

A. HOUSING

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 2.0 EARTH WORK													
A2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed:												
A2.1.1	All kinds of soil	100 sqm	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43	2644.43
A2.2	Earthwork in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8tonnes and dressing up in embankments, flood banks, marginal banks, guide banks or filling up ground depressions, lead upto 50m and lift upto 1.5m.												
A2.2.1	All kinds of soil	cum	185.88	185.88	185.88	185.88	185.88	185.88	185.88	185.88	185.88	185.88	185.88
A2.3	Banking excavated earth in layers not exceeding 20 cm. in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc.. lead upto 50 m and lift upto 1.5 m.												
A2.3.1	All kinds of soil	cum	130.33	130.33	130.33	130.33	130.33	130.33	130.33	130.33	130.33	130.33	130.33
A2.4	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	cum	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34
A2.5	Deduct for not watering the excavated earth for banking.	cum	9.66	9.66	9.66	9.66	9.66	9.66	9.66	9.66	9.66	9.66	9.66
A2.6	Earth work in excavation over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed.												
A2.6.1	All kinds of soil	cum	181.13	181.13	181.13	181.13	181.13	181.13	181.13	181.13	181.13	181.13	181.13
A2.7	Earth work in excavation over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.												
A2.7.1	Ordinary rock.	cum	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00	270.00
A2.7.2	Hard rock (requiring blasting).	cum	380.50	380.50	380.50	380.50	380.50	380.50	380.50	380.50	380.50	380.50	380.50
A2.7.3	Hard rock (blasting prohibited).	cum	396.91	396.91	396.91	396.91	396.91	396.91	396.91	396.91	396.91	396.91	396.91

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A2.8	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.												
A2.8.1	All kinds of soil.	cum	179.01	179.01	179.01	179.01	179.01	179.01	179.01	179.01	179.01	179.01	179.01
A2.9	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.												
A2.9.1	Ordinary rock.	cum	286.77	286.77	286.77	286.77	286.77	286.77	286.77	286.77	286.77	286.77	286.77
A2.9.2	Hard rock (requiring blasting).	cum	406.80	406.80	406.80	406.80	406.80	406.80	406.80	406.80	406.80	406.80	406.80
A2.9.3	Hard rock (Blasting Prohibited).	cum	430.53	430.53	430.53	430.53	430.53	430.53	430.53	430.53	430.53	430.53	430.53
A2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:												
A2.10.1	All kinds of soil.												
A2.10.1.1	Pipes, cables etc, not exceeding 80mm dia.	metre	124.86	124.86	124.86	124.86	124.86	124.86	124.86	124.86	124.86	124.86	124.86
A2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	204.32	204.32	204.32	204.32	204.32	204.32	204.32	204.32	204.32	204.32	204.32
A2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600mm	metre	301.26	301.26	301.26	301.26	301.26	301.26	301.26	301.26	301.26	301.26	301.26
A2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	metre	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58
A2.12	Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	metre	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54

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A2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layers by ramming, watering etc. stacking serviceable material for measurement and disposal of unserviceable material as directed, within a lead of 50m:												
A2.13.1	Ordinary rock												
A2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	185.06	185.06	185.06	185.06	185.06	185.06	185.06	185.06	185.06	185.06	185.06
A2.13.1.2	Pipes, cables etc exceeding 80mm dia but not exceeding 300mm	metre	322.46	322.46	322.46	322.46	322.46	322.46	322.46	322.46	322.46	322.46	322.46
A2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600mm dia	metre	356.90	356.90	356.90	356.90	356.90	356.90	356.90	356.90	356.90	356.90	356.90
A2.13.2	Hard rock (requiring blasting)												
A2.13.2.1	Pipes, cables etc. not exceeding 80 mm dia	metre	228.11	228.11	228.11	228.11	228.11	228.11	228.11	228.11	228.11	228.11	228.11
A2.13.2.2	Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm	metre	351.43	351.43	351.43	351.43	351.43	351.43	351.43	351.43	351.43	351.43	351.43
A2.13.2.3	Pipes, cables exceeding 300mm dia but not exceeding 600mm dia	metre	597.44	597.44	597.44	597.44	597.44	597.44	597.44	597.44	597.44	597.44	597.44
A2.13.3	Hard rock (blasting prohibited)												
A2.13.3.1	Pipes, cables etc. not exceeding 80mm dia.	metre	378.64	378.64	378.64	378.64	378.64	378.64	378.64	378.64	378.64	378.64	378.64
A2.13.3.2	Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm	metre	510.68	510.68	510.68	510.68	510.68	510.68	510.68	510.68	510.68	510.68	510.68
A2.13.3.3	Pipes, cables exceeding 300mm dia but not exceeding 600mm dia	metre	583.02	583.02	583.02	583.02	583.02	583.02	583.02	583.02	583.02	583.02	583.02
A2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary/ hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	metre	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
A2.15	Extra for excavating trenches for pipes, cables, etc. in ordinary/ hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	metre	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75
A2.16	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered):												
A2.16.1	Depth not exceeding 1.5 m.	sqm	113.72	113.63	113.63	113.63	113.63	113.63	113.63	113.63	113.63	113.63	113.63
A2.16.2	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	118.16	118.08	118.08	118.08	118.08	118.08	118.08	118.08	118.08	118.08	118.08
A2.16.3	Depth exceeding 3m but not exceeding 4.5m	sqm	119.51	119.42	119.42	119.42	119.42	119.42	119.42	119.42	119.42	119.42	119.42

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A2.17	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered):												
A2.17.1	Depth not exceeding 1.5 m.	sqm	112.38	112.38	112.38	112.38	112.38	112.38	112.38	112.38	112.38	112.38	112.38
A2.17.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	120.43	120.43	120.43	120.43	120.43	120.43	120.43	120.43	120.43	120.43	120.43
A2.17.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	129.03	129.03	129.03	129.03	129.03	129.03	129.03	129.03	129.03	129.03	129.03
A2.18	Close timbering over areas including strutting, shoring and packing, cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered)												
A2.18.1	Depth not exceeding 1.5 m.	sqm	96.78	96.78	96.78	96.78	96.78	96.78	96.78	96.78	96.78	96.78	96.78
A2.18.2	Depth exceeding 1.5m but not exceeding 3m	sqm	106.84	106.84	106.84	106.84	106.84	106.84	106.84	106.84	106.84	106.84	106.84
A2.18.3	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	111.62	111.54	111.54	111.54	111.54	111.54	111.54	111.54	111.54	111.54	111.54
A2.19	Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position (Face area of timber permanently left to be measured)	sqm	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49	1065.49
A2.20	Open timbering in trenches including strutting and shoring complete (Measurements to be taken of the face area timbered)												
A2.20.1	Depth not exceeding 1.5 m.	sqm	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
A2.20.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	59.95	59.95	59.95	59.95	59.95	59.95	59.95	59.95	59.95	59.95	59.95
A2.20.3	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	62.77	62.77	62.77	62.77	62.77	62.77	62.77	62.77	62.77		
A2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (measurements to be taken of the face area timbered):												
A2.21.1	Depth not exceeding 1.5 m.	sqm	49.42	49.42	49.42	49.42	49.42	49.42	49.42	49.42	49.42	49.42	49.42
A2.21.2	Depth exceeding 1.5 m but not exceeding 3 m	sqm	52.35	52.35	52.35	52.35	52.35	52.35	52.35	52.35	52.35	52.35	52.35
A2.21.3	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	56.15	56.01	56.01	56.01	56.01	56.01	56.01	56.01	56.01	56.01	56.01
A2.22	Open timbering over areas including strutting, shoring etc. complete (Measurements to be taken of the face area timbered):												
A2.22.1	Depth not exceeding 1.5.	sqm	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91
A2.22.2	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03
A2.22.3	Depth exceeding 3 m but not exceeding 4.5 m	sqm	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27	37.27

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A2.23	Extra for planking and strutting in open timbering if required to be left permanently in position (face area of the timber permanently left to be measured).	sqm	701.07	701.07	701.07	701.07	701.07	701.07	701.07	701.07	701.07	701.07	701.07
A2.24	Extra rate for quantities of works, executed.												
A2.24.1	In or under water and/or liquid mud, including pumping out water as required.	metre depth	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
	Note for item no. A2.24.1 :- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level upto the centre of gravity of the quantity executed in difficult conditions. The depth shall be reckoned correct to 0.1 metre, 0.05 metre or more shall be taken as 0.1 metre and less than 0.05 metre ignored.												
A2.24.2	In Foul position, including pumping out water as required	metre depth	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
	Note for item no. 2.24.2 :- This pertains to only such. Pumping of water as is envisaged at the time of tendering as don't include those that are covered under contractual risk												
A2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	cum	54.94	54.94	54.94	54.94	54.94	54.94	54.94	54.94	54.94	54.94	54.94
A2.26	Extra for every additional lift of 1.5 m or part thereof in:												
A2.26.1	All kinds of soil.	cum	28.98	28.98	28.98	28.98	28.98	28.98	28.98	28.98	28.98	28.98	28.98
A2.26.2	Ordinary or hard rock.	cum	42.26	42.26	42.26	42.26	42.26	42.26	42.26	42.26	42.26	42.26	42.26
A2.27	Supplying and filling in plinth with 100 mm thick Fine sand or stone dust under floors including, watering, ramming consolidating and dressing complete.	Sqm	169.88	169.88	169.88	169.88	169.88	169.88	169.88	169.88	169.88	169.88	169.88
A2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m												
A2.28.1	All kinds of soil.	100 sqm	629.71	629.71	629.71	629.71	629.71	629.71	629.71	629.71	629.71	629.71	629.71

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A2.29	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering												
A2.29.1	All kinds of soil	100 sqm	633.94	633.94	633.94	633.94	633.94	633.94	633.94	633.94	633.94	633.94	633.94
A2.30	Excavating holes upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil-, as directed within a lead of 50 m and lift upto 1.5 m:												
A2.30.1	All kinds of soil	each	108.08	108.08	108.08	108.08	108.08	108.08	108.08	108.08	108.08	108.08	108.08
A2.30.2	Ordinary rock	each	173.14	173.14	173.14	173.14	173.14	173.14	173.14	173.14	173.14	173.14	173.14
A2.30.3	Hard rock (requiring blasting)	each	245.61	245.61	245.61	245.61	245.61	245.61	245.61	245.61	245.61	245.61	245.61
A2.30.4	Hard rock (blasting prohibited)	each	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93	259.93
A2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 sqm	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10
A2.32	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 sqm	190.18	190.18	190.18	190.18	190.18	190.18	190.18	190.18	190.18	190.18	190.18
A2.33	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material:												
A2.33.1	Beyond 30 cm girth upto and including 60 cm girth	each	105.66	105.66	105.66	105.66	105.66	105.66	105.66	105.66	105.66	105.66	105.66
A2.33.2	Beyond 60 cm girth upto and including 120 cm girth	each	449.79	449.79	449.79	449.79	449.79	449.79	449.79	449.79	449.79	449.79	449.79
A2.33.3	Beyond 120 cm girth upto and including 240 cm girth	each	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38	1992.38
A2.33.4	Above 240 cm girth	each	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71	3978.71
A2.34	Supplying chemical emulsion in sealed containers including delivery as specified.												
A2.34.1	Chlorpyrifos/Lindane emulsifiable concentrate of 20%	litre	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38

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A2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion)												
A2.35.1	Along external wall where the apron is not provided using chemical imulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:												
A2.35.1.1	With Chlorpyriphos/Lindane E.C. 20% with 1 concentration	metre	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35
A2.35.2	Along external wall below the concrete or masonry apron using chemical emulsion @2.25 litres per meter including drilling and plugging holes etc												
A2.35.2.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	metre	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45
A2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor.												
A2.35.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	sqm	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74
A2.35.4	Treatment of existing masonry using chemical emulsion@ one litre per hole at 300mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2(1 cement : 2 coarse sand) to the full depth of the hole.												
A2.35.4.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	metre	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49	14.49
A2.35.5	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos./Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same.	metre	133.31	133.31	133.31	133.31	133.31	133.31	133.31	133.31	133.31	133.31	133.31
A2.36	Detuct for Disposed soil not levelled and neatly dressed (Againsts item 2.6 & 2.7)	cum	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25

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3.0 MORTARS													
A3.1	Cement mortar 1 : 1 (1 cement : 1 fine sand)	cum	10536.85	8723.09	10536.85	12020.84	14164.37	13669.71	10701.74	14659.03	10701.74	13010.16	16967.45
A3.2	Cement mortar 1 : 2 (1 cement : 2 fine sand)	cum	8057.38	6074.17	8057.38	9680.01	12023.80	11482.93	8237.68	12564.68	8237.68	10761.76	15088.77
A3.3	Cement mortar 1 : 3 (1 cement : 3 fine sand)	cum	7187.20	5219.05	7187.20	8797.50	11123.50	10586.73	7366.12	11660.27	7366.12	9871.04	14165.18
A3.4	Cement mortar 1 : 4 (1 cement : 4 fine sand)	cum	5836.66	4161.87	5836.66	7206.94	9186.24	8729.48	5988.92	9643.00	5988.92	8120.47	11774.55
A3.5	Cement mortar 1 : 5 (1 cement : 5 fine sand)	cum	5314.59	3574.53	5314.59	6738.28	8794.71	8320.15	5472.78	9269.27	5472.78	7687.40	11483.90
A3.6	Cement mortar 1 : 6 (1 cement : 6 fine sand)	cum	4797.82	3051.30	4797.82	6226.78	8290.85	7814.52	4956.59	8767.17	4956.59	7179.43	10990.01
A3.7	Cement mortar 1 : 2 (1 cement : 2 coarse sand)	cum	8840.99	6857.78	8840.99	10463.61	12807.41	12266.53	9021.28	13348.28	9021.28	11545.36	15872.37
A3.8	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	cum	8019.70	6051.55	8019.70	9630.00	11955.99	11419.23	8198.62	12492.76	8198.62	10703.54	14997.68
A3.9	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	cum	6537.78	4862.99	6537.78	7908.06	9887.36	9430.60	6690.03	10344.12	6690.03	8821.58	12475.67
A3.10	Cement mortar 1 : 5 (1 cement : 5 coarse sand)	cum	6073.45	4333.39	6073.45	7497.13	9553.57	9079.01	6231.63	10028.13	6231.63	8446.26	12242.75
A3.11	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	cum	5581.42	3834.90	5581.42	7010.38	9074.45	8598.13	5740.19	9550.77	5740.19	7963.03	11773.61
A3.12	Cement mortar 1 : 3 (1 cement : 3 Stone dust)	cum	6519.94	6168.49	6519.94	6807.50	7222.85	7127.00	6551.90	7318.71	6551.90	6999.20	7766.01
A3.13	Cement mortar 1 : 4 (1 cement : 4 Stone dust)	cum	5626.09	5353.53	5626.09	5849.09	6171.20	6096.87	5650.86	6245.53	5650.86	5997.75	6592.42
A3.14	Cement mortar 1 : 5 (1 cement : 5 Stone dust)	cum	4942.35	4720.00	4942.35	5124.27	5387.04	5326.40	4962.56	5447.68	4962.56	5245.55	5730.67
A3.15	Cement mortar 1 : 6 (1 cement : 6 Stone dust)	cum	4356.28	4176.97	4356.28	4502.99	4714.91	4666.01	4372.58	4763.81	4372.58	4600.80	4992.03

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	4.0 CONCRETE WORK												
	CEMENT CONCRETE (CAST-IN-SITU)												
A4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering												
A4.1.1	1 : 1 : 2 (1 Cement : 1 coarse sand : 2 stone aggregate 20mm)	cum	8231.92	7191.46	8231.92	9083.21	10312.84	10029.08	8326.51	10596.60	8326.51	9650.73	11920.82
A4.1.2	1 : 1.5 : 3 (1 Cement : 1.5 coarse sand : 3 stone aggregate 20mm)	cum	7495.67	6491.65	7495.67	8317.14	9503.70	9229.88	7586.94	9777.52	7586.94	8864.78	11055.36
A4.1.3	1:2:4 (1 Cement :2 coarse sand : 4 stone aggregate 20 mm)	cum	6832.74	5853.51	6832.74	7633.93	8791.21	8524.15	6921.76	9058.27	6921.76	8168.06	10304.57
A4.1.4	1:2:4 (1 Cement : 2 coarse sand : 4 stone aggregate 40 mm)	cum	6752.30	5773.06	6752.30	7553.49	8710.76	8443.70	6841.32	8977.83	6841.32	8087.62	10224.13
A4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 stone aggregate 20 mm)	cum	6054.66	5106.40	6054.66	6830.50	7951.17	7692.56	6140.86	8209.79	6140.86	7347.74	9416.66
A4.1.6	1:3:6 (1 Cement : 3 coarse sand : 6 stone aggregate 40 mm)	cum	5818.93	4870.67	5818.93	6594.77	7715.44	7456.83	5905.13	7974.06	5905.13	7112.00	9180.93
A4.1.7	1:3:6 (1 Cement : 3 fine sand : 6 stone aggregate 40 mm)	cum	5424.97	4476.72	5424.97	6200.82	7321.49	7062.87	5511.18	7580.10	5511.18	6718.05	8786.98
A4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 stone aggregate 40 mm)	cum	5456.20	4544.39	5456.20	6202.23	7279.83	7031.15	5539.09	7528.50	5539.09	6699.58	8688.99
A4.1.9	1:4:8 (1 Cement : 4 fine sand : 8 stone aggregate 40 mm)	cum	5062.25	4150.43	5062.25	5808.28	6885.87	6637.20	5145.14	7134.55	5145.14	6305.63	8295.04
A4.1.10	1:5:10 (1 cement: 5 coarse sand :10 stone aggregate 40mm)	cum	5059.16	4176.51	5059.16	5781.34	6824.48	6583.76	5139.41	7065.21	5139.41	6262.79	8188.59
A4.1.11	1:5:10 (1 cement : 5 fine sand : 10 stone aggregate 40 mm)	cum	4665.21	3782.55	4665.21	5387.39	6430.53	6189.80	4745.45	6671.25	4745.45	5868.84	7794.64
A4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto a floor five level, excluding the cost of centering, shuttering and finishing.												
A4.2.1	1:1:2 (1 Cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	8252.78	7212.32	8252.78	9104.07	10333.70	10049.94	8347.37	10617.46	8347.37	9671.59	11941.68
A4.2.2	1:1.5:3 (1 Cement:1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	7516.53	6512.51	7516.53	8338.00	9524.56	9250.74	7607.80	9798.38	7607.80	8885.64	11076.22
A4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	6853.60	5874.37	6853.60	7654.79	8812.07	8545.01	6942.62	9079.13	6942.62	8188.92	10325.43
A4.2.4	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	6773.16	5793.92	6773.16	7574.35	8731.62	8464.56	6862.18	8998.69	6862.18	8108.48	10244.99
A4.2.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	6026.44	5078.18	6026.44	6802.28	7922.95	7664.33	6112.64	8181.57	6112.64	7319.51	9388.44
A4.2.6	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	5924.27	4976.01	5924.27	6700.12	7820.78	7562.17	6010.47	8079.40	6010.47	7217.35	9286.27
A4.2.7	1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	6697.76	5607.38	6697.76	7589.90	8878.54	8581.16	6796.89	9175.91	6796.89	8184.65	10563.68

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A4.3	Centering and shuttering including strutting, propping etc. and removal of form work for												
A4.3.1	Foundations, footings, bases of Columns	sqm	165.24	165.24	165.24	165.24	165.24	165.24	165.24	165.24	165.24	165.24	165.24
A4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets etc.	sqm	274.21	274.21	274.21	274.21	274.21	274.21	274.21	274.21	274.21	274.21	274.21
A4.3.3	Columns, piers, abutments, pillars, posts and struts.	sqm	351.95	351.95	351.95	351.95	351.95	351.95	351.95	351.95	351.95	351.95	351.95
A4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing												
A4.4.1	1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm)	cum	6832.74	5853.51	6832.74	7633.93	8791.21	8524.15	6921.76	9058.27	6921.76	8168.06	10304.57
A4.4.2	1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm)	cum	6054.66	5106.40	6054.66	6830.50	7951.17	7692.56	6140.86	8209.79	6140.86	7347.74	9416.66
	CEMENT CONCRETE (PRECAST)												
A4.5	Providing and fixing upto floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 cement: 3 coarse sand), cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete.												
A4.5.1	1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size)	cum	8321.70	7132.71	8321.70	9294.51	10699.69	10375.42	8429.79	11023.96	8429.79	9943.06	12537.22
A4.5.2	1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 20 mm nominal size)	cum	7317.35	6165.97	7317.35	8259.39	9620.11	9306.10	7422.02	9934.12	7422.02	8887.41	11399.52
A4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3(1 cement: 3 coarse sand) including the cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete.												
A4.6.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	8284.91	7097.56	8284.91	9256.38	10659.62	10335.79	8392.85	10983.44	8392.85	9904.03	12494.61

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A4.7	Providing and fixing upto floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1cement : 3 coarse sand), cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete.												
	A4.7.1 1:2:4 (1 cement: 2 coarse sand: 4graded stone aggregate 20 mm nominal size)	cum	9321.35	8134.00	9321.35	10292.82	11696.05	11372.23	9429.29	12019.88	9429.29	10940.47	13531.05
	A4.7.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	cum	8045.56	6900.54	8045.56	8982.40	10335.60	10023.32	8149.65	10647.88	8149.65	9606.95	12105.18
A4.8	Precasting and placing in position 125mm dia Bollards 600mm high of required shape including providing M.S. Pipe Sleeve 50mm dia 300mm long in the Bollard and M.S. Pipes 40mm dia and 450mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150 in cement concrete 1:3:6 (1cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size) including necessary excavation of size 250x250x450mm deep for the same in bitumen/concrete pavement at specified spacing.	each	616.19	559.54	616.19	661.57	729.48	714.34	621.81	744.62	621.81	693.59	816.37
	DAMP-PROOF COURSE												
A4.9	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm).	sq. m.	223.49	191.56	223.49	249.61	287.34	278.63	226.39	296.05	226.39	267.02	336.68
A4.10	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm).	sq.m.	265.63	230.16	265.63	294.65	336.57	326.90	268.85	346.25	268.85	314.00	391.40
A4.11	Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work @ 1 kg per 50kg of cement.	per bag of 50kg. of cement	54.34	54.34	54.34	54.34	54.34	54.34	54.34	54.34	54.34	54.34	54.34
A4.12	Applying a coat of residual petroleum bitumen of penetration 80/ 100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	sqm.	64.11	59.89	64.11	67.28	72.56	71.50	64.64	73.61	64.64	69.92	78.89

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	MISCELLANEOUS												
A4.13	Extra for concrete work in superstructure above floor V level for each four floors or par thereof	cum	362.25	362.25	362.25	362.25	362.25	362.25	362.25	362.25	362.25	362.25	362.25
A4.14	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	per cum per metre depth.	265.94	265.94	265.94	265.94	265.94	265.94	265.94	265.94	265.94	265.94	265.94
	Note for item No. A4.14 : - The quantity will be calculated by multiplying the depth measured from the sub-soil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1m, 0.05m or more shall be taken as 0.1m and less than 0.05m ignored.												
A4.15	Extra for laying concrete in or under foul positions	cum	109.28	109.28	109.28	109.28	109.28	109.28	109.28	109.28	109.28	109.28	109.28
A4.16	Extra for using 12.5/10 mm nominal size graded/single size stone aggregate instead of 20mm nominal size graded stone aggregate in cement concrete/reinforced cement concrete 1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	5.0 REINFORCED CEMENT CONCRETE												
	CAST-IN-SITU												
A5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level												
A5.1.1	1:1:2 (1 cement : 1 coarse sand : 2 stone aggregate 20 mm)	cum	8342.36	7301.90	8342.36	9193.64	10423.28	10139.51	8436.94	10707.04	8436.94	9761.16	12031.26
A5.1.2	1:1.5:3 (1cement :1.5coarse sand : 3 stone aggregate 20mm)	cum	7593.83	6589.82	7593.83	8415.30	9601.86	9328.04	7685.11	9875.69	7685.11	8962.94	11153.52
A5.1.3	1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm)	cum	6998.39	6019.16	6998.39	7799.59	8956.86	8689.80	7087.42	9223.93	7087.42	8333.71	10470.22
A5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement.												
A5.2.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20mm)	cum	8990.04	7856.78	8990.04	9917.25	11256.55	10947.48	9093.06	11565.63	9093.06	10535.39	13007.95
A5.2.2	1:1.5:3(1cement : 1.5coarse sand: 3graded stone aggregate 20mm)	cum	7744.79	6740.77	7744.79	8566.25	9752.82	9478.99	7836.06	10026.64	7836.06	9113.90	11304.48
A5.2.3	1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm)	cum	7081.86	6102.63	7081.86	7883.05	9040.33	8773.26	7170.88	9307.39	7170.88	8417.18	10553.69
A5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands. plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	7057.42	6085.48	7057.42	7852.65	9001.31	8736.24	7145.78	9266.39	7145.78	8382.80	10503.41
A5.4	Providing and laying upto floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	8298.83	7116.41	8298.83	9266.27	10663.69	10341.21	8406.33	10986.16	8406.33	9911.23	12491.07
A5.5	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1 : 2 : 4 (1 cement : 2 coarse sand ; 4 graded stone aggregate 20 mm nominal size)	cum	6832.11	5852.88	6832.11	7633.30	8790.57	8523.51	6921.13	9057.64	6921.13	8167.43	10303.93

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	FORM WORK												
A5.6	Centering and shuttering including strutting, propping etc. and removal of form for:												
A5.6.1	Using Timber												
A5.6.1.1	Foundations, footings, bases of columns for mass concrete.	Sqm	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32
A5.6.1.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21
A5.6.1.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85
A5.6.1.4	Shelves (Cast in situ)	Sqm	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85	352.85
A5.6.1.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	286.12	286.12	286.12	286.12	286.12	286.12	286.12	286.12	286.12	286.12	286.12
A5.6.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	425.10	425.10	425.10	425.10	425.10	425.10	425.10	425.10	425.10	425.10	425.10
A5.6.1.7	Stairs, (excluding landings) except spiral-staircases.	Sqm	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21
A5.6.1.8	Spiral staircases (including landing)	Sqm	316.90	316.90	316.90	316.90	316.90	316.90	316.90	316.90	316.90	316.90	316.90
A5.6.1.9	Arches, domes, vaults upto 6m span	Sqm	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05	1145.05
A5.6.1.10	Extra for arches, domes, vaults exceeding 6m span	Sqm	620.95	620.95	620.95	620.95	620.95	620.95	620.95	620.95	620.95	620.95	620.95
A5.6.1.11	Chimneys and shafts	Sqm	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21	333.21
A5.6.1.12	Well steining	Sqm	633.25	633.25	633.25	633.25	633.25	633.25	633.25	633.25	633.25	633.25	633.25
A5.6.1.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	Sqm	491.21	491.21	491.21	491.21	491.21	491.21	491.21	491.21	491.21	491.21	491.21
A5.6.1.14	Extra for shuttering in circular work (20% of respective centring and shuttering items)	Sqm	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
A5.6.1.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32	201.32
A5.6.1.16	Edges of slabs and breaks in floors and walls.												
A5.6.1.16.1	Under 20 cms wide	metre	98.25	98.25	98.25	98.25	98.25	98.25	98.25	98.25	98.25	98.25	98.25
A5.6.1.16.2	Above 20 cm wide	Sqm	412.12	412.12	412.12	412.12	412.12	412.12	412.12	412.12	412.12	412.12	412.12
A5.6.1.17	Cornices and mouldings	Sqm	456.21	456.21	456.21	456.21	456.21	456.21	456.21	456.21	456.21	456.21	456.21
A5.6.1.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like	Sqm	406.95	406.95	406.95	406.95	406.95	406.95	406.95	406.95	406.95	406.95	406.95
A5.6.1.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	405.69	405.69	405.69	405.69	405.69	405.69	405.69	405.69	405.69	405.69	405.69

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A5.6.2	Using Steel Sections												
A5.6.2.1	Foundations, footings, bases of columns for mass concrete.	Sqm	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19
A5.6.2.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89
A5.6.2.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57
A5.6.2.4	Shelves (Cast in situ)	Sqm	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57	317.57
A5.6.2.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	257.51	257.51	257.51	257.51	257.51	257.51	257.51	257.51	257.51	257.51	257.51
A5.6.2.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	382.59	382.59	382.59	382.59	382.59	382.59	382.59	382.59	382.59	382.59	382.59
A5.6.2.7	Stairs, (excluding landings) except spiral-staircases.	Sqm	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89
A5.6.2.8	Spiral staircases (including landing)	Sqm	285.21	285.21	285.21	285.21	285.21	285.21	285.21	285.21	285.21	285.21	285.21
A5.6.2.9	Arches, domes, vaults upto 6m span	Sqm	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55	1030.55
A5.6.2.10	Extra for arches, domes, vaults exceeding 6m span	Sqm	558.86	558.86	558.86	558.86	558.86	558.86	558.86	558.86	558.86	558.86	558.86
A5.6.2.11	Chimneys and shafts	Sqm	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89	299.89
A5.6.2.12	Well steining	Sqm	569.93	569.93	569.93	569.93	569.93	569.93	569.93	569.93	569.93	569.93	569.93
A5.6.2.13	Vertical and horizontal fins individually or forming box louvers band, fascias and eaves boards	Sqm	442.09	442.09	442.09	442.09	442.09	442.09	442.09	442.09	442.09	442.09	442.09
A5.6.2.14	Extra for shuttering in circular work (20% of respective centring and shuttering items)	Sqm	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
A5.6.2.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19	181.19
A5.6.2.16	Edges of slabs and breaks in floors and walls.												
A5.6.2.16.1	Under 20 cms wide	metre	88.43	88.43	88.43	88.43	88.43	88.43	88.43	88.43	88.43	88.43	88.43
A5.6.2.16.2	Above 20 cm wide	Sqm	370.91	370.91	370.91	370.91	370.91	370.91	370.91	370.91	370.91	370.91	370.91
A5.6.2.17	Cornices and mouldings	Sqm	410.59	410.59	410.59	410.59	410.59	410.59	410.59	410.59	410.59	410.59	410.59
A5.6.2.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like	Sqm	366.26	366.26	366.26	366.26	366.26	366.26	366.26	366.26	366.26	366.26	366.26
A5.6.2.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	365.12	365.12	365.12	365.12	365.12	365.12	365.12	365.12	365.12	365.12	365.12
A5.7	Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of engineer-in-charge												
A5.7.1	12 mm dia & 100 mm length	each set	181.03	173.88	181.03	186.39	195.33	193.54	181.92	197.11	181.92	190.86	206.05
A5.7.2	12 mm dia & 150 mm length	each set	189.56	181.93	189.56	195.28	204.82	202.92	190.52	206.73	190.52	200.05	216.27
A5.7.3	20 mm dia.& 150 mm length	each set	261.31	248.85	261.31	270.65	286.23	283.11	262.86	289.35	262.86	278.44	304.92
A5.7.4	20 mm dia & 225 mm length	each set	295.87	281.00	295.87	307.03	325.62	321.91	297.73	329.34	297.73	316.33	347.94

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A5.8	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).												
A5.8.1	Suspended floors, roofs, landing, beams and balconies	sqm	144.87	140.35	144.87	148.26	153.91	152.78	145.43	155.04	145.43	151.08	160.69
	PRE -CAST R.C.C.												
A5.9	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses, copings, anchor blocks plain window sills and the like including the cost of required centring, shuttering, finishing smooth with 6 mm thick cement plaster 1:3(1 cement:3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20mm size)	cum	10159.54	8723.84	10159.54	11334.21	13030.97	12639.41	10290.06	13422.52	10290.06	12117.33	15249.78
A5.10	Providing, hoisting and fixing upto floor five level precast RCC in small lintels not exceeding 1.5m clear span upto floor five level including the cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm)	cum	10151.31	8715.61	10151.31	11325.98	13022.74	12631.18	10281.83	13414.29	10281.83	12109.11	15241.55
A5.11	Providing, hoisting and fixing upto floor five level precast RCC in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3on exposed surfaces complete but excluding the cost of reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	10865.93	9430.22	10865.93	12040.60	13737.35	13345.80	10996.45	14128.91	10996.45	12823.72	15956.17
A5.12	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement: 3 coarse sand), cost of required centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm size)	cum	10571.70	9136.00	10571.70	11746.37	13443.13	13051.57	10702.22	13834.68	10702.22	12529.49	15661.94

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A5.13	Providing, hoisting and fixing upto floor five level precast RCC in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand) including the cost of required centring, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 on exposed surfaces complete but excluding the cost of reinforcement with 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	10365.37	8929.66	10365.37	11540.03	13236.79	12845.23	10495.89	13628.35	10495.89	12323.16	15455.61
A5.14	Providing, precast RCC Jali 1:2:4(1 cement:2 coarse sand: 4 stone aggregate 6mm nominal size) reinforced with 1.6mm dia mild steel wire including centring & shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 complete excluding plastering of the jambs, sills and soffits.												
A5.14.1	50 mm thick	sqm	569.62	552.23	569.62	582.66	604.39	600.05	571.79	608.74	571.79	593.53	630.48
A5.14.2	40 mm thick	sqm	498.21	484.21	498.21	508.72	526.23	522.73	499.97	529.73	499.97	517.47	547.24
A5.14.3	25 mm thick	sqm	452.73	441.14	452.73	461.43	475.92	473.02	454.18	478.81	454.18	468.67	493.30
	ENCASING ROLLED STEEL SECTION												
A5.15	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand :3 stone aggregate 12.5 mm nominal size) including centring and shuttering complete but excluding cost of reinforcement.	cum	9201.51	9033.08	10403.85	11525.38	13145.37	12771.53	10528.46	13519.21	10528.46	12273.07	15263.82
A5.16	Encasing rolled steel section in grillages with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand :3 stone aggregate 12.5 mm nominal size) including centring and shuttering but excluding cost of expanded metal and hangers.	cum	9085.28	7872.93	9085.28	10077.20	11509.97	11179.33	9195.49	11840.61	9195.49	10738.48	13383.60
A5.17	Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3 25 mm wide 1.6 mm thick weighing 3.64 kg. per sqm. for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.	sqm	408.09	379.83	408.09	429.29	464.62	457.55	411.63	471.68	411.63	446.95	507.01

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	STEEL REINFORCEMENT												
A5.18	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete .												
A5.18.1	Mild steel and medium tensile steel bars	Kg	68.96	67.99	68.96	69.75	70.89	70.63	69.05	71.15	69.05	70.27	72.38
A5.18.2	Hard drawn steel wire	Kg	92.70	86.06	92.70	97.68	105.97	104.31	93.53	107.63	93.53	101.82	115.93
A5.18.3	Cold twisted bars	Kg	76.07	70.77	76.07	80.05	86.67	85.35	76.73	87.99	76.73	83.36	94.62
A5.18.4	Hot rolled deformed bars (Tor)	Kg	77.28	71.98	77.28	81.25	87.88	86.55	77.94	89.20	77.94	84.57	95.83
	MISCELLANEOUS												
A5.19	Extra for RCC work in superstructure above floor V level for each four floors or part thereof.	cum	702.00	650.00	702.00	741.00	806.00	793.00	708.50	819.00	708.50	773.50	884.00
A5.20	Deduct for omitting in RCC work smooth finishing of the exposed surface with 6mm thick cement mortar 1:3(1 cement: 3 fine sand)	sqm	203.28	186.17	203.28	217.28	237.50	232.84	204.84	242.17	204.84	226.61	263.95
A5.21	Providing and fixing in position copper plate as per design for expansion joints.	kilogram	511.32	477.51	511.32	536.68	578.94	570.49	515.55	587.39	515.55	557.81	629.66
A5.22	Providing and filling in position bitumen mix filler of Proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubicmetre of coarse sand for expansion joints.	per cm depth per cm width per 100m	163.19	151.10	163.19	172.25	187.36	184.34	164.70	190.39	164.70	179.81	205.50
A5.23	Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	per cm depth per 100 m	189.25	175.23	189.25	199.76	217.29	213.78	191.00	220.79	191.00	208.52	238.31
A5.24	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.												
A5.24.1	Asbestos sheet 6 mm thick												
A5.24.1.1	150mm wide	metre	189.25	175.23	189.25	199.76	217.29	213.78	191.00	220.79	191.00	208.52	238.31
A5.24.1.2	200mm wide	metre	252.33	233.64	252.33	266.35	289.71	285.04	254.67	294.39	254.67	278.03	317.75
A5.24.2	Aluminium fluted strips 3.15 mm thick												
A5.24.2.1	150 mm wide.	metre	714.01	661.12	714.01	753.68	819.79	806.57	720.62	833.01	720.62	786.73	899.12
A5.24.2.2	200 mm wide.	metre	944.05	874.12	944.05	996.50	1083.91	1066.43	952.79	1101.39	952.79	1040.20	1188.80
A5.25	Add or deduct for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	metre	37.93	35.12	37.93	40.04	43.55	42.85	38.28	44.25	38.28	41.79	47.76

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A5.26	Extra for laying reinforced cement concrete in or under water and / or liquid mud including cost of pumping or bailing out water and removing slush etc., complete.	cum per metre depth	499.12	462.15	499.12	526.85	573.07	563.82	503.74	582.31	503.74	549.96	628.52
	Note For item No. A5.26 : The quantity will be calculated by multiplying the depth measured from the subsoil water level upto the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gavity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub-soil water conditions.												
A5.27	Extra for laying reinforced cement concrete in or under foul positions.	cum	197.05	182.45	197.05	207.99	226.24	222.59	198.87	229.89	198.87	217.12	248.13
	DESIGN MIX CONCRETE												
A5.28	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering, finishing and reinforcement. including Admixtures in recommended proportions.(as per IS 9103) to accelerate, retard setting of concrete improve workabilty without impairing strength and durability as per direction of Engineer-in-charge												
A5.28.1	All work upto plinth level	cum	7168.50	6241.15	7168.50	7926.54	9023.18	8770.50	7253.14	9275.86	7253.14	8433.17	10455.89
A5.28.2	All work from plinth level upto floor V level.	cum	7831.10	6854.68	7831.10	8625.96	9783.95	9519.00	7921.89	10048.90	7921.89	9163.26	11290.28
A5.28.3	Walls, columns, pillars, posts and struts	cum	7566.06	6609.27	7566.06	8346.20	9479.64	9219.60	7654.39	9739.69	7654.39	8871.22	10956.52
A5.28.4	Beams, plinth beams, girders, bressumers, cantilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.	cum	7301.02	6363.86	7301.02	8066.43	9175.33	8920.20	7386.89	9430.47	7386.89	8579.19	10622.77
A5.29	Extra for R.C.C. work above floor V level for each four floors	cum	653.40	605.00	653.40	689.70	750.20	738.10	659.45	762.30	659.45	719.95	822.80
A5.30	Add or deduct for providing richer or leaner mixes respectively at all floor levels												
A5.30.1	Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.	cum	356.63	330.21	356.63	376.44	409.46	402.86	359.93	416.06	359.93	392.95	449.09
A5.30.2	Providing M-30 grade R.C.C. instead of M-20 grade R.C.C.	cum	488.29	452.12	488.29	515.42	560.63	551.59	492.81	569.67	492.81	538.02	614.88
A5.30.3	Providing M-35 grade R.C.C. instead of M-20 grade R.C.C.	cum	593.15	549.21	593.15	626.10	681.02	670.04	598.64	692.00	598.64	653.56	746.93

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	6.0 BRICK WORK WITH F.P.S. BRICKS												
A6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in												
A6.1.1	Cement mortar 1:4 (1 cement : 4 fine sand)	cum	5872.03	4151.39	5872.03	7279.83	9313.32	8844.05	6028.46	9782.58	6028.46	8218.37	11972.49
A6.1.2	Cement mortar 1:5 (1 cement : 5 fine sand)	cum	5557.78	3888.35	5557.78	6923.68	8896.65	8441.35	5709.55	9351.95	5709.55	7834.28	11476.68
A6.1.3	Cement mortar 1:6 (1 cement : 6 fine sand)	cum	5446.68	3776.31	5446.68	6813.34	8787.41	8331.86	5598.53	9242.97	5598.53	7724.45	11368.89
A6.1.4	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5999.02	4278.38	5999.02	7406.82	9440.31	8971.04	6155.45	9909.58	6155.45	8345.35	12099.48
A6.1.5	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5560.22	3889.86	5560.22	6926.89	8900.96	8445.40	5712.07	9356.51	5712.07	7838.00	11482.43
A6.2	Extra for brick work in superstructure above plinth level upto floor V level.	cum	762.69	540.82	762.69	944.21	1206.42	1145.91	782.86	1266.93	782.86	1065.23	1549.30
A6.3	Extra for brick work in superstructure above floor V level for each four floors or part thereof.	cum	611.62	427.88	611.62	761.96	979.11	928.99	628.33	1029.22	628.33	862.18	1263.07
A6.4	Extra for brick work in												
A6.4.1	Square or rectangular pillars.	cum	389.22	272.29	389.22	484.88	623.07	591.18	399.84	654.96	399.84	548.66	803.77
A6.5	Extra for brick work with bricks of class designation 75 curved on plan upto a mean radius not exceeding 6 metres.	cum	611.62	427.88	611.62	761.96	979.11	928.99	628.33	1029.22	628.33	862.18	1263.07
A6.6	Extra for cutting or chamfering of bricks to required shape in masonry work.	metre	18.35	12.84	18.35	22.86	29.37	27.87	18.85	30.88	18.85	25.87	37.89
A6.7	Constructing tharry with bricks of class designation 75 laid on edge in cement mortar 1:4 (1 cement : 4 coarse sand), cement pointing 1: 2 (1 cement: 2 fine sand) including necessary excavation and 10 cm bed of cement concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) complete.	sqm	1556.86	1089.16	1556.86	1939.53	2492.27	2364.71	1599.38	2619.82	1599.38	2194.64	3215.08
A6.8	Extra for forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M S. ties 300 mm long of 25mm x 3mm section at not less than 3 ties per sqm as per approved design.	sqm	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00
A6.9	Providing half brick masonry with bricks of class designation 75 in cement mortar 1:3 (1 cement: 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10 cm / 11.4 cm wide bitumen felt type 3 grade 1.	metre	255.32	255.32	255.32	255.32	255.32	255.32	255.32	255.32	255.32	255.32	255.32
A6.10	Brick work 7 cm thick with bricks of class designation 75 in cement mortar 1:3(1 Cement : 3 coarse sand) in superstructure	sqm	551.68	551.68	551.68	551.68	551.68	551.68	551.68	551.68	551.68	551.68	551.68

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A6.11	Brick work in plain arches in superstructure including centring and shuttering complete for span upto 6 metres with bricks of class designation 75 in cement mortar 1:3 (1 cement : 3 coarse sand)	cum	7046.44	4981.67	7046.44	8735.80	11175.98	10612.86	7234.15	11739.10	7234.15	9862.04	14366.99
A6.12	Brick work in gauged arches in superstructure in cement mortar 1:3 (1 cement : 3 coarse sand) including centring and shuttering complete, for span upto 6 metres with bricks of lass designation 75:	cum	9042.93	6393.14	9042.93	11210.94	14342.51	13619.84	9283.83	15065.17	9283.83	12656.29	18437.63
A6.13	Extra for additional cost of centring for arches exceeding 6 m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).	sqm	633.00	447.52	633.00	784.77	1003.98	953.39	649.87	1054.56	649.87	885.94	1290.63
	HALF BRICK MASONRY												
A6.14	Half brick masonry with bricks of class designation 75 in foundations and plinth in												
A6.14.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	645.92	456.65	645.92	800.78	1024.47	972.85	663.13	1076.08	663.13	904.02	1316.97
A6.14.2	Cement mortar 1:4(1 cement : 4 coarse sand)	sqm	594.25	420.12	594.25	736.72	942.51	895.02	610.08	990.00	610.08	831.70	1211.62
A6.15	Extra for half Brick masonry in superstructure above plinth level upto floor V level.	sqm	74.75	74.75	74.75	74.75	74.75	74.75	74.75	74.75	74.75	74.75	74.75
A6.16	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof	sqm	59.80	59.80	59.80	59.80	59.80	59.80	59.80	59.80	59.80	59.80	59.80
A6.17	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	sqm	67.28	67.28	67.28	67.28	67.28	67.28	67.28	67.28	67.28	67.28	67.28
A6.18	Providing brick band 10 cm / 7.0 cm thick 5 cm / 5.7 cm projected from wall face, in bricks of class designation 75 laid in cement mortar 1:4(1 cement : 4 coarse sand)	metre	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53
	MOULDING AND CORNICES												
A6.19	Providing 10cm/7.0cm thick and 5cm/5.7cm projected string course with bricks of class designation 75 in cement mortar 1:4 (1 cement: 4 coarse sand)	metre	31.25	31.25	31.25	31.25	31.25	31.25	31.25	31.25	31.25	31.25	31.25
A6.20	Moulding and cornices with brick masonry in cement mortar 1:4 (1 cement : 4 coarse sand) (girth to be measured in cm and length in running metre.	per metre per cm. girth	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A6.21	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	per cum per metre depth	310.38	310.38	310.38	310.38	310.38	310.38	310.38	310.38	310.38	310.38	310.38
A6.22	Extra for laying brick work in or under foul position	cum	123.95	123.95	123.95	123.95	123.95	123.95	123.95	123.95	123.95	123.95	123.95
	EXPOSED BRICK WORK												
A6.23	Brick work with selected F.P.S. bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement : 6 fine sand).	cum	4902.01	3398.68	4902.01	6132.01	7908.67	7498.67	5038.68	8318.67	5038.68	6952.01	10232.00
A6.24	Brick work with modular bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement : 6 fine sand).	cum	4607.89	3194.76	4607.89	5764.09	7434.15	7048.75	4736.36	7819.55	4736.36	6534.88	9618.08
A6.25	Brick work with selected F.P.S. bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement : 6 coarse sand).	cum	5838.23	4084.35	5838.23	7273.23	9346.01	8867.67	5997.67	9824.34	5997.67	8229.90	12056.55
A6.26	Extra for exposed brick work in superstructure above plinth level and upto floor five level.	cum	583.82	408.44	583.82	727.32	934.60	886.77	599.77	982.43	599.77	822.99	1205.66

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
7.0 STONEMASONRY													
RANDOM RUBBLE MASONRY													
A7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 at plinth level with :												
A7.1.1	Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	4333.39	3848.34	4333.39	4730.25	5303.49	5171.20	4377.48	5435.78	4377.48	4994.82	6053.11
A7.1.2	Cement mortar 1:6 (1 cement: 6 fine sand)	cum	3930.40	3529.70	3930.40	4258.23	4731.78	4622.50	3966.82	4841.06	3966.82	4476.80	5351.04
A7.2	Extra for random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 at window sills, ceiling level and the like.	cum	863.97	863.97	863.97	863.97	863.97	863.97	863.97	863.97	863.97	863.97	863.97
A7.3	Extra for random rubble masonry with hard stone in superstructure above floor V level for every four floors	cum	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60
A7.4	Extra for random rubble masonry with hard stone in:												
A7.4.1	Square or rectangular pillars	cum	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10	338.10
A7.4.2	Circular pillars.	cum	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94	1177.94
A7.5	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m	cum	435.06	435.06	435.06	435.06	435.06	435.06	435.06	435.06	435.06	435.06	435.06
COURSED RUBBLE MASONRY													
A7.6	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with:												
A7.6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4587.63	3786.24	4587.63	5243.31	6190.41	5971.85	4660.48	6408.97	4660.48	5680.43	7428.92
A7.6.2	Cement mortar 1:6 (1 cement : 6 fine sand)	cum	3869.99	3448.21	3869.99	4215.09	4713.56	4598.53	3908.34	4828.59	3908.34	4445.15	5365.41
A7.7	Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.	cum	655.67	655.67	655.67	655.67	655.67	655.67	655.67	655.67	655.67	655.67	655.67
A7.8	Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above floor V level for every four floors or part thereof .	cum	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60	579.60
A7.9	Extra for coursed rubble masonry with hard stone (first or second sort) in												
A7.9.1	Square or rectangular pillars	cum	365.87	365.87	365.87	365.87	365.87	365.87	365.87	365.87	365.87	365.87	365.87
A7.9.2	Circular pillars	cum	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51	1125.51
A7.10	Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.	cum	400.65	400.65	400.65	400.65	400.65	400.65	400.65	400.65	400.65	400.65	400.65

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	8.0 WOODWORK												
	FRAMES AND TRUSSES												
A8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position:												
A8.1.1	Teak wood	cum	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30	46552.30
A8.1.2	Seasoned and chemically treated hollock wood, Koroi, Titachap, Bhola	cum	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30	39307.30
A8.1.3	Second Class wood	cum	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05	35081.05
A8.2	Providing laminated veneer lumber conforming to TADS 15:1995, manufactured in factories by approved manufacturers, in frames of doors, windows, clerestory windows and others, wrought framed and fixed in position as per directions of the Engineer	cum	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21	65459.21
A8.3	Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position:												
A8.3.1	Seasoned and chemically treated hollock wood, Koroi, etc	cum	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85	39272.85
A8.3.2	Second Class wood	cum	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63	34755.63
A8.4	Extra for additional labour for circular works, such as in columns, frames of fan light												
A8.4.1	Teak wood	cum	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23	4655.23
A8.4.2	Seasoned and chemically treated hollock wood, Koroi, etc	cum	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80	3949.80
A8.4.3	Second Class wood	cum	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01	3095.01
A8.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately. 30 mm												
A8.5.1	Teak wood	Sqm	2378.56	2348.54	2378.56	2401.07	2438.58	2431.08	2382.31	2446.09	2382.31	2419.83	2483.61
A8.5.2	Seasoned and chemically treated hollock wood, Koroi, etc	Sqm	1973.82	1943.81	1973.82	1996.33	2033.85	2026.35	1977.57	2041.35	1977.57	2015.09	2078.87
A8.5.3	Second Class wood	Sqm	1424.86	1394.84	1424.86	1447.37	1484.88	1477.38	1428.61	1492.39	1428.61	1466.12	1529.90
A8.6	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately. 35 mm												
A8.6.1	Teak wood	Sqm	2505.74	2475.72	2505.74	2528.25	2565.76	2558.26	2509.49	2573.27	2509.49	2547.00	2610.78
A8.6.2	Seasoned and chemically treated hollock wood, Koroi, etc	Sqm	2077.52	2047.51	2077.52	2100.03	2137.55	2130.04	2081.27	2145.05	2081.27	2118.79	2182.57
A8.6.3	Second Class wood	Sqm	1514.86	1484.84	1514.86	1537.37	1574.89	1567.38	1518.61	1582.39	1518.61	1556.13	1619.91

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.7	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding, panelling which will be paid for separately. 40 mm												
A8.7.1	Teak wood	Sqm	2618.94	2588.92	2618.94	2641.45	2678.97	2671.46	2622.69	2686.47	2622.69	2660.21	2723.99
A8.7.2	Seasoned and chemically treated hollock wood, Koroi, etc	Sqm	2160.54	2130.52	2160.54	2183.05	2220.56	2213.06	2164.29	2228.07	2164.29	2201.81	2265.58
A8.7.3	Second Class wood	Sqm	1563.49	1533.48	1563.49	1586.00	1623.52	1616.02	1567.25	1631.03	1567.25	1604.76	1668.54
A8.8	Providing and fixing 35 mm thick laminated veneer lumber door shutter conforming to TADS 15:1995, manufactured in factories by approved manufacturers, including ISI marked black enamelled M.S. butt hinges with necessary screws as per directions of Engineer-incharge and panelling with panels of :												
A8.8.1	12mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I (like Novapan, Ecoboard..) or graded wood particle board FPT - I (like Bhutan Board) IS : 3087 marked bonded with BWP type synthetic resin adhesive as per IS : 848	Sqm	2944.70	2738.75	2944.70	3099.16	3356.60	3305.11	2970.45	3408.09	2970.45	3227.88	3665.53
A8.8.2	12 mm thick prelaminated (with particle board decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I (like Novapan, Ecoboard etc..) or graded wood particle board FPT - I (like Bhutan Board) IS : 3087 marked bonded with BWP type synthetic resin adhesive as per IS : 848 and prelamination conforming to IS : 12823 Grade 1, Type II.	Sqm	3207.25	2980.05	3207.25	3377.65	3661.65	3604.85	3235.65	3718.45	3235.65	3519.65	4002.46
A8.8.3	12 mm thick one side prelaminated (with particle board decorative lamination on other sides) and balancing lamination grade - 1 medium density flat pressed, three layer particle board FPT - I (like Novapan, Ecoboard etc..) or graded wood particle board FPT-1 (like Bhutan Board) IS : 3087 marked bonded with BWP type synthtic resin adhesive as per IS : 848 and prelamination conforming to IS: 12823 Grade 1, Type II.	Sqm	3511.99	3264.01	3511.99	3697.96	4007.93	3945.93	3542.98	4069.92	3542.98	3852.94	4379.88

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.9	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick												
A8.9.1	Teak wood	Sqm	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97	1863.97
A8.9.2	Seasoned and chemically treated hollock wood, Koroi, etc	Sqm	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12	1281.12
A8.9.3	Second Class wood	Sqm	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82	1253.82
A8.9.4	Commercial Ply wood 6mm thick	Sqm	295.42	277.54	295.42	308.83	331.18	326.71	297.66	335.65	297.66	320.01	358.00
A8.9.5	Commercial Ply wood 12mm thick	Sqm	388.85	364.05	388.85	407.45	438.45	432.25	391.95	444.65	391.95	422.95	475.65
A8.9.6	Commercial Ply wood 19 mm thick	Sqm	513.42	479.40	513.42	538.94	581.47	572.97	517.68	589.98	517.68	560.21	632.51
A8.9.7	Waterproof Ply wood 6mm thick	Sqm	342.14	320.80	342.14	358.14	384.81	379.48	344.80	390.15	344.80	371.48	416.82
A8.9.8	Waterproof Ply wood 12mm thick	Sqm	466.71	436.14	466.71	489.63	527.84	520.20	470.53	535.48	470.53	508.74	573.69
A8.9.9	Waterproof Ply wood 19 mm thick	Sqm	567.92	529.86	567.92	596.47	644.05	634.53	572.68	653.56	572.68	620.26	701.14
A8.9.10	Teakply Ply wood 6 mm thick	Sqm	482.28	450.56	482.28	506.07	545.72	537.79	486.24	553.65	486.24	525.89	593.30
A8.9.11	Particle Board 12 mm thick	Sqm	466.71	436.14	466.71	489.63	527.84	520.20	470.53	535.48	470.53	508.74	573.69
A8.9.12	Plain particle board flat pressed, 3 layer (like Novapan, Ecoboard etc..) or graded wood particle board (like Bhutan Board) medium density Grade I, IS : 3087 marked	Sqm	480.72	449.12	480.72	504.43	543.93	536.03	484.67	551.83	484.67	524.18	591.34
A8.9.13	Veneered particle board with commercial veneering on both sides conforming to IS:3097	Sqm	754.78	702.87	754.78	793.71	858.59	845.61	761.27	871.56	761.27	826.15	936.44
A8.9.14	Prelaminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS:12823 marked	Sqm	972.78	904.72	972.78	1023.82	1108.88	1091.87	981.28	1125.89	981.28	1066.35	1210.96
A8.9.15	Prelaminated particle board with decorative lamination on both sides, Grade I, Type II IS:12823 marked	Sqm	1081.78	1005.65	1081.78	1138.87	1234.03	1215.00	1091.29	1253.06	1091.29	1186.45	1348.22
A8.9.16	Decorative lamination on one sides, Grade I, Type II IS:12823	Sqm	544.56	508.23	544.56	571.81	617.23	608.15	549.11	626.31	549.11	594.52	671.73
A8.10	Extra for providing heavy sheet glass panes instead of ordinary glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)												
A8.10.1	13.75 kg/sqm (5.5 mm thick) instead of 10 kg per sqm	Sqm	156.49	144.90	156.49	165.19	179.68	176.78	157.94	182.57	157.94	172.43	197.06

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.11	Extra for providing frosted glass panes 10 kg/sqm (4 mm thick) instead of ordinary glass panes 10 kg/sqm (4 mm thick) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)	Sqm	2.61	2.42	2.61	2.75	2.99	2.95	2.63	3.04	2.63	2.87	3.28
A8.12	Deduct for providing pin headed glass panes instead of ordinary glass panes weighing 10 kg / sqm (4 mm thick) in doors, windows and clerestory windows, shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	117.37	108.68	117.37	123.89	134.76	132.58	118.46	136.93	118.46	129.32	147.80
A8.13	Extra for providing ISI marked Stainless Steel butt hinges instead of black enamelled M.S. butt hinges with necessary screws. (Shutter area to be measured).	Sqm	556.46	515.24	556.46	587.38	638.90	628.60	561.62	649.21	561.62	613.14	700.73
A8.14	Deduct if fixed shutters (without hinges) are provided instead of openable shutters for doors, windows or clerestory windows with :												
A8.14.1	Stainless Steel butt hinges with Stainless Steel screws:												
A8.14.1.1	Teakwood	Sqm	135.72	132.41	135.72	143.26	155.83	153.32	136.98	158.34	136.98	149.55	170.91
A8.14.1.2	For other inferior class of wood shutters	Sqm	151.98	148.27	151.98	160.42	174.49	171.68	153.38	177.31	153.38	167.45	191.38
A8.14.2	Black enamelled M.S. butt hinges with necessary screws.												
A8.14.2.1	Teakwood	Sqm	139.18	135.78	139.18	146.91	159.80	157.22	140.47	162.37	140.47	153.35	175.26
A8.14.2.2	For other inferior class of wood shutters.	Sqm	151.98	148.27	151.98	160.42	174.49	171.68	153.38	177.31	153.38	167.45	191.38
A8.15	Providing and fixing 25 mm thick shutters for cup board etc.												
A8.15.1	Teak wood Panelled or panelled & glazed shutters with ISI marked aluminium butt hinges with necessary screws	Sqm	2368.73	2312.89	2368.73	2410.61	2480.41	2466.45	2375.71	2494.37	2375.71	2445.51	2564.17
A8.15.2	Seasoned and chemically treated hollock wood, Koroi, Titachap, Bhola fixed or glazed with ISI marked aluminium butt hinges with necessary screws	Sqm	1657.20	1601.36	1657.20	1699.08	1768.88	1754.92	1664.18	1782.84	1664.18	1733.98	1852.64
A8.15.3	Second Class wood Panelled or panelled & glazed shutters: with ISI marked aluminium butt hinges with necessary screws	Sqm	1254.27	1202.08	1254.27	1293.41	1358.65	1345.60	1260.79	1371.70	1260.79	1326.03	1436.94
A8.16	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) (like Novapan, Ecoboard, etc.) or graded wood particle board (like Bhutan Board) IS : 3087 marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid seperately):												
	12 mm thick	sqm	798.37	751.03	798.37	833.87	893.03	881.20	804.28	904.87	804.28	863.45	964.04
	18 mm thick	sqm	987.46	926.12	987.46	1033.47	1110.14	1094.81	995.13	1125.48	995.13	1071.80	1202.15

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.17	Providing and fixing prelaminated flat pressed 3 layer (medium density) particle board (like Novapan, Ecoboard, etc.) or graded wood particle board (like Bhutan Board) IS : 3087 marked with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS - 12823 marked in shelves with screws and M.S. or aluminium brackets wherever required, edges to be painted with polyurethane primer (Brackets to be paid separately).												
A8.17.1	18 mm thick	sqm	1666.60	1584.44	1666.60	1728.22	1830.92	1810.38	1676.87	1851.46	1676.87	1779.57	1954.15
A8.17.2	25 mm thick	sqm	1873.97	1781.67	1873.97	1943.19	2058.57	2035.49	1885.51	2081.65	1885.51	2000.88	2197.02
A8.18	Providing brackets fixed in 7.5x7.5x15 cm blocks of cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 20 mm nominal size) to support 20 cm wide shelves.												
A8.18.1	T or L iron 30 cm long of section 40x40x6 mm	each	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
A8.18.2	Aluminium T or L 30 cm long of section 40x40x4 mm	each	115.00	115.00	115.00	115.00	115.00	115.00	115.00	115.00	115.00	115.00	115.00
A8.19	Providing and fixing ISI marked flush door shutters decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.												
A8.19.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	2251.95	2093.48	2251.95	2370.81	2568.91	2529.29	2271.76	2608.52	2271.76	2469.86	2806.62
A8.19.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	2173.71	2021.03	2173.71	2288.22	2479.07	2440.90	2192.79	2517.24	2192.79	2383.64	2708.09
A8.19.3	25 mm thick (for cupboard) including ISI marked nickle plated bright finished M.S. Piano hinges IS : 3818 marked with screws.	sqm	1982.12	1843.63	1982.12	2085.99	2259.10	2224.48	1999.43	2293.72	1999.43	2172.54	2466.83
A8.20	Providing and fixing ISI marked flush door shutters non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.												
A8.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	1580.69	1470.52	1580.69	1663.32	1801.05	1773.50	1594.46	1828.59	1594.46	1732.19	1966.31
A8.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	1464.00	1363.49	1464.00	1539.39	1665.04	1639.91	1476.57	1690.17	1476.57	1602.21	1815.81
A8.20.3	25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	1319.35	1233.41	1319.35	1383.80	1491.22	1469.74	1330.09	1512.71	1330.09	1437.51	1620.13

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.21	Extra for providing and fixing flush doors with teak veneering	Sqm	398.48	398.48	398.48	398.48	398.48	398.48	398.48	398.48	398.48	398.48	398.48
A8.22	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	sqm	375.53	375.53	375.53	375.53	375.53	375.53	375.53	375.53	375.53	375.53	375.53
A8.23	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (Cost of glass excluded) (overall area of door shutter to be measured)												
A8.23.1	Rectangular or square	sqm	144.90	144.90	144.90	144.90	144.90	144.90	144.90	144.90	144.90	144.90	144.90
A8.23.2	Circular.	sqm	187.16	187.16	187.16	187.16	187.16	187.16	187.16	187.16	187.16	187.16	187.16
A8.24	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured)												
A8.24.1	Decorative type door.	sqm	350.18	350.18	350.18	350.18	350.18	350.18	350.18	350.18	350.18	350.18	350.18
A8.25	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	102.64	102.64	102.64	102.64	102.64	102.64	102.64	102.64	102.64	102.64	102.64
A8.26	Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0 63 mm for doors, windows and clerestory windows including ISI marked bright finished or/and black enamelled M.S. butt hinges with necessary screws :												
A8.26.1	Teak wood	sqm	2353.23	2262.37	2353.23	2421.38	2534.96	2512.24	2364.59	2557.67	2364.59	2478.17	2671.25
A8.26.2	Seasoned and chemically treated hollock wood, Koroi, etc	sqm	1715.58	1624.71	1715.58	1783.72	1897.30	1874.59	1726.93	1920.02	1726.93	1840.51	2033.60
A8.26.3	Second Class wood	sqm	1665.88	1575.02	1665.88	1734.03	1847.61	1824.89	1677.24	1870.32	1677.24	1790.82	1983.90
	MISCELLANEOUS - WOODWORK												
A8.27	Providing 50x50x50mm 1st Class wood plugs including cutting brick work and fixing in cement mortar 1 : 3 (1 cement : 3 fine sand) and making good the walls etc	each	31.65	30.22	31.65	32.75	34.51	34.15	31.82	34.88	31.82	33.62	36.67
A8.28	Providing and fixing expandable fastners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/R.C.C. and making good etc.												
A8.28.1	25 mm long	each	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55
A8.28.2	32 mm long	each	27.17	27.17	27.17	27.17	27.17	27.17	27.17	27.17	27.17	27.17	27.17
A8.28.3	40 mm long	each	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19
A8.28.4	50 mm long	each	36.23	36.23	36.23	36.23	36.23	36.23	36.23	36.23	36.23	36.23	36.23

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.29	Providing and fixing Teak wood plain lining tongued and grooved on and including wooden plugs complete with necessary screws and priming coat on unexposed surface												
A8.29.1	40 mm thick.	Sqm	4004.95	3993.72	4004.95	4013.58	4027.39	4024.57	4006.28	4030.30	4006.28	4020.41	4044.35
A8.29.2	25 mm thick.	Sqm	2873.52	2862.29	2873.52	2882.15	2895.97	2893.14	2874.85	2898.87	2874.85	2888.98	2912.92
A8.29.3	20 mm thick.	Sqm	2278.22	2267.00	2278.22	2286.85	2300.67	2297.84	2279.55	2303.57	2279.55	2293.68	2317.62
A8.29.4	12 mm thick.	Sqm	1461.95	1450.73	1461.95	1470.58	1484.40	1481.57	1463.28	1487.30	1463.28	1477.41	1501.35
A8.30	Providing and fixing in wall lining flat pressed three layer (medium density) particle board (like Novapan, Ecoboard, etc.) or graded wood (like Bhutan Board) prelaminate one side decorative lamination on other side balancing lamination Grade I, Type II, IS : 12823 marked including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete.												
A8.30.1	12 mm thick.	Sqm	1560.48	1508.41	1560.48	1599.53	1664.61	1651.59	1566.98	1677.63	1566.98	1632.07	1742.71
A8.30.2	18 mm thick	Sqm	1895.16	1827.68	1895.16	1945.77	2030.11	2013.24	1903.59	2046.98	1903.59	1987.94	2131.32
A8.30.3	25 mm thick.	Sqm	2029.93	1955.55	2029.93	2085.71	2178.69	2160.10	2039.23	2197.29	2039.23	2132.20	2290.27
A8.31	Providing and fixing 40mm thick teak wood plain panelling with skirting chair rails, and cornice with necessary screws, priming coat on unexposed surface etc. complete.	Sqm	3936.83	3645.21	3936.83	4155.54	4520.06	4447.16	3973.28	4592.96	3973.28	4337.80	4957.49
A8.32	Providing and fixing skirting of prelaminate with (one side decorative and other side balancing lamination) flat pressed, 3 layer (like Novapan, Ecoboard, etc.) or graded particle board (like Bhutan Board) (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangement and screws including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete.												
A8.32.1	18 mm thick	Sqm	2042.39	1953.13	2042.39	2109.33	2220.91	2198.59	2053.55	2243.22	2053.55	2165.12	2354.79
A8.32.2	25 mm thick.	Sqm	2256.31	2159.61	2256.31	2328.83	2449.70	2425.53	2268.40	2473.88	2268.40	2389.27	2594.75
A8.33	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete.												
A8.33.1	Teak wood												
A8.33.1.1	50x12 mm	metre	70.31	70.31	70.31	70.31	70.31	70.31	70.31	70.31	70.31	70.31	70.31
A8.33.1.2	50x20 mm	metre	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72	97.72

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.33.2	Second Class Wood												
A8.33.2.1	50x12 mm	metre	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39
A8.33.2.2	50x20 mm	metre	70.61	70.61	70.61	70.61	70.61	70.61	70.61	70.61	70.61	70.61	70.61
A8.34	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842 - 2000, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia (heavy type) curtain rod with nickle plated brackets including fixing with 25x3 mm M.S. Flat 10 cm long and rawl plug 50 mm long (designation 10 No.) etc., all complete.	metre	370.05	349.48	370.05	385.48	411.19	406.04	372.62	416.33	372.62	398.33	442.04
A8.35	Extra for using veneered particle board in item of pelmet 18 mm thick 150 mm wide.												
A8.35.1	Commercial veneering on both sides.	metre	33.38	30.91	33.38	35.24	38.33	37.71	33.69	38.95	33.69	36.79	42.04
A8.35.2	Particle board with teak veneering on both sides.	metre	102.24	94.67	102.24	107.92	117.39	115.49	103.19	119.28	103.19	112.65	128.75
A8.36	Providing and fixing teak wood lipping of size 25x3mm in pelmet.	metre	36.83	36.83	36.83	36.83	36.83	36.83	36.83	36.83	36.83	36.83	36.83
A8.37	Providing and fixing curtain rods of 1.25mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws, wooden plugs,etc.,wherever necessary.												
A8.37.1	12 mm dia.	metre	193.29	178.98	193.29	204.03	221.93	218.35	195.08	225.51	195.08	212.98	243.41
A8.37.2	20 mm dia.	metre	212.86	197.09	212.86	224.68	244.39	240.45	214.83	248.33	214.83	234.53	268.04
A8.37.3	25 mm dia.	metre	284.58	263.50	284.58	300.39	326.74	321.47	287.22	332.01	287.22	313.57	358.36
A8.38	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets												
A8.38.1	20 mm dia (heavy type)	metre	76.80	72.45	76.80	80.06	85.49	84.40	77.34	86.58	77.34	82.77	92.01
A8.38.2	25 mm dia (heavy type)	metre	83.46	77.28	83.46	88.10	95.83	94.28	84.24	97.37	84.24	91.96	105.10
A8.39	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. complete.												
A8.39.1	Fixed to steel windows by welding	kg.	79.62	78.81	79.62	80.28	81.24	81.02	79.69	81.46	79.69	80.72	82.49
A8.39.2	Fixed to openings / wooden frames with rawl plugs screws	kg.	87.08	86.27	87.08	87.74	88.70	88.48	87.15	88.92	87.15	88.18	89.95
A8.40	Providing and fixing expanded metal 20x60mm strands 3.25mm wide and 1.6mm thick for windows etc. including 62x19mm beading of IInd class teak wood	sqm	787.21	761.76	787.21	806.29	838.09	831.73	790.39	844.45	790.39	822.19	876.25
A8.41	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weeght not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of class teak wood.	sqm	877.79	837.51	877.79	908.00	958.36	948.29	882.83	968.43	882.83	933.18	1018.78

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.42	Providing and fixing fly proof galvanised M.S. wire gauze to windows and clerestory windows using galvanised M.S. wire gage with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.												
A8.42.1	With 1st Class wood beading 62x19 mm	sqm	805.04	784.89	805.04	820.14	845.32	840.28	807.55	850.36	807.55	832.73	875.53
A8.42.2	With 12 mm mild steel U beading.	sqm	620.83	600.69	620.83	635.94	661.12	656.08	623.35	666.15	623.35	648.53	691.33
A8.43	Deduct for fixing 75x25mm hard drawn steel wire fabric of weight not less than 7.75 Kg/sqm in panelled and glazed door and window shutter instead of glass sheet 10 Kg./sqm (4mm thick)	sqm	123.89	114.71	123.89	130.77	142.24	139.95	125.04	144.54	125.04	136.51	156.01
A8.44	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm)	each	103.27	94.74	103.27	110.07	120.34	118.08	104.15	122.60	104.15	114.94	133.40
A8.45	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with:												
A8.45.1	Seasoned and chemically treated hollock wood, Koroi, etc	cum	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58	37078.58
A8.45.2	Second Class wood	cum	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29	32971.29
	BRIGHT FINISHED M.S. FITTINGS.												
A8.46	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete												
A8.46.1	125x65x2.12 mm	each	30.62	29.22	30.62	31.67	33.42	33.07	30.80	33.77	30.80	32.55	35.52
A8.46.2	100x58x1.90 mm	each	23.81	22.58	23.81	24.73	26.26	25.95	23.96	26.57	23.96	25.49	28.10
A8.46.3	75x47x1.70 mm	each	18.88	18.02	18.88	19.52	20.60	20.39	18.99	20.82	18.99	20.06	21.89
A8.46.4	50x37x1.50 mm	each	9.37	8.89	9.37	9.73	10.32	10.20	9.43	10.44	9.43	10.03	11.04
A8.47	Providing and fixing IS : 1341 marked M.S. heavy weight - Butt Hinges with necessary screws etc., complete												
A8.47.1	125x90x4.00 mm	each	76.36	71.24	76.36	80.20	86.60	85.32	77.00	87.88	77.00	83.40	94.28
A8.47.2	100x75x3.50 mm	each	44.02	41.30	44.02	46.06	49.47	48.79	44.36	50.15	44.36	47.77	53.56
A8.47.3	75x60x3.10 mm	each	25.40	24.05	25.40	26.41	28.09	27.75	25.57	28.42	25.57	27.25	30.10
A8.47.4	50x40x2.50 mm	each	16.54	15.53	16.54	17.30	18.56	18.31	16.67	18.81	16.67	17.93	20.08
	Note : - In coastal areas, M.S. heavy weight Butt hinges or Stainless Steel hinges shall be used.												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	COPPER OXIDISED MILD STEEL FITTINGS												
	(Copper Oxidised as per IS: 1378)												
A8.48	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.												
A8.48.1	125x65x2.12 mm	each	33.31	31.76	33.31	34.48	36.42	36.03	33.51	36.81	33.51	35.45	38.76
A8.48.2	100x58x1.90 mm	each	23.95	22.82	23.95	24.80	26.21	25.93	24.09	26.49	24.09	25.51	27.91
A8.48.3	75x47x1.70 mm	each	15.75	15.12	15.75	16.22	17.01	16.85	15.83	17.16	15.83	16.61	17.95
A8.48.4	50x37x1.50 mm	each	8.84	8.40	8.84	9.18	9.73	9.62	8.90	9.84	8.90	9.45	10.39
A8.49	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete												
A8.49.1	150x125x27x2.80 mm	each	67.93	64.24	67.93	70.70	75.31	74.39	68.39	76.23	68.39	73.00	80.84
A8.49.2	125x125x27x2.80 mm	each	56.92	53.61	56.92	59.39	63.52	62.70	57.33	64.35	57.33	61.46	68.48
A8.49.3	100x125x27x2.80 mm	each	48.56	45.64	48.56	50.75	54.40	53.67	48.93	55.12	48.93	52.57	58.77
A8.49.4	75x100x20x2.24 mm	each	36.22	34.05	36.22	37.84	40.54	40.00	36.49	41.08	36.49	39.19	43.79
A8.50	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete												
A8.50.1	150 mm	each	172.82	161.81	172.82	181.08	194.84	192.09	174.19	197.60	174.19	187.96	211.36
A8.50.2	125 mm	each	159.78	149.73	159.78	167.31	179.87	177.36	161.03	182.38	161.03	173.59	194.94
A8.50.3	100 mm	each	119.44	112.18	119.44	124.89	133.97	132.15	120.35	135.79	120.35	129.43	144.87
A8.51	Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.												
A8.51.1	150 mm	each	225.99	212.16	225.99	236.37	253.66	250.20	227.72	257.12	227.72	245.01	274.41
A8.51.2	125 mm	each	193.87	181.97	193.87	202.80	217.67	214.70	195.36	220.65	195.36	210.24	235.53
A8.51.3	100 mm	each	142.91	133.91	142.91	149.67	160.92	158.67	144.04	163.17	144.04	155.29	174.43
A8.52	Providing M.S. Piano hinges ISI market. IS : 3818 finished with nickle plating and fixing with necessary screws etc., complete.												
A8.52.1	Overall width 35 mm	metre	144.44	139.10	144.44	148.44	155.10	153.77	145.10	156.43	145.10	151.77	163.10
A8.52.2	Overall width 50 mm	metre	160.09	153.59	160.09	164.95	173.07	171.45	160.90	174.69	160.90	169.01	182.81
A8.52.3	Overall width 65 mm	metre	170.26	163.01	170.26	175.69	184.75	182.94	171.16	186.56	171.16	180.22	195.62
A8.53	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete												
A8.53.1	300x16 mm	each	124.62	116.33	124.62	130.84	141.21	139.13	125.66	143.28	125.66	136.02	153.65
A8.53.2	250x16 mm	each	114.95	107.11	114.95	120.83	130.64	128.68	115.93	132.60	115.93	125.73	142.40

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.54	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete												
A8.54.1	250x10 mm	each	52.68	49.08	52.68	55.37	59.87	58.97	53.13	60.76	53.13	57.62	65.26
A8.54.2	200x10 mm	each	46.45	43.30	46.45	48.81	52.74	51.95	46.84	53.52	46.84	50.77	57.45
A8.54.3	150x10 mm	each	35.18	32.87	35.18	36.91	39.80	39.22	35.47	40.38	35.47	38.36	43.27
A8.54.4	100x10 mm	each	26.99	25.26	26.99	28.29	30.45	30.02	27.21	30.89	27.21	29.37	33.05
A8.55	Providing and fixing ISI marked 85mmx42mm oxidised M.S. pull bolt lock conforming to IS:7534 with necessary screws bolts, etc	each	68.83	64.48	68.83	72.09	77.52	76.43	69.37	78.61	69.37	74.80	84.04
A8.56	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete												
A8.56.1	300x20x6mm	each	70.85	66.00	70.85	74.48	80.54	79.33	71.45	81.75	71.45	77.51	87.81
A8.56.2	250x20x6mm	each	65.85	61.29	65.85	69.27	74.96	73.82	66.42	76.10	66.42	72.11	81.79
A8.57	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete												
A8.57.1	125 mm	each	21.68	20.24	21.68	22.77	24.57	24.21	21.86	24.93	21.86	23.67	26.74
A8.57.2	100 mm	each	15.16	14.20	15.16	15.88	17.09	16.85	15.28	17.33	15.28	16.49	18.53
A8.57.3	75mm	each	11.67	10.96	11.67	12.19	13.07	12.90	11.76	13.25	11.76	12.63	14.13
A8.57	Providing and fixing oxidised M.S. fan light pivot with necessary screws etc.	each	20.79	19.25	20.79	21.95	23.87	23.49	20.98	24.26	20.98	22.91	26.18
A8.58	Providing and fixing oxidised M.S. fan light catch with necessary screws etc	each	19.05	17.64	19.05	20.11	21.87	21.52	19.23	22.23	19.23	20.99	23.99
A8.59	Providing and fixing 300mm long oxidised M.S. chain with hook for fan light including necessary screws etc. complete	each.	27.91	25.84	27.91	29.46	32.04	31.52	28.17	32.56	28.17	30.75	35.14
A8.60	Providing and fixing oxidised M.S. hasp and staple (Safety type) conforming to IS : 363 with necessary screws etc. complete												
A8.60.1	150 mm	each	26.34	25.14	26.34	27.24	28.74	28.44	26.49	29.04	26.49	27.99	30.54
A8.60.2	115 mm	each	22.98	21.95	22.98	23.76	25.05	24.79	23.11	25.31	23.11	24.40	26.59
A8.60.3	90 mm	each	19.94	19.05	19.94	20.61	21.71	21.49	20.05	21.94	20.05	21.16	23.04
A8.61	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.												
A8.61.1	300 mm weighing not less than 200 gms	each	40.09	37.38	40.09	42.11	45.49	44.81	40.42	46.16	40.42	43.80	49.54
A8.61.2	250 mm weighing not less than 150 gms	each	36.17	33.76	36.17	37.98	41.00	40.39	36.47	41.60	36.47	39.49	44.61
A8.61.3	200 mm weighing not less than 120 gms	each	33.56	31.35	33.56	35.23	38.00	37.45	33.84	38.55	33.84	36.61	41.33
A8.62	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors. (Weighing not less than 450 gms.)	each	106.21	98.82	106.21	111.74	120.97	119.13	107.13	122.82	107.13	116.36	132.05

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	STAINLESS STEEL FITTINGS												
A8.63	Providing and fixing ISI : 12817 marked Stainless Steel Butt Hinges with Stainless Steel screws etc. complete.												
A8.63.1	125x64x1.90mm	each	96.21	91.29	96.21	99.91	106.07	104.84	96.83	107.30	96.83	102.99	113.46
A8.63.2	100X58X1.90mm	each	73.00	69.79	73.00	75.41	79.41	78.61	73.40	80.22	73.40	77.41	84.23
A8.63.3	75x47x1.80mm	each	47.50	45.43	47.50	49.06	51.66	51.14	47.76	52.18	47.76	50.36	54.78
A8.63.4	50x37x1.50mm	each	29.37	28.13	29.37	30.30	31.84	31.54	29.53	32.15	29.53	31.07	33.70
A8.64	Providing and fixing ISI : 12817 marked Stainless Steel Butt Hinges (heavy weight) with Stainless Steel screws etc. complete.												
A8.64.1	125x64x2.50mm	each	112.88	105.05	112.88	118.75	128.53	126.57	113.86	130.48	113.86	123.64	140.26
A8.64.2	100x60x2.50mm	each	84.45	78.73	84.45	88.74	95.89	94.46	85.16	97.31	85.16	92.31	104.46
A8.64.3	75x50x2.50mm	each	55.68	52.09	55.68	58.37	62.85	61.96	56.13	63.75	56.13	60.61	68.24
	BRASS FITTINGS												
A8.65	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete												
A8.65.1	125x85x5.5mm (heavy type)	each	274.83	255.02	274.83	289.68	314.43	309.48	277.30	319.38	277.30	302.06	344.14
A8.65.2	125x70x4mm (ordinary type)	each	94.86	88.39	94.86	99.72	107.81	106.19	95.67	109.42	95.67	103.76	117.51
A8.65.3	100x85x5.5mm (heavy type)	each	226.84	210.59	226.84	239.02	259.33	255.27	228.87	263.39	228.87	249.18	283.70
A8.65.4	100x70x4mm (ordinary type)	each	63.82	59.65	63.82	66.95	72.17	71.13	64.35	73.21	64.35	69.56	78.43
A8.65.5	75x65x4mm (heavy type)	each	86.78	80.90	86.78	91.18	98.52	97.05	87.51	99.99	87.51	94.85	107.33
A8.65.6	75x40x2.5mm (ordinary type)	each	39.83	37.43	39.83	41.62	44.62	44.02	40.13	45.22	40.13	43.12	48.21
A8.65.7	50x40x2.5mm (ordinary type)	each	20.63	19.32	20.63	21.62	23.26	22.93	20.80	23.59	20.80	22.44	25.23
A8.66	Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete												
A8.66.1	150x125x27x5mm	each	291.70	270.72	291.70	307.44	333.67	328.42	294.33	338.91	294.33	320.55	365.14
A8.66.2	125x125x27x5mm	each	251.28	233.29	251.28	264.77	287.25	282.75	253.52	291.75	253.52	276.01	314.23
A8.66.3	100x125x27x5mm	each	209.54	194.65	209.54	220.72	239.34	235.61	211.41	243.06	211.41	230.03	261.68
A8.66.4	75x100x20x3 2mm	each	162.08	150.70	162.08	170.61	184.83	181.99	163.50	187.68	163.50	177.72	201.90
A8.67	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete												
A8.67.1	250x10mm	each	216.19	200.45	216.19	228.00	247.68	243.75	218.16	251.62	218.16	237.84	271.30
A8.67.2	200x10mm	each	173.68	161.08	173.68	183.12	198.87	195.72	175.25	202.02	175.25	191.00	217.77
A8.67.3	150x10mm	each	134.55	124.86	134.55	141.83	153.95	151.53	135.77	156.38	135.77	147.89	168.50
A8.67.4	100x 10mm	each	92.04	85.49	92.04	96.95	105.14	103.50	92.86	106.78	92.86	101.05	114.96

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.68	Providing and fixing bright finished brass door latch with necessary screws etc. complete												
A8.68.1	300x16x5mm	each	208.70	193.56	208.70	220.05	238.97	235.19	210.59	242.76	210.59	229.51	261.68
A8.68.2	250x16x5mm	each	182.62	169.41	182.62	192.52	209.03	205.73	184.27	212.33	184.27	200.77	228.84
A8.69	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	987.49	918.91	987.49	1038.93	1124.67	1107.52	996.07	1141.81	996.07	1081.80	1227.54
A8.70	Providing and fixing bright finished brass 100mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	896.21	834.38	896.21	942.57	1019.85	1004.40	903.93	1035.31	903.93	981.21	1112.59
A8.71	Providing and fixing bright finished brass night latch including necessary screws etc. complete (best make of approved quality)	each	1206.29	1148.33	1206.29	1249.76	1322.21	1307.72	1213.54	1336.70	1213.54	1285.99	1409.15
A8.72	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers including necessary screws etc. complete (best make of approved quality):												
A8.72.1	40 mm	each	139.83	134.03	139.83	144.18	151.42	149.97	140.55	152.87	140.55	147.80	160.11
A8.72.2	50mm	each	155.48	148.52	155.48	160.69	169.39	167.65	156.35	171.13	156.35	165.04	179.82
A8.72.3	65mm	each	188.34	178.95	188.34	195.38	207.12	204.77	189.51	209.47	189.51	201.25	221.20
A8.72.4	75 mm	each	213.69	202.43	213.69	222.14	236.23	233.41	215.10	239.04	215.10	229.19	253.13
A8.73	Providing and fixing 50mm bright finished brass cup board or wardrobe knob with necessary screws	each	57.24	53.37	57.24	60.13	64.96	64.00	57.72	65.93	57.72	62.55	70.76
A8.74	Providing and fixing bright finished brass handles with screws etc. complete :												
A8.74.1	125mm	each	203.53	188.61	203.53	214.71	233.36	229.63	205.39	237.09	205.39	224.03	255.73
A8.74.2	100mm	each	173.53	160.84	173.53	183.05	198.92	195.75	175.12	202.09	175.12	190.99	217.96
A8.74.3	75mm	each	129.19	119.78	129.19	136.25	148.01	145.66	130.37	150.36	130.37	142.13	162.12
A8.75	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	each	120.32	111.57	120.32	126.89	137.83	135.64	121.42	140.02	121.42	132.36	150.96
A8.76	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.(Classic Queen) complete.	each	1233.13	1144.47	1233.13	1299.62	1410.45	1388.28	1244.21	1432.61	1244.21	1355.03	1543.44

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.77	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.												
A8.77.1	Hardwyn make (Eddy) or equivalent	each	959.27	890.89	959.27	1010.55	1096.01	1078.92	967.81	1113.11	967.81	1053.28	1198.57
A8.77.2	Hardwyn make (Mytel) or equivalent	each	828.86	770.14	828.86	872.89	946.28	931.61	836.20	960.96	836.20	909.59	1034.35
A8.77.3	Hardwyn make (Gazel) or equivalent	each	894.06	830.52	894.06	941.72	1021.15	1005.26	902.00	1037.03	902.00	981.43	1116.46
A8.78	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	each	67.64	63.27	67.64	70.91	76.37	75.28	68.19	77.46	68.19	73.64	82.92
A8.79	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete												
A8.79.1	300 mm weighing not less than 330 gms	each	148.49	138.14	148.49	156.26	169.20	166.62	149.79	171.79	149.79	162.73	184.74
A8.79.2	250 mm weighing not less than 280 gms	each	128.93	120.03	128.93	135.61	146.75	144.52	130.05	148.97	130.05	141.18	160.10
A8.79.3	200 mm weighing not less than 240 gms	each	110.67	103.12	110.67	116.34	125.78	123.89	111.62	127.67	111.62	121.06	137.11
A8.80	Providing and fixing bright finished brass fan light catch with necessary screws etc. complete.	each	35.44	33.09	35.44	37.21	40.16	39.57	35.74	40.75	35.74	38.68	43.69
A8.81	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:												
A8.81.1	150 mm	each	121.31	112.54	121.31	127.89	138.85	136.66	122.41	141.05	122.41	133.37	152.01
A8.81.2	115 mm	each	94.45	87.66	94.45	99.53	108.01	106.31	95.29	109.70	95.29	103.77	118.18
A8.81.3	90 mm	each	75.54	70.16	75.54	79.57	86.30	84.95	76.21	87.64	76.21	82.93	94.37
	CHROMIUM PLATED BRASS FITTINGS												
A8.82	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	each	1167.31	1115.73	1167.31	1206.00	1270.48	1257.59	1173.76	1283.38	1173.76	1238.24	1347.86
A8.83	Providing and fixing chromium plated brass night latch including necessary screws etc complete (Best make of approved quality).	each	1151.96	1098.83	1151.96	1191.80	1258.22	1244.93	1158.60	1271.50	1158.60	1225.01	1337.91
A8.84	Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of:												
A8.84.1	Size 40 mm	each	218.07	206.48	218.07	226.77	241.26	238.36	219.52	244.16	219.52	234.01	258.65
A8.84.2	Size 50 mm	each	263.72	248.75	263.72	274.95	293.66	289.92	265.59	297.41	265.59	284.31	316.12
A8.84.3	Size 65 mm	each	306.75	288.59	306.75	320.37	343.07	338.53	309.02	347.62	309.02	331.72	370.32
A8.84.4	Size 75 mm	each	341.96	321.20	341.96	357.54	383.50	378.31	344.56	388.69	344.56	370.52	414.66

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.85	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	each	85.49	82.11	85.49	88.03	92.25	91.41	85.91	93.10	85.91	90.14	97.32
A8.86	Providing and fixing chromium plated brass handles with necessary screws etc. complete:												
A8.86.1	125mm	each	209.53	194.17	209.53	221.04	240.24	236.40	211.45	244.08	211.45	230.64	263.28
A8.86.2	100mm	each	178.23	165.19	178.23	188.01	204.31	201.05	179.86	207.57	179.86	196.16	223.87
A8.86.3	75mm	each	152.15	141.04	152.15	160.48	174.36	171.59	153.53	177.14	153.53	167.42	191.03
A8.87	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.	each	73.90	68.59	73.90	77.88	84.53	83.20	74.56	85.85	74.56	81.20	92.49
A8.88	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete												
A8.88.1	300 mm weighing not less than 330 gms	each	173.30	161.81	173.30	181.92	196.29	193.42	174.74	199.17	174.74	189.11	213.53
A8.88.2	250 mm weighing not less than 280 gms	each	161.27	150.94	161.27	169.03	181.95	179.36	162.57	184.53	162.57	175.49	197.45
A8.88.3	200 mm weighing not less than 240 gms	each	132.73	123.17	132.73	139.90	151.86	149.46	133.92	154.25	133.92	145.88	166.20
	ANODISED ALUMINIUM FITTINGS												
A8.89	Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:												
A8.89.1	125x75x4 mm	each	128.50	120.99	128.50	134.13	143.51	141.63	129.44	145.39	129.44	138.82	154.77
A8.89.2	125x63x4 mm	each	124.85	117.61	124.85	130.27	139.32	137.51	125.75	141.13	125.75	134.79	150.17
A8.89.3	100x75x4 mm	each	115.85	109.28	115.85	120.77	128.99	127.34	116.67	130.63	116.67	124.88	138.84
A8.89.4	100x63x4 mm	each	113.89	107.47	113.89	118.71	126.74	125.13	114.69	128.35	114.69	122.72	136.38
A8.89.5	100x63x3.2 mm	each	111.21	104.93	111.21	115.92	123.77	122.20	112.00	125.34	112.00	119.84	133.19
A8.89.6	75x63x4 mm	each	75.53	70.88	75.53	79.01	84.82	83.66	76.11	85.98	76.11	81.92	91.79
A8.89.7	75x63x3.2 mm	each	69.01	64.84	69.01	72.13	77.33	76.29	69.53	78.37	69.53	74.73	83.58
A8.89.8	75x45x3.2 mm	each	41.14	39.00	41.14	42.74	45.41	44.87	41.40	45.94	41.40	44.07	48.61
	Note : - Aluminium Hinges shall not be used in wooden shutters, Stainless Steel hinges shall be preferred.												
A8.90	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete												
A8.90.1	300x16 mm	each	246.13	231.12	246.13	257.39	276.15	272.40	248.00	279.90	248.00	266.77	298.67
A8.90.2	250x16 mm	each	230.19	216.63	230.19	240.36	257.31	253.92	231.88	260.70	231.88	248.84	277.66

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.91	Providing and fixing aluminium tower bolts ISI marked anodised anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc												
A8.91.1	300 x 10 mm	each	110.44	103.60	110.44	115.57	124.12	122.41	111.30	125.83	111.30	119.85	134.38
A8.91.2	250 x 10 mm	each	96.39	90.32	96.39	100.94	108.52	107.00	97.15	110.04	97.15	104.73	117.62
A8.91.3	200 x 10 mm	each	83.35	78.25	83.35	87.17	93.55	92.27	83.98	94.82	83.98	90.36	101.20
A8.91.4	150 x 10 mm	each	70.60	66.17	70.60	73.91	79.44	78.34	71.15	80.55	71.15	76.68	86.08
A8.91.5	100 x 10 mm	each	53.02	49.63	53.02	55.56	59.80	58.95	53.44	60.65	53.44	57.68	64.89
A8.92	Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc-	each	81.14	77.28	81.14	84.04	88.87	87.91	81.63	89.84	81.63	86.46	94.67
A8.93	Providing and fixing 50cm long aluminium kicking plate 100x3.15 mm anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour or shade with necessary screws etc. complete.	each	201.41	188.37	201.41	211.19	227.49	224.23	203.04	230.75	203.04	219.34	247.05
A8.94	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc complete:												
A8.94.1	125mm	each	77.88	73.05	77.88	81.51	87.54	86.34	78.49	88.75	78.49	84.53	94.79
A8.94.2	100mm	each	56.00	52.53	56.00	58.61	62.96	62.09	56.44	63.83	56.44	60.79	68.18
A8.94.3	75mm	each	47.16	44.07	47.16	49.48	53.35	52.57	47.55	54.12	47.55	51.42	57.98
A8.95	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete												
A8.95.1	Single rubber stopper	each	47.45	45.28	47.45	49.08	51.80	51.26	47.73	52.35	47.73	50.44	55.06
A8.95.2	Twin rubber stopper	each	135.84	129.81	135.84	140.37	147.92	146.41	136.60	149.43	136.60	144.15	156.98
A8.96	Providing and fixing aluminium casement stays ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc.	each	110.49	105.66	110.49	114.11	120.15	118.94	111.09	121.35	111.09	117.13	127.39

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.97	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	each	1028.79	970.83	1028.79	1072.26	1144.71	1130.22	1036.04	1159.20	1036.04	1108.49	1231.65
	GYPSUM BOARD PARTITIONS												
A8.98	Providing and fixing partition upto 2.40 m height having composite thickness of 67 mm consisting of frame and double skin 8.5 mm thick Glass Reinforced Gypsum (GRG) board manufactured by spray suction technique with high strength plaster of paris conforming to IS : 8272 and glass fibre of E-glass or A-glass or N-glass in the form of rovings, not less than 2.5% by weight of plaster of paris and conforming to IS : 11320 including providing and fixing of frame work made of special section power pressed from MS sheet and galvanised with Zinc coating of Grade 175 and consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm width 0.50 mm thick fixed to floor/ceiling at the spacing of 610 mm centre to centre with dash fastner of 12.5 mm dia. meter 40 mm length and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at the spacing of 450 mm centre to centre and fixing of GRG boards to either side of frame work by 20 mm long drive all screws on studs, floors and ceiling with recommended joint tiller, joint paper tape and joint finisher and two coats of primer suitable for GRG board as per manufactureres specifications all complete..	Sqm	1994.01	1883.06	1994.01	2077.22	2215.90	2188.16	2007.88	2243.64	2007.88	2146.56	2382.32

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A8.99	Providing and fixing partition above 2.40 m height having composite thickness of 89 mm consisting of frame and double skin 8.5 mm thick Glass Reinforced Gypsum (GRG) board manufactured by spray suction technique with high strength plaster of paris conforming to IS : 8272 and glass fibre of E-glass or A- glass or N-glass in the form of rovings, not less than 2.5% by weight of plaster of paris and conforming to IS : 11320 including providing and fixing frame work made of special section power pressed from MS sheet and galvanised with Zinc coating of Grade 175 and consisting of floor and ceiling channel 72 mm wide having equal flanges of 32 mm width 0.50 mm thick fixed to floor/ceiling at the spacing of 610 mm centre to centre with dash fastner of 12.5 mm dia meter 40 mm length and the studs 70 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts and studs at both ends of partition fixed flush to wall with rawl plugs at the spacing of 450 mm centre to centre and fixing of GRG boards to either side of frame work by 20 mm long drive all screws on studs, floors and ceiling channels at the spacing of 300 mm centre to centre, including jointing and finishing to a flush finish with recommended joint filler, joint paper tape and joint finisher and two coats of primer suitable for GRG board as per manufacturers specifications all complete.	Sqm	1794.61	1694.75	1794.61	1869.5	1994.31	1969.34	1807.09	2019.28	1807.09	1931.9	2144.09
A8.100	Providing and fixing PTMT handles with necessary screws etc.												
A8.100.1	125x34x24 mm weighing not less than 24 gms.	each.	71.63	68.39	71.63	74.07	78.12	77.31	72.04	78.93	72.04	76.10	82.99
A8.100.2	150x34x24 mm weighing not less than 28 gms.	each	79.15	75.35	79.15	82.00	86.75	85.80	79.63	87.70	79.63	84.38	92.45
A8.101	Providing and fixing PTMT Butt hinges with necessary screws												
A8.101.1	75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 36 gms.	each	112.27	105.80	112.27	117.11	125.19	123.58	113.07	126.81	113.07	121.15	134.89
A8.101.2	100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 57 gms.	each	145.70	136.76	145.70	152.41	163.59	161.35	146.82	165.82	146.82	158.00	177.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokch- ung	Tuengsang	Mon	Longleng	Kiphire
A8.102	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete (Prayag or equivalent)												
A8.102.1	152x42x18 mm weighing not less than 60 gms.	each	148.65	139.70	148.65	155.37	166.55	164.31	149.77	168.79	149.77	160.96	179.98
A8.102.2	202x42x18 mm weighing not less than 78 gms.	each	184.75	173.90	184.75	192.89	206.45	203.74	186.11	209.16	186.11	199.67	222.72
A8.103	Providing and fixing PTMT door clatcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 45 gms (Prayag or equivalent)	each	67.76	64.93	67.76	69.88	73.42	72.71	68.12	74.13	68.12	71.65	77.66

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
9.0 STEEL WORK													
A9.1	Structural steel work in single section fixed without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kilogram	144.37	138.26	144.37	148.95	156.59	155.06	145.13	158.12	145.13	152.77	165.75
A9.2	Structural steel work in single section fixed with connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	kilogram	145.06	136.02	145.06	151.84	163.14	160.88	146.19	165.40	146.19	157.49	176.70
A9.3	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	kilogram	163.09	154.12	163.09	169.82	181.03	178.79	164.21	183.27	164.21	175.43	194.49
A9.4	Structural steel work welded in built up sections. trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	kilogram	163.09	154.12	163.09	169.82	181.03	178.79	164.21	183.27	164.21	175.43	194.49
A9.5	Providing and fixing in vertical channels 20x10x 20x5 mm size with top a 40mm dia, steel pulley arrangement. stoppers, h of approved steel primer.	sqm	3807.88	3621.66	3807.88	3947.55	4180.33	4133.78	3831.16	4226.89	3831.16	4063.94	4459.67
A9.6	Providing and fixing 1 mm thick M.S. sheet sliding-shutters with frame and diagonal braces of 40x40x6mm angle iron, 3mm M.S. gusset plates at the junction and corners 25mm dia pulley, 40x40x6mm angle and T-iron guide at the top and bottom respectively including applying a priming coat of approved steel primer.	sqm	4036.15	3838.11	4036.15	4184.68	4432.23	4382.72	4060.90	4481.73	4060.90	4308.45	4729.28
A9.7	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.												
A9.7.1	Using M.S. angels 40x40x6 mm for diagonal braces	sqm	2379.40	2221.03	2379.40	2498.17	2696.12	2656.53	2399.19	2735.71	2399.19	2597.15	2933.67
A9.7.2	Using flats 30x6mm for diagonal braces and central cross piece.	sqm	2267.51	2117.43	2267.51	2380.06	2567.66	2530.14	2286.27	2605.18	2286.27	2473.86	2792.77

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A9.8	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.												
A9.8.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	sqm	3828.74	3561.48	3828.74	4029.19	4363.26	4296.45	3862.15	4430.08	3862.15	4196.22	4764.15
A9.8.2	80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	2664.71	2484.07	2664.71	2800.19	3026.00	2980.83	2687.29	3071.16	2687.29	2913.09	3296.96
A9.8.3	80x0.90 mm M.S. laths with 0.90 mm thick top cover	sqm	2547.34	2375.39	2547.34	2676.30	2891.24	2848.25	2568.84	2934.23	2568.84	2783.77	3149.16
A9.9	Providing and fixing ball bearing for rolling shutters.	each	1043.28	966.00	1043.28	1101.24	1197.84	1178.52	1052.94	1217.16	1052.94	1149.54	1313.76
A9.10	Extra for providing mechanical device chain and crank operation for operating rolling shutters												
A9.10.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	1115.01	1032.41	1115.01	1176.95	1280.19	1259.54	1125.33	1300.84	1125.33	1228.57	1404.08
A9.11	Extra for providing grilled rolling shutters manufactured out of 8mm dia. M.S. bar instead of laths as per design approved by Engineer-in-Charge. (area of grill to be measured.)	sqm	1043.28	966	1043.28	1101.24	1197.84	1178.52	1052.94	1217.16	1052.94	1149.54	1313.76
A9.12	Fixing standard steel glazed doors, windows and ventilators in walls with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws (only steel windows with lugs, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.)	sqm	1420.82	1405.76	1420.82	1433.15	1450.95	1446.84	1422.19	1455.06	1422.19	1441.37	1474.24

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A9.13	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required.												
A9.13.1	Doors	sqm	2567.38	2399.08	2567.38	2693.86	2904.00	2861.84	2588.30	2946.16	2588.30	2798.77	3156.63
A9.13.2	Windows fixed	sqm	1797.17	1679.36	1797.17	1885.70	2032.80	2003.29	1811.81	2062.31	1811.81	1959.14	2209.64
A9.13.3	Windows-side hung	sqm	1797.17	1679.36	1797.17	1885.70	2032.80	2003.29	1811.81	2062.31	1811.81	1959.14	2209.64
A9.13.4	Ventilators-top hung	sqm	2310.64	2159.17	2310.64	2424.47	2613.60	2575.66	2329.47	2651.54	2329.47	2518.89	2840.97
A9.13.5	Ventilators-centre hung	sqm	2310.64	2159.17	2310.64	2424.47	2613.60	2575.66	2329.47	2651.54	2329.47	2518.89	2840.97
A9.13.6	In composite units of doors, windows and ventilators	sqm	2310.64	2159.17	2310.64	2424.47	2613.60	2575.66	2329.47	2651.54	2329.47	2518.89	2840.97
A9.13.7	For overall portion treated as fixed.	sqm	1797.17	1679.36	1797.17	1885.70	2032.80	2003.29	1811.81	2062.31	1811.81	1959.14	2209.64
A9.13.8	Extra for side hung portion												
A9.13.8.1	Doors	sqm	949.93	887.66	949.93	996.73	1074.48	1058.88	957.67	1090.08	957.67	1035.54	1167.95
A9.13.8.2	Windows	sqm	664.95	621.36	664.95	697.71	752.14	741.22	670.37	763.06	670.37	724.88	817.57
A9.13.9	Extra for top hung portion	sqm	712.45	665.74	712.45	747.55	805.86	794.16	718.25	817.56	718.25	776.66	875.96
A9.13.10	Extra for centre hung portion	sqm	712.45	665.74	712.45	747.55	805.86	794.16	718.25	817.56	718.25	776.66	875.96
A9.13.11	Extra for providing Vertical Coupling Mullion bar or Horizontal coupling Mullion bar (when openable windows are to be coupled above fixed ones or between two fixed windows) or Horizontal Coupling Mullion bar(when windows are not exposed to weather)	metre	142.49	133.15	142.49	149.51	161.17	158.83	143.65	163.51	143.65	155.33	175.19
A9.13.12	Extra for providing Horizontal Coupling Mullion Bar or Weather Bar (Especially used when the coupled unit is exposed to rain)	metre	189.99	177.53	189.99	199.35	214.90	211.78	191.53	218.02	191.53	207.11	233.59
A9.14	Extra for providing and fixing steel beading of approved shape and section with screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	metre	32.60	30.19	32.60	34.41	37.43	36.83	32.90	38.04	32.90	35.92	41.06

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A9.15	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as require including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	kilogram	120.67	112.14	120.67	127.12	137.74	135.60	121.72	139.89	121.72	132.40	150.58
A9.16	Providing and fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:												
A9.16.1	Profile A	metre	394.16	369.40	394.16	412.74	443.70	437.51	397.26	449.89	397.26	428.22	480.85
A9.16.2	Profile B	metre	418.94	392.34	418.94	438.89	472.15	465.50	422.27	478.80	422.27	455.52	512.05
A9.16.3	Profile C	metre	449.23	420.59	449.23	470.70	506.49	499.33	452.81	513.65	452.81	488.60	549.44
A9.17	Providing and fixing M.S. Tubular frames for doors, windows, and ventilators with L-Type section made of 1.60mm thick M.S. Sheet, joints mitred and welded and grinded finish with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 Cement:3Coarse sand; 6 graded stone aggregate 20mm nominal size) or with woodedn plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts and require including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primers.												
A9.17.1	Profile of size 32x22x28mm (for cupboard frames)	Kg	257.52	238.57	257.52	271.84	295.42	290.65	259.84	300.20	259.84	283.56	323.92
A9.17.2	Profile of size 39x29x35mm (for window frames)	Kg	231.77	214.71	231.77	244.66	265.88	261.59	233.86	270.18	233.86	255.20	291.53
A9.17.3	Profile of size 42x32x38mm (for door frames)	Kg	224.04	207.56	224.04	236.50	257.02	252.87	226.06	261.17	226.06	246.70	281.81

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A9.18	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc.complete												
A9.18.1	Hot finished welded type tubes	Kg	141.25	132.59	141.25	147.74	158.56	156.40	142.33	160.73	142.33	153.15	171.55
A9.18.2	Hot finished seamless type tubes.	Kg	150.83	141.47	150.83	157.86	169.57	167.23	152.01	171.91	152.01	163.72	183.63
A9.18.3	Electric resistance or induction butt welded tubes.	Kg	205.63	192.20	205.63	215.70	232.48	229.13	207.31	235.84	207.31	224.09	252.63
A9.19	Providing and fixing 20x6mm mild steel 15cm long clamps for securing chick tops.	each	49.90	46.20	49.90	52.67	57.29	56.36	50.36	58.21	50.36	54.98	62.83
A9.20	Providing and fixing mild-steel rings of 6mm round bar and 40 mm internal dia for fastening ropes of chicks	each	35.10	32.50	35.10	37.05	40.30	39.65	35.43	40.95	35.43	38.68	44.20
A9.21	Providing and fixing M.S. fan clamp type I of 16 mm dia M .S. bar bent to shape with hooked ends in R.C.C. slabs during laying including painting the exposed portion of loop, all.	each	105.91	104.47	105.91	107.08	108.77	108.38	106.04	109.17	106.04	107.86	110.99
A9.22	Extra over rate of item No. A9.21 for providing and fixing M.S.fan clamp type II as per design in R.C.C. beams during laying towards the additional height of the clamp due to beam rib.	cm height	2.70	2.50	2.70	2.85	3.10	3.05	2.73	3.15	2.73	2.98	3.40
A9.23	Providing and fixing circular cast iron box for ceiling fan clamp 140, mm internal dia., 73 mm height, 5 mm thick rim, bottom and top lid of 1.5 mm M.S. sheet with its top surface hacked for proper bonding top lip shall be screwed into the cast iron box by means of 3.3mm dia., round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drwaing.	each	116.10	112.01	116.10	119.23	124.30	123.26	116.59	125.34	116.59	121.73	130.48
A9.24	Providing and fixing circular/hexagonal M.S. sheet ceiling fan box with clamp of internal dia 140 mm, 73 mm height, 3 mm thick rim, top and bottom lid of 1.5 mm M.S. sheet. Lids shall be screwed into M.S. box by means of 3 mm round headed screws, clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing with over all length as 80 cm.	each	103.06	99.93	103.06	105.46	109.33	108.53	103.43	110.13	103.43	107.36	114.06
A9.25	Providing and fixing M.S. round holding down bolts with nuts and washer	Kg	136.42	129.55	136.42	141.56	150.14	148.43	137.28	151.86	137.28	145.85	160.44
A9.26	Providing and fixing bolts upto 300 mm in length including nuts and washers	Kg	168.66	161.32	168.66	174.17	183.35	181.51	169.58	185.18	169.58	178.76	194.36

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A9.27	Providing and fixing bolts above 300 mm in length including nuts and washers complete.	Kg	168.66	161.32	168.66	174.17	183.35	181.51	169.58	185.18	169.58	178.76	194.36
A9.28	Providing and fixing M.S. rivets of sizes in position.	Kg	196.92	189.82	196.92	202.24	211.12	209.34	197.81	212.89	197.81	206.68	221.77
A9.29	Welding by gas plant including transportation of gas welding plant at site	cm length	2.61	2.42	2.61	2.75	2.99	2.95	2.63	3.04	2.63	2.87	3.28
A9.30	Welding by electric plant including transportation of welding plant at site	cm length	2.61	2.42	2.61	2.75	2.99	2.95	2.63	3.04	2.63	2.87	3.28
A9.31	Providing and fixing bright finished brass casement window fasteners of minimum weight 200 grams to side hung steel windows with necessary welding and machine screws etc.	each	78.20	74.33	78.20	81.09	85.92	84.96	78.68	86.89	78.68	83.51	91.72
A9.32	Providing and fixing bright finished brass peg stays 300 mm long of minimum weight 330 grams. to side hung steel windows with necessary welding and machine screws etc. complete.	each	159.05	149.20	159.05	166.44	178.76	176.29	160.28	181.22	160.28	172.60	193.54
A9.33	Providing and fixing bright finished brass peg stays to steel ventilators with necessary welding and machine screws etc. complete.												
A9.33.1	300 mm long of minimum weight of 330 grams.	each	160.92	148.00	160.92	169.86	184.76	181.78	162.41	187.74	162.41	177.31	202.64
A9.33.2	250 mm long of minimum weight of 280 grams.	each	143.22	131.72	143.22	151.18	164.44	161.78	144.54	167.09	144.54	157.81	180.35
A9.33.3	200 mm long of minimum weight of 240 grams.	each	127.46	117.23	127.46	134.55	146.35	143.99	128.64	148.71	128.64	140.45	160.51
A9.34	Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc complete.	each	50.11	47.21	50.11	52.28	55.91	55.18	50.47	56.63	50.47	54.10	60.25
A9.35	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc.as required.												
A9.35.1	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required all complete.	Kg	126.96	121.05	126.96	131.40	138.79	137.31	127.70	140.27	127.70	135.09	147.66
A9.35.2	In gratings, frames.ladders, railings, brackets, gates & similar works.	Kg	136.96	132.80	136.96	140.10	145.27	144.22	137.47	146.31	137.47	142.67	151.51
A9.36	Providing and fixing hand rail by welding etc. to steel ladder railing, balcony railing & staircase railing including applying a priming coat of steel primer												
A9.36.1	A10.33.1 M.S. tube (medium) 40 mm nominal bore	Kg	126.40	117.66	126.40	132.96	143.88	141.70	127.49	146.07	127.49	138.42	157.00
A9.36.2	A10.33.2 E.R.W. tubes 40 mm nominal dia	Kg	188.36	179.22	188.36	195.21	206.64	204.35	189.50	208.92	189.50	200.93	220.35
A9.36.3	A10.33.3 G.I. pipes 40 mm nominal bore (class B)	Kg	145.09	136.22	145.09	151.75	162.84	160.62	146.20	165.05	146.20	157.29	176.14

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
10.0 FLOORING													
A 10.1	Providing 100mm thick soiling with approved quality of stone including carriage, watering, ramming, consolidation .												
A 10.1.1	1:4 (1 cement : 4 coarse sand)	sqm	247.32	239.81	247.32	253.03	262.36	260.46	248.23	264.26	248.23	257.65	273.68
A 10.1.2	1:6 (1cement : 6 coarse sand)	sqm	226.50	218.98	226.50	232.21	241.55	239.64	227.41	243.45	227.41	236.83	252.87
A 10.2	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.												
A 10.2.1	25mm thick with 12.5mm nominal size stone aggregate	sqm	250.48	219.63	250.48	275.71	312.17	303.76	253.28	320.58	253.28	292.54	359.84
A 10.2.2	40mm thick with 20mm nominal size stone aggregate	sqm	329.66	290.25	329.66	361.91	408.48	397.73	333.24	419.23	333.24	383.40	469.39
A 10.2.3	50mm thick with 20mm nominal size stone aggregate	sqm	403.40	353.44	403.40	444.29	503.34	489.72	407.95	516.97	407.95	471.54	580.57
A 10.3	40mm thick red oxide flooring under layer of 30mm thick cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregat 12.5 mm nominal size) and top layer of 10mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement red oxide mix of same proportion including cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	717.71	645.94	717.71	724.89	825.36	825.36	724.89	839.71	724.89	760.77	861.25
A 10.4	Add or deduct for using more or less than 3.5 kg of red oxide of iron per 50 kg of cement in 40mm thick red oxide flooring.	sqm per extra or less kg red oxide of iron used for each 50 kg of cement	26.43	23.78	26.43	26.69	30.39	30.39	26.69	30.92	26.69	28.01	31.71

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.5	52 mm thick cement concrete flooring with "Hardcrete" concrete hardener topping under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick Hardcrete cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 stone aggregate 6 mm nominal size) by volume with which Hardcrete hardening compound of Snowcem India Ltd. or equivalent is mixed @ 2 litre Hardcrete per 50kg of cement including cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	445.19	404.88	445.19	478.12	525.81	514.84	448.89	536.78	448.89	500.17	588.07
A 10.6	62 mm thick cement concrete flooring with "Hardcrete" concrete hardener topping under layer 50 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick Hardcrete cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 stone aggregate 6mm nominal size) by volume with which Hardcrete hardening compound of Snowcem India Ltd. or equivalent is mixed @ 2 litre Hardcrete per 50kg of cement including cement slung, but excluding the cost of nosing of steps etc. complete.	Sqm	445.12	402.86	445.12	479.64	529.64	518.13	448.99	541.15	448.99	502.76	594.91
A 10.7	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.												
A 10.7.1	18 mm thick	Sqm	316.29	259.01	316.29	363.16	430.86	415.24	321.50	446.48	321.50	394.41	519.39
A 10.7.2	21 mm thick	Sqm	360.84	292.62	360.84	416.65	497.27	478.67	367.04	515.87	367.04	453.86	602.69
A 10.8	Red oxide plaster skirting (upto 30 cm height with top layer of 6 mm thick plaster of cement mortar red oxide mix, using 3.5 kg of red oxide of iron per 50 kg of cement in mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of cement red oxide mix of same proportion.												
A 10.8.1	18 mm thick with under layer 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand)	Sqm	312.67	255.39	312.67	359.54	427.24	411.62	317.88	442.86	317.88	390.79	515.77
A 10.8.2	21 mm thick with under layer 15 mm thick cement plaster 1:3 (1 cement : 3 coarse sand)	Sqm	357.22	289.00	357.22	413.03	493.65	475.04	363.42	512.25	363.42	450.24	599.07

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.9	Add or deduct for using more or less than 3.5 kg of red oxide of iron per 50 kg of cement in 18mm or 21 mm thick red oxide plaster skirting.	Sqm per extra or less kg red oxide of iron used for each 50 kg of cement	17.64	15.88	17.64	17.85	20.29	20.29	17.82	20.64	17.82	18.71	21.17
A 10.10	Cement concrete pavement with 1:2:4 (1 cement: 2 coarse sand 4 graded stone aggregate 20mm nominal size) including finishing complete	cum	8308.33	7125.90	8308.33	9275.77	10673.18	10350.70	8415.82	10995.66	8415.82	9920.72	12500.56
A 10.11	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	23.86	22.70	23.86	24.73	26.18	25.89	24.01	26.47	24.01	25.45	27.92
	TERRAZZO FLOORING												
A 10.12	40mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34mm thick cement concrete 1:2:4 (1 cement 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix: 7 marble chips) by volume including cement slurry etc. complete												
A 10.12.1	Dark shade pigment with ordinary cement.	Sqm	624.63	578.29	624.63	662.36	717.33	704.75	628.95	729.90	628.95	687.87	788.82
A 10.12.2	Light shade pigment with white cement	Sqm	824.39	763.21	824.39	873.66	946.77	930.34	830.36	963.18	830.36	907.96	1040.79
A 10.12.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	821.05	760.12	821.05	870.15	942.94	926.57	826.99	959.29	826.99	904.29	1036.59
A 10.12.4	White cement without any pigment.	Sqm	685.17	640.16	685.17	721.26	775.20	763.17	689.63	787.23	689.63	746.68	844.28
A 10.12.5	Light shade pigment with ordinary cement.	Sqm	758.31	702.06	758.31	804.10	870.85	855.59	763.57	886.11	763.57	835.09	957.63
A 10.12.6	Ordinary cement without any pigment.	Sqm	734.24	679.77	734.24	778.69	843.21	828.39	739.27	858.02	739.27	808.57	927.32

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.13	40mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4(1 cement : 2coarse sand: 4graded stone aggregate 12.5mm nominal size) and top layer 9mm thick with white, black chocolate, grey, yellow or green marble chips of sizes from 4mm to 7mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder 7 marble chips) by volume including cement slurry etc. complete.												
A 10.13.1	Dark shade pigment with ordinary cement.	Sqm	625.57	580.00	625.57	661.92	716.73	704.61	630.19	728.84	630.19	687.88	786.53
A 10.13.2	Light shade pigment with white cement	Sqm	855.48	793.00	855.48	904.68	980.46	964.06	862.13	996.85	862.13	941.01	1075.73
A 10.13.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	803.58	744.97	803.58	850.02	920.83	905.35	809.68	936.31	809.68	883.78	1010.41
A 10.13.4	White cement without any pigment.	Sqm	672.07	626.88	672.07	708.12	762.43	750.42	676.63	774.45	676.63	733.83	831.65
A 10.13.5	Light shade pigment with ordinary cement.	Sqm	759.45	704.12	759.45	803.57	870.12	855.42	765.06	884.83	765.06	835.10	954.87
A 10.13.6	Ordinary cement without any pigment.	Sqm	592.36	548.71	592.36	627.27	679.67	668.04	596.74	691.30	596.74	652.03	746.59
A 10.14	40mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28mm thick cement concrete 1:2:4 (1 cement 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) and top layer 12mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7mm to 10mm nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume including cement slurry etc. complete												
A 10.14.1	Dark shade pigment with ordinary cement.	Sqm	691.81	651.71	691.81	724.22	772.00	761.20	695.65	782.81	695.65	746.55	833.71
A 10.14.2	Light shade pigment with white cement	Sqm	975.64	916.78	975.64	1022.21	1093.35	1077.83	981.78	1108.88	981.78	1056.16	1183.27
A 10.14.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	902.91	849.46	902.91	945.62	1009.80	995.57	908.28	1024.04	908.28	975.96	1091.73
A 10.14.4	White cement without any pigment.	Sqm	788.56	741.30	788.56	825.95	883.08	870.62	793.50	895.55	793.50	853.22	955.27
A 10.14.5	Light shade pigment with ordinary cement.	Sqm	843.49	794.47	843.49	883.08	941.53	928.33	848.21	954.73	848.21	910.42	1016.94
A 10.14.6	Ordinary cement without any pigment.	Sqm	632.19	584.93	632.19	669.58	726.71	714.25	637.13	739.18	637.13	696.85	798.90

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.15	Marble chips skirting (upto 30 cm height) rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size laid in cement marble powder mix 3:1 (3 cement 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume												
A 10.15.1	18 mm thick with under layer 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand)-												
A10.15.1.1	Dark shade pigment with ordinary cement.	Sqm	791.43	744.28	791.43	829.81	885.74	872.94	795.82	898.53	795.82	855.76	958.48
A10.15.1.2	Light shade pigment with white cement	Sqm	1025.80	963.64	1025.80	1075.86	1150.12	1133.43	1031.85	1166.80	1031.85	1110.69	1245.65
A10.15.1.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	989.51	930.06	989.51	1037.65	1108.43	1092.38	995.18	1124.47	995.18	1070.67	1199.98
A10.15.1.4	White cement without any pigment.	Sqm	842.35	791.63	842.35	883.21	943.80	930.18	847.28	957.42	847.28	911.62	1021.76
A10.15.1.5	Light shade pigment with ordinary cement.	Sqm	959.73	902.49	959.73	1006.30	1074.21	1058.68	965.06	1089.73	965.06	1037.82	1162.49
A10.15.1.6	Ordinary cement without any pigment.	Sqm	935.65	880.20	935.65	980.88	1046.57	1031.48	940.77	1061.64	940.77	1011.29	1132.18
A 10.15.2	21 mm thick with under layer 15 mm thick cement plaster 1:3 (1 cement : 3 coarse sand)												
A10.15.2.1	Dark shade pigment with ordinary cement.	Sqm	811.22	762.89	811.22	850.56	907.88	894.76	815.72	920.99	815.72	877.15	982.44
A10.15.2.2	Light shade pigment with white cement	Sqm	1051.45	987.73	1051.45	1102.76	1178.87	1161.77	1057.65	1195.97	1057.65	1138.46	1276.79
A10.15.2.3	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	1014.25	953.31	1014.25	1063.59	1136.14	1119.69	1020.06	1152.58	1020.06	1097.44	1229.98
A10.15.2.4	White cement without any pigment.	Sqm	863.41	811.42	863.41	905.29	967.40	953.43	868.46	981.36	868.46	934.41	1047.30
A10.15.2.5	Light shade pigment with ordinary cement.	Sqm	983.72	925.05	983.72	1031.46	1101.07	1085.15	989.19	1116.97	989.19	1063.77	1191.55
A10.15.2.6	Ordinary cement without any pigment.	Sqm	959.04	902.21	959.04	1005.40	1072.73	1057.27	964.29	1088.18	964.29	1036.57	1160.48
A 10.16	Providing and fixing aluminium strips 40mm wide and 2mm thick in joints of terrazzo floor.	metre	84.24	78.00	84.24	88.92	96.72	95.16	85.02	98.28	85.02	92.82	106.08
A 10.17	Providing and fixing glass strips in joints of terrazzo / cement concrete floors.												
A 10.17.1	40 mm wide and 4 mm thick.	metre	30.87	29.70	30.87	31.75	33.21	32.92	31.02	33.50	31.02	32.48	34.96
A 10.17.2	40 mm wide and 6 mm thick.	metre	36.61	35.02	36.61	37.81	39.80	39.40	36.81	40.20	36.81	38.80	42.19
A 10.18	Extra for terrazzo flooring laid as floor boarders, margins and similar bands exceeding 7.5 cm but not exceeding 30 cm in width	Sqm	19.62	19.62	19.62	19.62	19.62	19.62	19.62	19.62	19.62	19.62	19.62
A 10.19	Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width including cost of forming, nosing etc.	Sqm	26.69	26.69	26.69	26.69	26.69	26.69	26.69	26.69	26.69	26.69	26.69

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.20	Extra for laying terrazzo in narrow bands not exceeding 7.5 cm in width.	metre	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
A 10.21	Extra for making moulded nosing in terrazzo including returned moulded ends and angles to mouldings.	metre	70.20	65.00	70.20	74.10	80.60	79.30	70.85	81.90	70.85	77.35	88.40
A 10.22	Special surface finishing to treads, risers and the ends of concrete steps and the like, including form work.	Sqm	34.02	31.50	34.02	35.91	39.06	38.43	34.34	39.69	34.34	37.49	42.84
A 10.23	Crazy marble stone flooring including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement: 1 part of marble powder) by weight in proportion of 4:7(4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4mm nominal size by volume) and under layer 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) rubbing, polishing and cement slurry etc. complete:												
A 10.23.1	18 mm thick crazy marble stone white, black or as specified	Sqm	1048.98	1002.52	1048.98	1086.03	1141.90	1129.55	1053.68	1154.25	1053.68	1112.49	1213.06
	TILE FLOORING												
A 10.24	Precast terrazzo tiles 22mm thick with graded marble chips of size upto 12mm laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)												
A 10.24.1	Light shade pigment with white cement	Sqm	1023.36	927.28	1023.36	1098.72	1215.52	1190.40	1033.71	1240.64	1033.71	1154.92	1361.84
A 10.24.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	772.29	694.82	772.29	833.80	927.23	906.72	780.27	947.73	780.27	878.24	1045.71
A 10.24.3	Dark shade using ordinary cement.	Sqm	675.66	610.39	675.66	727.65	806.19	788.86	682.30	823.52	682.30	764.89	906.12
A 10.24.4	Ordinary cement without any pigment	Sqm	645.37	574.64	645.37	701.95	786.85	767.99	652.46	805.71	652.46	742.05	895.30
A 10.25	Extra if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.	Sqm	27.65	27.65	27.65	27.65	27.65	27.65	27.65	27.65	27.65	27.65	27.65

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.26	Precast terrazzo tiles 22mm thick with graded marble chips of sizes upto 12 mm in skirting and risers of steps not exceeding 30 cm in height on 12 mm thick cement plaster 1:3 (1 cement :3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of:												
A 10.26.1	Light shade pigment with white cement	Sqm	1033.63	937.19	1033.63	1108.61	1226.50	1201.50	1044.35	1251.49	1044.35	1165.78	1372.92
A 10.26.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	925.79	843.14	925.79	990.28	1091.10	1069.60	934.87	1112.60	934.87	1039.02	1216.75
A 10.26.3	Dark shade using ordinary cement.	Sqm	822.19	761.70	822.19	870.22	943.18	927.17	828.43	959.19	828.43	904.93	1035.69
A 10.26.4	Ordinary cement without any pigment	Sqm	789.66	731.58	789.66	835.88	905.83	890.42	795.59	921.23	795.59	869.08	994.72
A 10.27	Precast terrazzo tiles 22mm thick with graded marble chips of sizes upto 12mm fixed on walls, on 12 mm thick cement plaster 1:3 (1 cement:3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of:												
A 10.27.1	Light shade pigment with white cement	Sqm	1012.76	917.87	1012.76	1086.58	1202.54	1177.93	1023.29	1227.15	1023.29	1142.79	1346.65
A 10.27.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	905.87	823.21	905.87	970.35	1071.18	1049.68	914.95	1092.67	914.95	1019.10	1196.82
A 10.27.3	Dark shade using ordinary cement.	Sqm	803.18	742.68	803.18	851.20	924.16	908.15	809.41	940.17	809.41	885.91	1016.67
A 10.27.4	Ordinary cement without any pigment	Sqm	760.98	702.90	760.98	807.20	877.15	861.74	766.91	892.55	766.91	840.40	966.04
A 10.28	Extra if cut tiles other than half tiles are used in risers of steps, skirting and dado	Sqm	97.20	90.00	97.20	102.60	111.60	109.80	98.10	113.40	98.10	107.10	122.40
A 10.29	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)												
A 10.29.1	Light shade pigment with white cement	Sqm	869.33	786.00	869.33	935.13	1035.99	1014.05	878.09	1057.92	878.09	983.36	1163.19
A 10.29.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	844.08	761.53	844.08	909.19	1009.17	987.47	852.80	1030.88	852.80	957.05	1135.12
A 10.29.3	Dark shade using ordinary cement.	Sqm	706.91	634.57	706.91	764.69	851.60	832.34	714.19	870.86	714.19	805.80	962.46
A 10.29.4	Ordinary cement without any pigment	Sqm	662.23	589.89	662.23	720.01	806.92	787.66	669.52	826.18	669.52	761.12	917.79

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A 10.30	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement 4 coarse sand)												
A 10.30.1	Light shade pigment with white cement	Sqm	908.35	819.33	908.35	977.81	1086.38	1063.23	918.13	1109.54	918.13	1030.30	1221.71
A 10.30.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	937.36	846.18	937.36	1008.34	1119.72	1096.06	947.46	1143.38	947.46	1062.30	1258.22
A 10.30.3	Dark shade using ordinary cement.	Sqm	825.62	742.76	825.62	890.70	991.34	969.65	834.51	1013.03	834.51	939.06	1117.59
A 10.30.4	Ordinary cement without any pigment	Sqm	783.93	704.16	783.93	846.69	943.48	922.56	792.44	964.40	792.44	893.13	1065.09
A 10.31	Chequered terrazzo tiles 30 mm thick with graded marble chips of sizes upto 12mm in stairs treads jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing, rounding of nosing etc. complete on 20 mm thick bed of:												
A 10.31.1	Cement mortar 1:4 (1 cement : 4 coarse sand)												
A10.31.1.1	Light shade pigment with white cement	Sqm	1004.17	910.85	1004.17	1077.46	1190.81	1166.38	1014.18	1215.24	1014.18	1131.93	1332.99
A10.31.1.2	Medium shade pigment with 50% white cement and 50% ordinary cement.	Sqm	930.29	842.43	930.29	999.39	1106.01	1082.98	939.68	1129.05	939.68	1050.57	1239.94
A10.31.1.3	Dark shade using ordinary cement.	Sqm	807.47	728.75	807.47	870.03	964.91	944.06	815.55	985.77	815.55	915.13	1085.34
A10.31.1.4	Ordinary cement without any pigment	Sqm	785.78	708.67	785.78	847.14	940.01	919.56	793.66	960.46	793.66	891.23	1058.03
A 10.32	Providing and fixing 10mm thick acid and or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge												
A 10.32.1	In flooring on a bed of 10 mm thick mortar 1:4 (appropriate cement :4 coarse sand)												
A10.32.1.1	Acid and alkali resistant tile	Sqm	1467.74	1358.51	1467.74	1551.09	1686.20	1658.41	1480.68	1713.98	1480.68	1617.69	1850.99
A 10.32.2	In dado / skirting on 12 mm thick mortar 1:4 (1 appropriate cement :4 coarse sand)												
A10.32.2.1	Acid and alkali resistant tile	Sqm	1510.73	1397.18	1510.73	1597.57	1737.83	1708.89	1524.09	1766.78	1524.09	1666.59	1909.27

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	STONE FLOORING												
A 10.33	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :												
A 10.33.1	Markrana Pure White Second quality	Sqm	3896.22	3617.54	3896.22	4109.82	4453.57	4382.37	3928.75	4524.77	3928.75	4278.63	4874.65
A 10.33.2	Raj nagar plain	Sqm	1813.05	1675.29	1813.05	1919.70	2088.57	2053.02	1828.61	2124.12	1828.61	2001.91	2297.43
A 10.33.3	Agaria White	Sqm	3059.56	2858.87	3059.56	3214.67	3460.94	3409.24	3082.35	3512.65	3082.35	3334.74	3765.04
A 10.33.4	Udaipur green marble	Sqm	1788.90	1651.14	1788.90	1895.55	2064.42	2028.87	1804.46	2099.97	1804.46	1977.76	2273.28
A 10.34	Extra if pigment is used in the cement slurry to match the shade of the marble slabs	Sqm	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06
A 10.35	Extra if white cement slurry is used instead of grey cement slurry	Sqm	81.57	75.50	81.57	85.88	93.72	92.28	82.45	95.16	82.45	89.96	102.67
A 10.36	Extra for nosing in marble stone for treads	metre	253.58	253.58	253.58	253.58	253.58	253.58	253.58	253.58	253.58	253.58	253.58
A 10.37	Extra for marble stone flooring in treads of steps, not exceeding 30 cm	Sqm	288.89	288.89	288.89	288.89	288.89	288.89	288.89	288.89	288.89	288.89	288.89
	KOTA STONE FLOORING												
A 10.38	Kota stone slab flooring over 20mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of 1 : 4 (1 cement : 4 coarse sand):												
A 10.38.1	25 mm thick	Sqm	1404.10	1313.64	1404.10	1475.35	1585.03	1561.28	1413.71	1608.78	1413.71	1527.92	1722.99
A 10.39	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 and jointed with grey cement slurry mixed with pigment to match the shade of the slabs. including rubbing and polishing complete.	Sqm	1448.23	1364.84	1448.23	1513.70	1615.02	1593.20	1457.19	1636.84	1457.19	1562.41	1742.06
	WOODEN FLOORING												
A10.40	25mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with :												
A10.40.1	First class teak wood	Sqm	2198.98	2198.01	2198.98	2199.70	2200.91	2200.67	2199.10	2201.15	2199.10	2200.31	2202.36
A10.40.2	Second class wood	Sqm	1940.52	1939.56	1940.52	1941.25	1942.46	1942.22	1940.65	1942.70	1940.65	1941.85	1943.91

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A10.41	Extra for planning the lower surface of wooden planking	Sqm	49.56	45.89	49.56	52.31	56.90	55.99	50.02	57.82	50.02	54.61	62.41
A10.42	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm 10cm long forked at end 60cm apart (minimum three lugs to be provided) including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.	kilogram	78.18	72.86	78.18	82.17	88.82	87.49	78.84	90.15	78.84	85.49	96.80
CERAMIC GLAZED TILES													
A10.43	Providing and fixing 1st quality ceramic glazed tiles conforming to IS : 13753 of minimum thickness 5 mm of approved make like NITCO, ORIENT, SOMANY KAJARIA, or equivalent make in all colours, shades except begundy, bottle green. black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of Cement Mortar 1:3 and jointing with grey cement slurry @ 3.3kg per Sqm including pointing in white cement mixed with pigment of matching shade.	Sqm	749.87	680.91	749.87	804.02	887.79	869.74	757.28	905.84	757.28	844.29	992.85
A10.44	Providing and laying Ceramic glazed floor tiles 300x300 mm of 1st quality conforming to IS : 13755 of NITCO, ORIENT, SOMANY KAJARIA, or equivalent make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 including pointing the joints with white cement and matching pigment etc., complete	Sqm	930.90	873.20	955.95	1020.44	1121.45	1099.95	965.08	1142.94	965.08	1069.32	1247.19
A10.45	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 13755 of NITCO, ORIENT, KAJARIA, SOMANY or equivalent make in all colours, shades except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc.	Sqm	995.63	932.71	1038.58	1122.02	1250.30	1222.49	1049.78	1278.12	1049.78	1183.46	1411.80
A10.46	Providing and laying 'INVIZA' Glazed Ceramic floor tiles 395x395 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755, NITCO or equivalent make in all colours, shades except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement: 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1223.05	1148.25	1266.00	1358.36	1501.49	1470.70	1278.69	1532.28	1278.69	1427.22	1680.81

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	11.0 CEILING												
A11.1	Providing and fixing 20mm thick wooden panel ceiling (frame work for base to be paid separately) with M.S. screws:												
A11.1.1	Teak wood	Sqm	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38	2060.38
A11.2	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately)												
A11.2.1	Natural colour insulating board												
A11.2.1.1	12 mm thick	Sqm	668.14	629.83	668.14	696.88	744.77	735.19	672.93	754.34	672.93	720.82	802.23
A11.2.1.2	18 mm thick	Sqm	912.01	855.63	912.01	954.29	1024.76	1010.67	919.06	1038.86	919.06	989.53	1109.33
A11.2.2	White face insulating board												
A11.2.2.1	12 mm thick	Sqm	840.28	789.22	840.28	878.58	942.41	929.64	846.67	955.18	846.67	910.50	1019.00
A11.2.2.2	18 mm thick	Sqm	1170.22	1094.72	1170.22	1226.85	1321.23	1302.35	1179.66	1340.10	1179.66	1274.04	1434.48
A11.2.3	Flame retardant face insulating board												
A11.2.3.1	12 mm thick	Sqm	754.21	709.53	754.21	787.73	843.59	832.42	759.80	854.76	759.80	815.66	910.62
A11.2.3.2	18 mm thick	Sqm	1041.12	975.18	1041.12	1090.57	1172.99	1156.51	1049.36	1189.48	1049.36	1131.78	1271.90
A11.3	Providing and fixing coir veneer board ISI marked (IS : 14842 - 2000), ceiling sheet with necessary nails etc., complete (frame work to be paid separately)												
A11.3.1	3mm thick	Sqm	560.56	530.21	560.56	583.31	621.24	613.65	564.35	628.82	564.35	602.28	666.75
A11.3.2	4mm thick	Sqm	897.67	842.35	897.67	939.15	1008.29	994.46	904.58	1022.12	904.58	973.72	1091.26
A11.4	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked (Novapan, Ecoboard or Bhutan Board etc.) in ceiling with necessary nails etc. complete (frame work to be paid separately):												
A11.4.1	12 mm thick	Sqm	883.32	829.07	883.32	924.01	991.82	978.26	890.10	1005.38	890.10	957.91	1073.20
A11.4.2	18 mm thick	Sqm	1091.32	1021.67	1091.32	1143.57	1230.64	1213.23	1100.03	1248.06	1100.03	1187.10	1335.13
A11.5	Providing and fixing plain A.C. sheet ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately)												
A11.5.1	4 mm thick	Sqm	452.97	430.59	452.97	469.75	497.71	492.12	455.76	503.31	455.76	483.73	531.27
A11.5.2	6 mm thick	Sqm	596.42	563.42	596.42	621.17	662.42	654.17	600.54	670.66	600.54	641.79	711.91

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A11.6	Extra for Circular cutting and waste in ceiling with:												
A11.6.1	Teak wood planks 20 mm thick	metre	416.61	401.75	416.61	427.74	446.31	442.60	418.46	450.02	418.46	437.03	468.59
A11.6.2	Natural colour insulating board												
A11.6.2.1	12 mm thick	metre	209.29	202.19	209.29	214.62	223.50	221.73	210.18	225.28	210.18	219.06	234.16
A11.6.3	White face insulating board:												
A11.6.3.1	12 mm thick	metre	230.71	222.02	230.71	237.23	248.09	245.92	231.79	250.26	231.79	242.66	261.13
A11.6.3.2	18 mm thick	metre	272.59	260.79	272.59	281.43	296.17	293.23	274.06	299.12	274.06	288.80	313.86
A11.6.4	Flame retardant face insulating board:												
A11.6.4.1	12 mm thick	metre	220.83	212.87	220.83	226.80	236.75	234.76	221.82	238.74	221.82	231.77	248.69
A11.6.4.2	18 mm thick	metre	262.77	251.70	262.77	271.07	284.90	282.14	264.15	287.67	264.15	277.99	301.50
A11.6.5	Standard quality hard board sheet:												
A11.6.5.1	3 mm thick	metre	185.92	181.23	185.92	189.43	195.30	194.12	186.50	196.47	186.50	192.37	202.33
A11.6.5.2	4.5 mm thick	metre	201.20	194.69	201.20	206.08	214.21	212.58	202.01	215.84	202.01	210.14	223.97
A11.7	Extra for providing and fixing ceiling to curved surfaces in narrow widths	metre	159.10	159.10	159.10	159.10	159.10	159.10	159.10	159.10	159.10	159.10	159.10
	RAIN WATERSPOUT AND PIPES												
A11.8	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand)												
A11.8.1	Stone ware spout	each	63.09	60.74	63.09	64.85	67.79	67.20	63.38	68.37	63.38	66.32	71.31
A11.9	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 rpm nominal size) and cost of cutting holes and making good the wall etc.												
A11.9.1	100 mm diameter	each	112.52	109.92	112.52	114.53	117.71	117.04	112.81	118.38	112.81	116.08	121.65
A11.9.2	150 mm diameter	each	140.92	136.49	140.92	144.31	149.78	148.65	141.44	150.91	141.44	147.00	156.47
A11.10	Providing lead caulked joints to sand cast iron rain water pipes												
A11.10.1	100 mm dia pipe	each	189.07	180.52	189.07	195.48	206.17	204.03	190.14	208.31	190.14	200.83	218.99
A11.10.2	150 mm dia pipe	each	253.47	241.13	253.47	262.72	278.14	275.05	255.01	281.22	255.01	270.43	296.64
A11.11	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately)												
A11.11.1	Sand cast iron plain shoes												
A11.11.1.1	150 mm diameter	each	353.49	327.30	353.49	373.13	405.86	399.31	356.76	412.40	356.76	389.49	445.13

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A11.12	Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(Single socketed pipes)												
A11.12.1	75 mm diameter	metre	174.95	164.19	174.95	183.03	196.49	193.80	176.30	199.18	176.30	189.76	212.64
A11.12.2	110 mm diameter	metre	293.23	274.21	293.23	307.50	331.27	326.52	295.61	336.03	295.61	319.38	359.81
A11.13	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion												
A11.13.1	Coupler												
A11.13.1.1	75 mm	each	143.74	133.10	143.74	151.73	165.04	162.38	145.08	167.70	145.08	158.39	181.01
A11.13.1.2	110 mm	each	187.38	173.50	187.38	197.79	215.14	211.67	189.12	218.61	189.12	206.47	235.96
A11.13.2	Single Pushfit Coupler												
A11.13.2.1	75 mm	each	177.71	164.55	177.71	187.58	204.04	200.75	179.36	207.33	179.36	195.81	223.78
A11.13.2.2	110 mm	each	250.16	231.63	250.16	264.05	287.22	282.58	252.47	291.85	252.47	275.64	315.01
A11.13.3	Single tee with door												
A11.13.3.1	75x75x75 mm	each	287.61	266.31	287.61	303.59	330.22	324.89	290.27	335.55	290.27	316.91	362.18
A11.13.3.2	110x110x110 mm	each	454.51	420.84	454.51	479.76	521.84	513.43	458.72	530.26	458.72	500.80	572.35
A11.13.4	Single tee without door												
A11.13.4.1	75x75x75 mm	each	260.87	241.55	260.87	275.37	299.52	294.69	263.29	304.35	263.29	287.44	328.51
A11.13.4.2	110x110x110 mm	each	403.50	373.61	403.50	425.91	463.27	455.80	407.23	470.74	407.23	444.59	508.10
A11.13.5	Bend 87.5°												
A11.13.5.1	75 mm bend	each	169.40	156.85	169.40	178.81	194.49	191.36	170.97	197.63	170.97	186.65	213.32
A11.13.5.2	110 mm bend	each	250.16	231.63	250.16	264.05	287.22	282.58	252.47	291.85	252.47	275.64	315.01
A11.14	Providing and fixing unplasticised -PVC pipe clips to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 and making the wall.												
A11.14.1	75 mm	each	135.14	131.61	135.14	137.78	142.19	141.30	135.58	143.07	135.58	139.98	147.47
A11.14.2	110 mm	each	168.38	162.39	168.38	172.87	180.36	178.86	169.13	181.86	169.13	176.62	189.34
A11.15	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	42.15	39.03	42.15	44.49	48.39	47.61	42.54	49.17	42.54	46.44	53.08

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
12.0 ROOFING													
A12.1	Providing corrugated G.S. sheet roofing fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.												
A12.1.1	0.80mm thick with zinc coating not less than 275gm/m ²	Sqm	989.29	930.84	989.29	1033.13	1106.20	1091.59	996.60	1120.82	996.60	1069.67	1193.89
A12.1.2	0.63mm thick with zinc coating not less than 275gm/m ²	Sqm	818.76	770.51	818.76	854.94	915.25	903.19	824.79	927.32	824.79	885.10	987.63
A12.2	Extra for providing and fixing corrugated G.S. sheets vertically or to a pitch exceeding 60 degrees.	Sqm	8.86	8.20	8.86	9.35	10.17	10.00	8.94	10.33	8.94	9.76	11.15
A12.3	Extra for providing and fixing curved C G.S. sheets in roofing												
A12.3.1	0.80 mm thick	Sqm	9.48	8.78	9.48	10.01	10.89	10.71	9.57	11.06	9.57	10.45	11.94
A12.3.2	0.63 mm thick	Sqm	7.82	7.24	7.82	8.25	8.98	8.83	7.89	9.12	7.89	8.62	9.85
A12.4	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq decimetre for chimney stacks, sky light etc.												
A12.4.1	1.60 mm thick	metre	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38	60.38
A12.4.2	1.25 mm thick	metre	48.30	48.30	48.30	48.30	48.30	48.30	48.30	48.30	48.30	48.30	48.30
A12.4.3	1.00 mm thick	metre	38.24	38.24	38.24	38.24	38.24	38.24	38.24	38.24	38.24	38.24	38.24
A12.4.4	0.80 mm thick	metre	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19
A12.4.5	0 63 mm thick	metre	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19
A12.5	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimetre												
A12.5.1	1.60 mm thick	metre	334.72	334.72	334.72	334.72	334.72	334.72	334.72	334.72	334.72	334.72	334.72
A12.5.2	1.25 mm thick	metre	262.99	262.99	262.99	262.99	262.99	262.99	262.99	262.99	262.99	262.99	262.99
A12.5.3	1.00 mm thick	metre	209.86	209.86	209.86	209.86	209.86	209.86	209.86	209.86	209.86	209.86	209.86
A12.5.4	0.80 mm thick	metre	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36
A12.5.5	0.63 mm thick	metre	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36	167.36
A12.6	Providing ridges or hips of width 60 cm over all width plain G.S.sheet fixed with polymer coated J. or L hooks, bolts and nuts 8mm dia G.I. limpet and bitumen washers complete.												
A12.6.1	0.80mm thick with zinc coating not less than 275gm/m ²	metre	634.65	605.01	634.65	656.88	693.94	686.53	638.36	701.35	638.36	675.41	738.40
A12.6.2	0.63mm thick with zinc coating not less than 275gm/m ²	metre	552.81	528.71	552.81	570.88	601.00	594.98	555.82	607.03	555.82	585.94	637.15

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A12.7	Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. limpet and bitumen washers complete.												
A12.7.1	1.60mm thick with zinc coating not less than 350gm/m ₂	metre	1011.78	950.05	1011.78	1058.07	1135.23	1119.79	1019.49	1150.66	1019.49	1096.65	1227.81
A12.8	Providing flashing of 40cm over all width in plain, G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand).												
A12.8.1	1.25mm thick with zinc coating not less than 350gm/m ₂	metre	521.22	499.93	521.22	537.19	563.80	558.48	523.88	569.12	523.88	550.49	595.74
A12.8.2	1.00mm thick with zinc coating not less than 275gm/m ₂	metre	458.33	438.36	458.33	473.32	498.29	493.29	460.83	503.28	460.83	485.80	528.25
A12.9	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.												
A12.9.1	0.80mm thick with zinc coating not less than 275gm/m ₂	metre	552.18	526.10	552.18	571.75	604.35	597.83	555.45	610.87	555.45	588.05	643.47
A12.9.2	0.63mm thick with zinc coating not less than 275gm/m ₂	metre	481.86	460.40	481.86	497.96	524.79	519.43	484.55	530.16	484.55	511.38	556.99
	NON ASBESTOS CEMENT SHEET ROOFING												
A12.10	Providing non-asbestos cement 6 mm thick corrugated sheets roofing and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers complete excluding the cost of purlins, rafters and trusses: corrugated sheets												
A12.10.1	Upto 60 degrees pitch	Sqm	455.00	423.73	455.00	478.46	517.55	509.73	458.91	525.37	458.91	498.00	564.46
A12.10.2	Above 60 degrees pitch	Sqm	463.10	431.83	463.10	486.56	525.65	517.83	467.01	533.47	467.01	506.10	572.56
A12.11	Extra for straight cutting in non - A.C. corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre for chimney stacks, skylights etc.	metre	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19
A12.12	Extra for circular cutting in non- A.C. corrugated/semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre.	metre	83.39	83.39	83.39	83.39	83.39	83.39	83.39	83.39	83.39	83.39	83.39
A12.13	Extra for providing and fixing wind ties of 40 x 6mm flat iron section	metre	133.69	123.86	133.69	141.06	153.35	150.89	134.92	155.81	134.92	147.21	168.09

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A12.14	Providing and fixing ridges and hips in non - asbestos cement sheet roofing:												
A12.14.1	One piece plain angular ridges	metre	307.03	286.66	307.03	322.31	347.78	342.68	309.58	352.87	309.58	335.04	378.34
A12.14.2	Serrated or plain wing adjustable ridges	metre	405.92	378.22	405.92	426.69	461.31	454.39	409.38	468.24	409.38	444.00	502.86
A12.14.3	Close fitting adjustable ridges	metre	518.06	482.05	518.06	545.06	590.07	581.06	522.56	599.07	522.56	567.56	644.07
A12.14.4	North light adjustable ridges	metre	405.92	378.22	405.92	426.69	461.31	454.39	409.38	468.24	409.38	444.00	502.86
A12.14.5	Unserrated adjustable hips	metre	401.55	374.18	401.55	422.08	456.30	449.46	404.97	463.15	404.97	439.19	497.37
	NON - A.C. ACCESSORIES												
A12.15	Providing and fixing non - asbestos cement roofing accessories with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete:												
A12.15.1	Apron flashing pieces	metre	290.81	270.46	290.81	306.08	331.51	326.43	293.36	336.60	293.36	318.79	362.04
A12.15.2	Eave's filler pieces	metre	221.67	206.44	221.67	233.09	252.13	248.32	223.57	255.93	223.57	242.61	274.97
A12.15.3	North light and ventilator curves	metre	521.56	484.34	521.56	549.47	595.99	586.69	526.21	605.29	526.21	572.73	651.81
A12.15.4	Barge boards	metre	310.90	288.89	310.90	327.41	354.93	349.43	313.65	360.43	313.65	341.17	387.95
A12.15.5	Ridge finials	pair	233.16	215.89	233.16	246.11	267.70	263.38	235.32	272.02	235.32	256.91	293.61
A12.15.6	Curved barge boards for north light curves	each	387.59	360.31	387.59	408.05	442.15	435.33	391.00	448.97	391.00	425.10	483.07
A12.15.7	Roof lights	each	2102.28	1947.99	2102.28	2218.00	2410.87	2372.29	2121.57	2449.44	2121.57	2314.43	2642.31
A12.15.8	Expansion joints for ridges	pair	617.93	572.16	617.93	652.26	709.48	698.04	623.66	720.92	623.66	680.87	778.14
A12.15.9	Expansion joints for north light curves	each	493.35	458.23	493.35	519.68	563.57	554.80	497.74	572.35	497.74	541.63	616.24
A12.15.10	S type louvers	metre	255.30	242.80	255.30	264.68	280.31	277.19	256.87	283.44	256.87	272.50	299.07
A12.16	Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins	metre	61.49	57.05	61.49	64.83	70.38	69.27	62.05	71.49	62.05	67.60	77.04
A12.17	Painting top of roofs with bitumen of approved quality at 17kg per 10sqm impregnated with a coat of coarse sand at 60 cum per 10sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete:												
A12.17.1	With residual type petroleum bitumen of penetration 80/100	Sqm	95.32	89.50	95.32	99.87	106.95	105.43	95.95	108.47	95.95	103.28	115.80

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	DYNA ROOFING												
A12.18	Providing trapezoidal Profiled Sheet (width 1120 mm) DYNA roofing complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.												
A12.18.1	0.40 mm thick	Sqm	1365.70	1292.27	1365.70	1420.78	1512.57	1494.21	1374.88	1530.93	1374.88	1466.68	1622.73
A12.18.2	0.50 mm thick	Sqm	1500.94	1417.85	1500.94	1563.26	1667.13	1646.36	1511.33	1687.91	1511.33	1615.20	1791.78
A12.18.3	0.60 mm thick	Sqm	1633.77	1541.01	1633.77	1703.33	1819.28	1796.09	1645.36	1842.47	1645.36	1761.31	1958.41
A12.18.4	0.80 mm thick	Sqm	1886.38	1775.27	1886.38	1969.71	2108.59	2080.82	1900.26	2136.37	1900.26	2039.15	2275.26
A12.19	Providing Plain sheet ridges, gutter, valley fixed with polymer coated J. or L hooks, bolts and nuts and Screws complete												
A12.19.1	0.40 mm thick	Metre	537.41	507.89	537.41	559.55	596.46	589.08	541.10	603.84	541.10	578.01	640.75
A12.19.2	0.50 mm thick	Metre	576.53	544.11	576.53	600.85	641.38	633.27	580.59	649.48	580.59	621.12	690.01
A12.19.3	0.60 mm thick	Metre	628.70	592.41	628.70	655.91	701.27	692.20	633.23	710.34	633.23	678.59	755.70
A12.19.4	0.80 mm thick	Metre	746.07	701.09	746.07	779.80	836.03	824.78	751.69	847.27	751.69	807.92	903.50
A12.20	Providing Pre painted DYNA steel tiles complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.												
A12.20.1	0.40 mm thick	Sqm	1483.07	1400.94	1483.07	1544.67	1647.33	1626.80	1493.34	1667.86	1493.34	1596.00	1770.52

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	13. FINISHING												
	Note:- Rates for external plaster are for height upto 10m, from ground level unless otherwise stated.												
	CEMENT PLASTER (FINE SAND)												
A13.1	12 mm Cement Plaster of mix:												
A13.1.1	1:3(1 cement:3 fine sand)	Sqm	172.12	137.02	172.12	200.84	242.30	232.74	175.31	251.88	175.31	219.98	296.54
A13.1.2	1:4(1 cement:4 fine sand)	Sqm	140.61	110.75	140.61	165.04	165.04	192.18	143.32	208.48	143.32	181.32	246.50
A13.1.3	1:6(1 cement:6 fine sand)	Sqm	122.09	90.93	122.09	147.57	184.37	175.88	124.92	192.86	124.92	164.54	232.50
A13.2	15 mm Cement Plaster on rough side of single or half brick wall of mix:												
A13.2.1	1:4(1 cement:4 fine sand)	Sqm	160.85	125.18	160.85	190.03	190.03	222.45	164.09	241.92	164.09	209.48	287.32
A13.2.2	1:6(1 cement:6 fine sand)	Sqm	144.29	107.09	144.29	174.73	218.69	208.55	147.68	228.83	147.68	195.01	276.18
A13.3	20 mm Cement Plaster of mix:												
A13.3.1	1:4(1 cement:4 fine sand)	Sqm	205.87	159.41	205.87	243.87	298.76	286.09	210.08	311.44	210.08	269.19	370.58
A13.3.2	1:6(1 cement:6 fine sand)	Sqm	181.38	132.92	181.38	221.02	278.27	265.07	185.79	291.47	185.79	247.43	353.14
	CEMENT PLASTER (COARSE SAND)												
A13.4	12 mm Cement Plaster of mix:												
A13.4.1	1:4(1 cement:4 coarse sand)	Sqm	148.78	118.91	173.21	173.21	208.50	200.37	151.49	216.65	151.49	189.51	254.66
A13.4.2	1:6(1 cement:6 coarse sand)	Sqm	132.95	101.82	132.95	158.43	195.24	186.75	135.79	203.74	135.79	175.43	243.38
A13.5	15 mm Cement Plaster on rough side of single or half brick wall of mix:												
A13.5.1	1:4(1 cement:4 coarse sand)	Sqm	171.45	135.77	171.45	200.63	242.78	233.07	174.69	252.51	174.69	220.09	297.92
A13.5.2	1:6(1 cement:6 coarse sand)	Sqm	154.78	117.59	154.78	185.22	229.18	219.04	158.17	239.34	158.17	205.51	286.68
A13.6	20 mm Cement Plaster of mix:												
A13.6.1	1:4 (1 cement:4 coarse sand)	Sqm	221.60	175.14	221.60	259.60	314.49	301.84	225.81	327.17	225.81	284.95	386.31
A13.6.2	1:6 (1 cement:6 coarse sand)	Sqm	195.05	146.62	195.05	234.69	291.94	278.74	199.46	305.17	199.46	261.12	366.83
	Cement plaster finish with a floating coat:												
A13.7	12 mm cement plaster finished with a floating coat of neat cement of mix:												
A13.7.1	1:3 (1 cement:3 fine sand)	Sqm	195.68	159.11	195.68	225.61	268.81	258.85	199.00	278.78	199.00	245.54	325.32
A13.7.2	1:4 (1 cement:4 fine sand)	Sqm	171.61	140.27	171.61	197.24	198.98	225.72	174.45	242.82	174.45	214.32	282.71
A13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:												
A13.8.1	1:3 (1 cement:3 fine sand)	Sqm	212.55	169.16	212.55	248.06	299.32	287.51	216.50	311.16	216.50	271.72	366.39
A13.8.2	1:4 (1 cement:4 fine sand)	Sqm	190.61	149.38	190.61	224.34	226.27	261.80	194.35	284.30	194.35	246.81	336.79
A13.9	20 mm (1 cement: 3 coarse sand) finished with a floating coat of neat cement:												
A13.9.1	1:3 (1 cement:3 fine sand)	Sqm	231.29	231.29	231.29	276.58	341.94	326.87	236.32	357.03	236.32	306.74	427.45

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.10	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement:												
A13.10.1	12 mm cement plaster	Sqm	187.63	151.07	187.63	217.56	260.76	250.80	190.96	270.73	190.96	237.50	317.27
A13.11	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall	Sqm	209.98	166.60	209.98	245.48	296.76	284.92	213.93	308.60	213.93	269.15	363.82
A13.12	18 mm cement plaster in two coats 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand)	Sqm	231.56	184.96	231.56	269.69	324.77	312.06	235.81	337.47	235.81	295.10	396.79
A13.13	18 mm cement plaster in two coats 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) finished rough with sponge	Sqm	252.86	204.29	252.86	292.61	350.02	336.77	257.29	363.26	257.29	319.10	425.09
	STONE DUST:												
A13.14	12 mm cement plaster 1:2 (1 cement: 2 stone dust)	Sqm	124.31	118.03	124.31	129.43	136.85	135.13	124.88	138.56	124.88	132.85	146.53
A13.15	15 mm cement plaster 1:2 (1 cement: 2 stonedust) on the rough side of single or half brick wall	Sqm	146.92	139.42	146.92	153.03	161.89	159.85	147.60	163.94	147.60	157.12	173.46
A13.16	20 mm cement plaster 1:2 (1 cement: 2 stonedust)	Sqm	188.90	179.14	188.90	196.86	208.40	205.74	189.79	211.06	189.79	202.19	223.46
	6 mm CEMENT PLASTER												
A13.17	6mm cement cement plaster of mix												
A13.17.1	1:3 (1 cement: 3 fine sand)	Sqm	117.34	98.92	117.34	132.42	154.19	149.17	119.02	159.21	119.02	142.47	182.67
A13.18	6mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams	Sqm	140.37	119.98	140.37	157.07	181.16	175.61	142.23	186.73	142.23	168.19	212.68
A13.19	Neat Cement Punning	Sqm	50.17	48.55	50.17	51.50	53.41	52.97	50.32	53.85	50.32	52.38	55.91
	ROUGH CAST PLASTER:												
A13.20	Rough cast plaster upto 10m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10mm nominal size dashed over and including the fresh plaster in two layers, under layer 12mm cement plaster 1:4 (1 cement: 4 coarse sand) and top 10top layer 10mm cement plaster 1:3 (1 cement: 3 fine sand) mixed with 10 % finely grounded hydrated lime by volume of cement:												
A13.20.1	Ordinary cement finish using ordinary cement	Sqm	215.50	162.94	215.50	258.48	320.60	306.30	220.29	334.93	220.29	287.18	401.82

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	PEBBLE DASH PLASTER:												
A13.21	Pebble dash plaster upto 10m height above ground level with a mixture of washed pebble or crushed stone 6mm to 12.5mm nominal size dashed over and including the fresh plaste in two layers 12mm cement plaster 1:4 (1 cement: 4 coarse sand) and top layer 10mm cement plaster 1:3 (1 cement: 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	Sqm	196.21	148.00	196.21	235.58	292.61	279.51	200.62	305.74	200.62	261.97	367.09
A13.22	Extra for providing and mixing water proofing material (Impermo of M/S Snowcem or equivalent) in cement plaster work in proportion resommended by the manufacturers.												
A13.22.1	12 mm cement plaster 1:3 (1 cement: 3 sand)	Sqm	14.56	13.48	14.56	15.37	16.72	16.45	14.70	16.99	14.70	16.04	18.34
A13.22.2	15 mm cement plaster 1:3 (1 cement: 3 sand)	Sqm	18.98	17.58	18.98	20.04	21.80	21.44	19.16	22.15	19.16	20.92	23.90
A13.22.3	15 mm cement plaster 1:4 (1 cement: 4 sand)	Sqm	14.02	14.02	14.02	14.80	16.10	15.84	14.15	16.36	14.15	15.45	17.66
A13.22.4	20 mm cement plaster 1:3 (1 cement: 3 sand)	Sqm	17.80	16.48	17.80	18.79	20.43	20.10	17.96	20.76	17.96	19.61	22.41
A13.22.5	20 mm cement plaster 1:4 (1 cement: 4 sand)	Sqm	13.59	12.58	13.59	14.35	15.60	15.35	13.72	15.86	13.72	14.97	17.11
A13.23	Extra for plastering exterior walls of height more than 10mm from ground level for every additional height of 3m or part thereof:	Sqm	53.25	53.25	53.25	53.25	53.25	53.25	53.25	53.25	53.25	53.25	53.25
A13.24	Extra for plastering on circular work not exceeding 6 m in radius:												
A13.24.1	In One coat:	Sqm	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77	24.77
A13.24.2	In Two coat:	Sqm	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58
A13.25	Extra for plastering done on moulding cornices or architraves including neat finish to line												
A13.25.1	In One coat:	Sqm	325.06	325.06	325.06	325.06	325.06	325.06	325.06	325.06	325.06	325.06	325.06
A13.25.2	InTwo coat:	Sqm	569.62	569.62	569.62	569.62	569.62	569.62	569.62	569.62	569.62	569.62	569.62
A13.26	Extra for plastering:												
A13.26.1	Spherical ceiling	Sqm	99.06	99.06	99.06	99.06	99.06	99.06	99.06	99.06	99.06	99.06	99.06
A13.26.2	Groined ceiling	Sqm	122.59	122.59	122.59	122.59	122.59	122.59	122.59	122.59	122.59	122.59	122.59
A13.26.3	Flewing ceiling	Sqm	61.92	61.92	61.92	61.92	61.92	61.92	61.92	61.92	61.92	61.92	61.92
A13.27	Providing and applying plaster of paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth completes:	Sqm	166.44	165.28	166.44	167.30	168.75	168.46	166.58	169.04	166.58	168.03	170.48
A13.28	Extra for lining out plaster to imitate stone or concrete blocks walling:	Sqm	13.77	13.77	13.77	13.77	13.77	13.77	13.77	13.77	13.77	13.77	13.77

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	PLAIN CEMENT MORTAR BANDS:												
A13.29	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement: 4 fine sand):												
A13.29.1	Flush Band	Cm/ Metre	3.92	3.63	3.92	4.17	4.52	4.44	3.95	4.60	3.95	4.33	4.98
A13.29.2	Sunk Band	Cm/ Metre	4.18	3.88	4.18	4.43	4.79	4.71	4.21	4.88	4.21	4.60	5.26
A13.29.3	Raised Band	Cm/ Metre	4.87	4.56	4.87	5.13	5.50	5.41	4.90	5.58	4.90	5.30	5.98
A13.29.4	Moulded Band	Cm/ Metre	7.38	7.06	7.38	7.64	8.02	7.93	7.41	8.10	7.41	7.81	8.51
A13.30	18 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement: 4 fine sand):												
A13.30.1	Flush Band	Cm/ Metre	4.25	3.83	4.25	4.60	5.10	4.98	4.29	5.21	4.29	4.83	5.75
A13.30.2	Sunk Band	Cm/ Metre	4.63	4.20	4.63	4.98	5.49	5.37	4.67	5.61	4.67	5.21	6.16
A13.30.3	Raised Band	Cm/ Metre	5.11	4.66	5.11	5.47	6.00	5.88	5.15	6.12	5.15	5.72	6.69
A13.30.4	Moulded Band	Cm/ Metre	9.57	8.21	8.72	9.13	9.73	9.59	8.76	9.87	8.76	9.41	10.52
A13.31	18mm thick moulded cement mortar band in two coat under layer 12 mm thick with cement mortar 1:5 (1 cement: 5 coarse sand) top layer 6mm thick with cement mortar 1:4 (1 cement: 4 fine sand)	Cm/ Metre	6.75	6.25	6.75	7.15	7.74	7.60	6.79	7.87	6.79	7.42	8.51
	POINTING OF BRICK & MARBLE WORK												
A13.32	Pointing on brick work or brick flooring with cement mortar 1:3 (1 Cement: 3 fine sand)												
A13.32.1	Flush/Ruled/Struk or weathered pointing:	Sqm	97.73	90.46	97.73	103.69	112.28	110.30	98.39	114.27	98.39	107.65	123.53
A13.32.2	Raised and cut pointing:	Sqm	133.96	122.80	133.96	143.09	156.27	153.23	134.97	159.31	134.97	149.17	173.51
A13.33	Pointing on tile brick work with cement mortar 1:3 (1 Cement: 3 fine sand)												
A13.33.1	Flush/Ruled/Struk or weathered pointing:	Sqm	111.84	100.69	111.84	120.97	134.15	131.11	112.86	137.20	112.86	127.05	151.39
	POINTING ON STONE WORK												
A13.34	Pointing on stone work with cement mortar 1:3 (1 Cement: 3 fine sand)												
A13.34.1	Flushed/ Ruled pointing	Sqm	126.47	120.89	126.47	131.03	137.62	136.10	126.97	139.14	126.97	134.07	146.24
A13.34.2	Raised and cut pointing	Sqm	194.34	185.13	194.34	201.89	212.77	210.26	195.18	215.29	195.18	206.91	227.02

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.35	Raised and cut pointing on stone work in white cement mortar 1:3 (1 white cement: 3 marble dust)	Sqm	220.34	211.13	220.34	227.89	238.77	236.26	221.18	241.29	221.18	232.91	253.02
A13.36	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement: 2 fine dust)												
A13.36.1	Flush/Ruled pointing	Sqm	64.12	60.48	64.12	67.09	71.39	70.40	64.45	72.38	64.45	69.08	77.01
A13.37	Extra for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
A13.38	White wash with Lime to give an even shade:												
A13.38.1	New work (three or more coat)	Sqm	10.69	10.57	10.69	10.72	10.93	10.90	10.70	10.96	10.70	10.85	11.11
A13.39	Satna lime wash on walls one coat	Sqm	5.22	5.19	5.22	5.22	5.27	5.26	5.22	5.27	5.22	5.25	5.30
A13.40	Colour washing such as green, blue or buff to give an even shade:												
A13.40.1	New work (two or more coats) with a base coat of white washing with lime	Sqm	17.03	16.91	17.03	17.06	17.27	17.24	17.04	17.30	17.04	17.19	17.45
A13.40.2	New work (two or more coats) with a base coat of whitening	Sqm	15.93	15.81	15.93	15.96	16.16	16.13	15.94	16.19	15.94	16.09	16.34
A13.41	Distempering with dry distemper of approved brand and manufacture (two or more coats) and of required shades on new work, over and including priming coat of whitening to give an even shade	Sqm	49.66	49.16	49.66	49.78	50.65	50.53	49.72	50.77	49.72	50.34	51.40
A13.42	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade:												
A13.42.1	New work (two or more coats) over and including priming coat with cement primer	Sqm	68.41	67.32	68.47	68.69	70.60	70.32	68.55	70.87	68.55	69.91	72.23
A13.43	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete, as per manufacturer's specification:												
A13.43.1	Two or more coats on new work:	Sqm	41.40	40.67	41.40	41.58	42.85	42.67	41.49	43.04	41.49	42.40	43.94
A13.44	Applying one coat of cement primer of approved brand and manufacture on wall surface:												
A13.44.1	Cement Primer	Sqm	31.65	31.02	31.65	31.80	32.90	32.74	31.73	33.05	31.73	32.51	33.83
	EXTERIOR FINISHING												
A13.45	Finishing walls with water proofing cement paint "snowcem - plus" of M/s snowcem India Ltd. Or equivalent of required shade:												
A13.45.1	New work (Two or more coat applied @ 3.84 kg/10 sqm)	Sqm	46.89	44.96	46.89	47.37	50.73	50.25	47.13	51.21	47.13	49.53	53.61

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.46	Finishing walls with textured exterior paint "Sandtex Matt" of M/s snowcem India Ltd. Or equivalent of required shade:												
A13.46.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm	Sqm	188.92	180.76	188.92	190.95	205.23	203.19	189.93	207.27	189.93	200.13	217.46
A13.47	Finishing walls with Acrylic Smooth exterior paint "Trump" of M/s snowcem India Ltd. Or equivalent of required shade:												
A13.47.1	New work (Two or more coats applied @ 1.67ltr/10 sqm) over and including base coat of water proofing cement paint snowcem plus or equivalent applied @ 2.20 kg/10 sqm	Sqm	99.98	96.37	99.98	100.88	107.19	106.29	100.43	108.09	100.43	104.94	112.60
A13.48	Finishing walls with premium Acrylic Smooth exterior paint with silicone additives "snowcryl - XT" of M/s snowcem India Ltd. Or equivalent of required shade:												
A13.48.1	New work (Two or more coats applied @ 1.43ltr/10 sqm) over and including base coat of water proofing cement paint snowcem plus or equivalent applied @ 2.20 kg/10 sqm	Sqm	120.97	116.36	120.97	122.12	130.18	129.03	121.55	131.33	121.55	127.30	137.09
A13.49	Finishing walls with Delux Multi surface paint system "Uni-Gloss" of M/s snowcem India Ltd. Or equivalent for interior using Priming as per manufactures Specifications:												
A13.49.1	Two or more coats applied @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm.	Sqm	124.10	119.45	124.10	125.26	133.40	132.24	124.68	134.57	124.68	130.50	140.38
A13.49.2	Painting wood work with Delux Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand or manufacture:	Sqm	101.70	98.15	101.70	102.59	108.80	107.91	102.15	109.69	102.15	106.58	114.13
A13.49.3	Painting wood work with Delux Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.80 ltr/10 sqm of approved brand or manufacture:	Sqm	103.17	99.37	103.17	108.45	108.45	109.81	103.64	111.71	103.64	108.39	116.46
A13.50	Extra for applying water proofing cement paint as primer applied @2.2kg/10 sqm instead of primer for exterior finishing in item no. A13.49.1	Sqm	5.38	4.98	5.38	5.48	6.18	6.08	5.43	6.28	5.43	5.93	6.78

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.51	Applying Primiming coat:												
A13.51.1	With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	27.54	26.88	27.54	27.70	28.85	28.69	27.62	29.02	27.62	28.44	29.84
A13.51.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	28.91	28.31	28.91	29.06	30.11	29.96	28.99	30.26	28.99	29.73	31.00
A13.51.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on on steel galvanised iron/steel work:	Sqm	21.00	20.60	21.00	21.10	21.81	21.71	21.05	21.91	21.05	21.56	22.41
A13.51.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on on steel work (second coat):	Sqm	12.59	12.32	12.59	12.66	13.13	13.06	12.62	13.20	12.62	12.96	13.53
A13.52	Painting one thin coat with white lead of approved brand and manufacture on wet or patchy portion of plastered surface:	Sqm	38.65	37.40	38.65	38.96	41.15	40.84	38.81	41.46	38.81	40.37	43.02
A13.53	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete												
A13.53.1	On Steel Works:	Sqm	85.88	80.91	85.88	87.12	95.81	94.57	86.50	97.05	86.50	92.71	103.26
A13.53.2	On Concrete Works:	Sqm	90.63	85.56	90.63	91.89	100.76	99.50	91.26	102.03	91.26	97.60	108.36
A13.54	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:												
A13.54.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution	Sqm	72.59	70.94	72.59	73.01	75.90	75.49	72.80	76.31	72.80	74.87	78.38
A13.55	Applying a coat of mordant solution on G.S. sheet												
A13.55.1	With a solution of 38gms of copper acetate in a litre of soft water.	Sqm	20.88	20.48	20.88	20.98	21.67	21.57	20.93	21.77	20.93	21.42	22.27
A13.55.2	With a solution of 13gms of copper hydrochloric acid in a solution of 13gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water.	Sqm	18.51	18.48	18.51	18.52	18.57	18.57	18.52	18.58	18.52	18.55	18.62
A13.56	Painting (two or more coats) on rain water soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint approved brand and manufacture over and including a priming coat of ready mixed chromate yellow primer on new work:												
A13.56.1	100 mm Diameter pipes	Sqm	25.38	25.01	25.38	25.47	26.12	26.03	25.43	26.21	25.43	25.89	26.68
A13.56.2	150 mm Diameter pipes	Sqm	40.25	39.69	40.25	40.39	41.38	41.24	40.32	41.52	40.32	41.03	42.23
A13.57	Painting (two or more coats) on rain water soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work												
A13.57.1	100 mm Diameter pipes	Sqm	31.00	30.55	31.00	31.11	31.90	31.79	31.05	32.01	31.05	31.62	32.57
A13.57.2	150 mm Diameter pipes	Sqm	41.93	41.24	41.93	42.10	43.31	43.14	42.02	43.48	42.02	42.88	44.34

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.58	Painting with oil type wood preservative of approved brand and manufacture												
A13.58.1	New Work (Two or more coat)	Sqm	22.75	22.00	22.75	22.94	24.26	24.07	22.84	24.45	22.84	23.79	25.39
A13.59	Providing and applying two coat of fire retardant paint FR 881 unthinned on cleaned wood/ ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendation of manufacturer to make the surface fire retardant.	Sqm	223.60	208.31	223.60	227.42	254.16	250.34	225.51	257.98	225.51	244.61	277.08
A13.60	Coal tarring two coats on new work using 0.16 and 0.12 litre coal tar per sqm in the first and second coat respectively	Sqm	25.33	24.76	25.33	25.48	26.48	26.33	25.40	26.62	25.40	26.12	27.34
A13.61	Wall painting with plastic emulsion paint of approved brand and manufacture to give even shade												
A13.61.1	Two or more coats on new work	Sqm	74.98	72.75	74.98	75.54	79.44	78.89	75.26	80.00	75.26	78.05	82.79
A13.62	Painting with synthetic enamel paint of approval brand and manufacture to give an even shade												
A13.62.1	Two or more coats on new work	Sqm	68.91	67.37	68.91	69.30	72.00	71.62	69.10	72.39	69.10	71.04	74.32
A13.63	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade												
A13.63.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	86.12	83.86	86.12	86.69	90.65	90.09	86.40	91.22	86.40	89.24	94.05
A13.64	Painting with aluminium enamel paint of approved brand and manufacture to give an even shade:												
A13.64.1	Two or more coats on new work	Sqm	47.76	46.89	47.76	47.97	49.49	49.27	47.86	49.70	47.86	48.95	50.79
A13.65	Painting with acid proof paint of approved brand and manufacture to give an even shade												
A13.65.1	Two or more coats on new work	Sqm	55.34	53.94	55.34	55.69	58.14	57.79	55.52	58.49	55.52	57.27	60.24
A13.66	Painting with black anti corrosive bitumastic paint of approved brand and manufacture to give an even shade												
A13.66.1	Two or more coats on new work	Sqm	42.31	41.69	42.31	42.47	43.56	43.40	42.39	43.71	42.39	43.17	44.49
A13.67	Floor Painting with floor enamel paint of approved brand and manufacture to give an even shade												
A13.67.1	Two or more coats on new work	Sqm	63.82	61.88	63.82	64.30	67.69	67.20	64.06	68.17	64.06	66.48	70.59
A13.68	Varnishing with varnish of approved brand and manufacture:												
A13.68.1	wo or more coat of glue sizing with copal varnish over an under coat of flatting varnish.	Sqm	121.14	119.15	121.14	121.64	125.12	124.63	121.39	125.62	121.39	123.88	128.11
A13.68.2	Two or more coat of glue sizing with spar varnish over an under coat of flatting varnish.	Sqm	129.19	127.07	129.19	129.72	133.43	132.90	129.45	133.96	129.45	132.11	136.62
A13.69	French Spirit polishing												
A13.69.1	Two or more coats on new works including a coat of wood filler.	Sqm	183.96	182.70	183.96	184.27	186.47	186.16	184.11	186.78	184.11	185.68	188.36

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.70	Polishing on wood work with ready made wax polish approved brand and manufacture												
A13.70.1	New Work	Sqm	91.87	91.12	91.87	92.06	93.38	93.19	91.97	93.57	91.97	92.91	94.51
A13.71	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture	Sqm	30.02	29.87	30.02	30.06	30.32	30.28	30.04	30.36	30.04	30.22	30.54
A13.72	Lettering with Black Japan paint of approved brand and manufacture	Sqm	6.19	6.18	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
A13.73	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level in two layers, under layer 12 mm cement plaster 1:4 (1 cement: 4 coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 kg of cement per square metre, top layer 15 mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand: 2 stone chipping 10 mm nominal size) in panels with groove all around as per approval pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippin, complete as per specification and direction of Engineer-in-Chief (Payment for providing grooves shall be made separately)	Sqm	248.36	216.26	248.36	274.50	312.55	303.84	251.33	321.27	251.33	292.15	362.09
A13.74	Forming groove of uniform size in the top layer of washed stone grit as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edge of panels and finishing the groove complete as per specifications and direction of the Engineer-in-Chief:												
A13.74	15mm wide and 15mm deep groove	Sqm	23.87	23.87	23.87	23.87	23.87	23.87	23.87	23.87	23.87	23.87	23.87
A13.74.1	20mm wide and 15mm deep groove	Sqm	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62
A13.75	Extra for washed grit plaster on exterior walls of height more than 10m from ground level for every additional height of 3m or part thereof:	Sqm	34.04	34.04	34.04	34.04	34.04	34.04	34.04	34.04	34.04	34.04	34.04
A13.76	Extra for washed stone grit plaster on circular work not exceeding 6m in radius (in two coats)	Sqm	39.66	39.66	39.66	39.66	39.66	39.66	39.66	39.66	39.66	39.66	39.66
A13.77	Forming groove of uniform size from 12*12 mm and upto 25*15 mm in plastered surface as per approved pattern using wooden battens, nailed to the layer including removal of wooden battens, repairs to the edge of plaster panel and finishing the groove complete as per specifications and direction of the engineer-in-Chief	Metre	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40	24.40

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A13.78	Extra for using white cement in place of ordinary cement in the to layer of the item of washed stone grit plaster.	Sqm	118.71	109.86	118.71	124.94	136.40	134.32	120.01	138.47	120.01	130.93	149.40
A13.79	Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite /perlite respectively conforming toIS:2547 (part- I & II) 1976, applied on hacked/ uneven background such as bare brick/block/RCC work on walls and ceiling at all floors and locations, finishing in smooth line and level etc complete.	Sqm	237.05	220.51	237.05	249.46	270.14	266.00	239.12	274.28	239.12	259.80	294.95
A13.80	ADMIXTURES												
A13.80.1	Applying Anti stripping & Adhesion improving compound such as SUPER BOND- XS (ISI Marked) @ 1% by weight of bitumen	Sqm	185.00	185.00	185.00	185.00	185.00	185.00	185.00	185.00	185.00	185.00	185.00
A13.80.2	Applying Instant road repair materials such as OPAL PATCHMASTER in bags of 25 kgs and tamped manually	Sqm	260.00	260.00	260.00	260.00	260.00	260.00	260.00	260.00	260.00	260.00	260.00
A13.80.3	Applying Rubber modifier for bitumen such as OPAL RAM @ 10% by weight of bitumen on road road surface and repair of cracks.	Sqm	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
A13.80.4	Applying Themrmoplastic road marking paint such as OPAL	Sqm	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
A13.80.5	Applying Silicone based water repellent for building such as WAPCOT on finished surfaces of painted surfaces of building.	Sqm	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
A13.80.6	Applying 2 pack polymer based water proofing system such as OPAL GUARD on roofs, water tank, etc. requiring water proofing.	Sqm	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00	190.00
A13.80.7	Applying Polymer based water proofing compound such as OPAL KREET in 1:2 (1opal: 2 Kreet) ratio & slurry to be applied on cracks and surfaces of affected areas.	Sqm	340.00	340.00	340.00	340.00	340.00	340.00	340.00	340.00	340.00	340.00	340.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
14. REPAIRS TO BUILDING													
A14.1	Repairs to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape, racking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish of the dumping ground within 50 meterr lead.												
A14.1.1	With cement mortar1:4 (1 cement: 4 fine sand)	Sqm	161.76	141.32	161.76	178.48	178.48	197.05	163.61	208.20	163.61	189.62	234.21
A14.1.2	With cement mortar1:4 (1 cement: 4 coarse sand)	Sqm	170.31	149.88	170.31	187.03	211.18	205.61	172.17	216.75	172.17	198.18	242.77
A14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground wiyhin 50 mm metres lead:												
A14.2.1	DOOR CHOWKHATS	Each	578.78	520.97	578.78	628.86	701.19	684.50	584.35	717.88	584.35	662.23	795.77
A14.2.2	WINDOW CHOWKHATS	Each	397.65	366.95	397.65	424.32	462.84	453.96	400.62	471.73	400.62	442.10	513.22
A14.2.3	CLERESTORY WINDOW CHOWKHAT	Each	305.65	290.30	305.65	318.99	338.25	333.81	307.14	342.69	307.14	327.88	363.44
A14.3	Fixing chowkhat in existing opening in brick/RCC wall with dash fasteners/chemical fastners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos. on each vertical member and 1 no. on each horizontal member of window chowkhat) including cost of dash fasteners/chemical fasteners.	Each	134.77	125.81	134.77	141.49	152.69	150.45	135.89	154.93	135.89	147.09	166.13
A14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete to match existing surface i.e. disposal of mulba/rubbish to the nearest dumping ground.												
A14.4.1	For door/ window/ clerestory window	Each	296.90	285.06	296.90	306.58	320.58	317.35	297.98	323.80	297.98	313.04	338.87
A14.5	Renewing glass panes, with putty and nails wherever necessary												
A14.5.1	Float glass panes of thickness 4 mm/Glass panes weighing 10 kg/sqm	Sqm	586.08	553.16	586.08	610.77	651.91	643.68	590.19	660.14	590.19	631.34	701.29
A14.5.2	Float glass panes of thickness 5.5 mm/ Glass panes weighing 13.75 kg/sqm	Sqm	725.15	681.94	725.15	757.57	811.59	800.79	730.56	822.39	730.56	784.58	876.42
A14.6	Renewing glass panes, with wooden fillets wherever necessary												
A14.6.1	Float glass panes of thickness 4 mm/Glass panes weighing 10 kg/sqm	Sqm	661.44	630.84	661.44	684.39	722.64	714.99	665.26	730.29	665.26	703.52	768.55
A14.6.2	Float glass panes of thickness 5.5 mm/Glass panes weighing 13.75 kg/sqm	Sqm	799.15	758.34	799.15	829.75	880.75	870.55	804.25	890.95	804.25	855.25	941.96

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A14.7	Renewing glass panes and refixing existing wooden fillets:												
A14.7.1	Float glass panes of thickness 4 mm/Glass panes weighing 10 kg/sqm	Sqm	607.96	576.75	607.96	631.37	670.38	662.58	611.86	678.18	611.86	650.87	717.19
A14.7.2	Float glass panes of thickness 5.5 mm/Glass panes weighing 13.75 kg/sqm	Sqm	748.40	706.79	748.40	779.61	831.62	821.22	753.60	842.02	753.60	805.62	894.04
A14.8	Supplying and fixing new wooden fillets wherever necessary:												
A14.8.1	2nd class teak wood fillets	Sqm	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83
A14.8.2	2nd class Hollock wood fillets	Sqm	18.52	18.52	18.52	18.52	18.52	18.52	18.52	18.52	18.52	18.52	18.52
A14.9	Renewal of old putty of glass panes (length)	Metre	14.35	14.19	14.35	14.47	14.67	14.63	14.37	14.71	14.37	14.57	14.90
A14.10	Refixing old glass panes with putty and nails	Metre	154.80	152.73	154.80	156.35	158.94	158.42	155.06	159.46	155.06	157.65	162.04
A14.11	Fixing old glass panes with wooden fillets (excluding cost of fillets)	Sqm	139.54	139.54	139.54	139.54	139.54	139.54	139.54	139.54	139.54	139.54	139.54
A14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase and making good and painting exposed portion of the clamps complete	Each	128.97	128.37	128.97	129.46	130.16	130.00	129.02	130.32	129.02	129.78	131.08
A14.13	Regarding terracing of mud phaska covered with tiles or brick, in cement by dismantling tiles or bricks, removing mud plaster preparing the surface of mud phaska to proper slope relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement: 3 fine sand) including replacing unserviceable tiles or bricks with ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded) within 50 metres lead	Sqm	167.98	151.86	167.98	181.08	200.23	195.87	169.50	204.60	169.50	228.61	225.09
A14.14	Replacing sand stone slabs in roofing laid in cement mortar 1:4 (1 cement : 4 coarse sand) including necessary repairs and cement pointing with same mortar complete including disposal of rubbish to dumping ground within 50 metres of lead :												
A14.14.1	Red/ White sand stone slabs 30 to 50 mm thick	Sqm	486.67	462.32	486.67	505.20	535.37	529.19	489.58	541.54	489.58	520.11	572.07
A14.15	Renewing wooden battens in roofs,including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete including removal of rubbish to the dumping ground within 50 metres lead :												
A14.15.1	Sal wood battens	Cum	40029.47	39999.70	40029.47	40051.80	40089.01	40081.57	40033.19	40096.46	40033.19	40070.41	40133.67

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A14.16	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete including removal of rubbish to the dumping ground within 50 metres lead:												
A14.16.1	Not exceeding 4.00 metres in length.												
A14.16.1.1	Sal Wood batten	Cum	41109.94	41072.44	41109.94	41138.07	41184.95	41175.57	41114.63	41194.32	41114.63	41161.51	41241.20
A14.16.1.2	Hollock wooden beam	Cum	38163.45	38125.94	38163.45	38191.57	38238.45	38229.07	38168.13	38247.82	38168.13	38215.01	38294.70
A14.16.2	Above 4.00 metres and upto 5.00 metres length												
A14.16.2.1	Sal wood beam	Cum	41743.88	41701.19	41743.88	41775.89	41829.24	41818.57	41749.21	41839.92	41749.21	41802.57	41893.27
A14.16.2.2	Hollock wooden beam	Cum	38963.09	38930.92	38963.09	38987.22	39027.43	39019.39	38967.11	39035.47	38967.11	39007.32	39075.68
A14.17	Raking out joints in lime or cement mortar and preparing the surface for repainting or replastering including disposal of rubbish to the dumping ground within 50 metres lead	Sqm	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37
A14.18	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska:												
A14.18.1	With F.P.S. brick tiles	Sqm	29.42	25.79	29.42	32.39	36.68	35.70	29.75	37.67	29.75	34.37	42.30
A14.18.2	With modular brick tiles	Sqm	31.23	27.11	31.23	34.59	39.46	38.34	31.60	40.58	31.60	36.84	45.82
A14.19	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	Kg	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
A14.20	Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand.	Metre	43.99	41.37	44.21	45.90	49.24	48.58	44.32	49.89	44.32	47.60	53.17
A14.21	Renewing bottom rail and / or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	Kg	86.70	79.80	93.34	92.08	100.50	98.70	87.45	102.30	87.45	96.15	111.00
A14.22	Renewing Wrought Iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.												
A14.22.1	Wheel 50 mm dia. and below.	Per Wheel	133.18	123.71	133.18	140.27	152.10	149.74	134.36	154.47	134.36	146.19	166.29
A14.22.2	Wheel above 50 mm dia.	Per Wheel	178.97	167.04	178.97	187.91	202.82	199.84	180.46	205.80	180.46	195.37	220.71

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	EARTHWORK												
A14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	Kilolitre	44.29	44.29	44.29	44.29	44.29	44.29	44.29	44.29	44.29	44.29	44.29
	Note for item no. A14.23:- This pertains to only such pumping of water as is envisaged at the time of tendering and do not include those that need be covered under contractual risk.												
A14.24	Mud Mortar	Cum	214.45	212.71	214.45	215.76	217.94	217.51	214.67	218.38	214.67	216.85	220.56
A14.25	Brick work with bricks of class designation 75 in mud mortar	Cum	2938.16	2068.20	2938.16	3649.93	4678.08	4440.83	3017.26	4915.34	3017.26	4124.47	6022.56
A14.26	Providing and fixing 25 mm thick shutters for cup board etc.												
A14.26.1	Panelled or panelled & glazed shutters												
A14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	3683.06	3665.66	3683.06	3696.11	3717.86	3713.51	3685.23	3722.21	3685.23	3706.98	3743.96
A14.26.1.2	Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	2270.80	2253.40	2270.80	2283.86	2305.61	2301.26	2272.98	2309.96	2272.98	2294.73	2331.71
A14.26.2	Glazed shutters												
A14.26.2.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	3613.99	3580.69	3613.99	3638.97	3680.59	3672.27	3618.16	3688.92	3618.16	3659.78	3730.54
A14.26.2.2	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	2201.74	2168.44	2201.74	2226.72	2268.34	2260.02	2205.90	2276.66	2205.90	2247.53	2318.29
A14.27	Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately) including fixing 50x12 mm beading complete with:												
A14.27.1	Second class teak wood	Sqm	1935.58	1832.32	1935.58	2013.03	2142.12	2116.30	1948.49	2167.93	1948.49	2116.30	2297.02
A14.28	Providing and fixing curtain rods of 1.25 mm thick brass plates with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.												
A14.28.1	20 mm diameter	Sqm	162.09	150.08	162.09	171.09	186.10	183.10	163.59	189.10	163.59	183.10	204.11
A14.28.2	25 mm diameter	Sqm	190.09	176.01	190.09	200.65	218.25	214.73	191.85	221.77	191.85	214.73	239.38
A14.29	Providing and fixing M.S. round or square bars at required spacings in wooden frame of windows and clerestory Windows	Kg	46.21	45.21	46.21	47.00	48.21	47.95	46.31	48.47	46.31	47.75	49.74
A14.30	Providing joists (karries) including hoisting fixing in position and applying wood preservative on unexposed surface etc. complete with:												
A14.30.1	Sal wood	Cum	38909.29	38903.22	38909.29	38910.83	38921.51	38919.98	38910.02	38923.05	38910.02	38917.71	38930.66
A14.30.2	Hollock wood	Cum	37093.03	37065.84	37093.03	37099.83	37147.42	37140.63	37096.43	37154.22	37096.43	37130.43	37188.22

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A14.31	Providing and fixing bright finished brass single acting spring hinges with necessary screws etc. complete												
A14.31.1	150 mm	Each	328.18	307.49	328.18	343.70	369.57	364.40	330.77	374.74	330.77	364.40	400.61
A14.31.2	125 mm	Each	282.06	264.78	282.06	295.02	316.61	312.29	284.22	320.93	284.22	312.29	342.53
A14.31.3	100 mm	Each	226.18	213.04	226.18	236.04	252.46	249.18	227.83	255.75	227.83	249.18	272.17
A14.32	Providing and fixing bright finished brass double acting spring hinges with necessary screws etc. complete												
A14.32.1	150 mm	Each	492.91	460.01	492.91	517.58	558.70	550.47	497.02	566.92	497.02	550.47	608.04
A14.32.2	125 mm	Each	370.89	345.31	370.89	390.07	422.04	415.64	374.08	428.43	374.08	415.64	460.40
A14.32.3	100 mm	Each	291.95	273.44	291.95	305.83	305.83	324.34	294.26	333.59	294.26	324.34	356.73
A14.33	Providing and fixing bright finished brass flush bolts with necessary screws etc. complete												
A14.33.1	250 mm	Each	154.39	143.49	154.39	162.56	176.18	173.45	155.75	178.90	155.75	173.45	192.52
A14.33.2	150 mm	Each	113.76	105.79	113.76	119.73	129.69	127.69	114.75	131.68	114.75	127.69	141.63
A14.33.3	100 mm	Each	80.81	75.29	80.81	84.95	91.86	90.48	81.50	93.24	81.50	90.48	100.15
A14.34	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, screws etc. to suit shutter thickness complete	Each	189.60	175.58	189.60	200.12	217.64	217.64	191.35	221.14	191.35	214.13	238.66
A14.35	Providing and fixing bright finished brass hard drawn hooks and eyes												
A14.35.1	300 mm	Each	69.80	65.43	69.80	73.07	78.52	77.43	70.34	79.61	70.34	77.43	85.06
A14.35.2	250 mm	Each	65.87	61.80	65.87	68.92	74.01	72.99	66.38	75.03	66.38	72.99	80.12
A14.35.3	200 mm	Each	61.94	58.16	61.94	64.78	69.50	68.56	62.42	70.45	62.42	68.56	75.18
A14.35.4	150 mm	Each	58.67	55.13	58.67	61.33	65.75	64.86	59.11	66.63	59.11	64.86	71.06
A14.35.5	100 mm	Each	51.47	48.47	51.47	53.73	57.48	56.73	51.85	58.24	51.85	56.73	61.99
A14.36	Providing and fixing bright finished brass fan light pivot with necessary screws etc. complete.	Each	31.66	29.44	31.66	33.31	36.08	35.52	31.93	36.63	31.93	35.52	39.39
A14.37	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary screws etc. complete.	Each	27.21	25.33	27.21	28.62	30.97	30.50	27.44	31.44	27.44	30.50	33.79
A14.38	Providing and fixing bright finished brass quadrant stay 300mm long with necessary screws etc. complete.	Each	130.37	120.74	130.37	137.60	149.64	147.23	131.58	152.05	131.58	147.23	164.10
A14.39	Providing and fixing bright finished brass helical door spring (superior quality).	Each	367.95	340.98	367.95	388.17	421.88	415.14	371.32	428.63	371.32	415.14	462.34
A14.40	Providing and fixing chromium plated brass butt hinges with necessary screws etc. complete.												
A14.40.1	125x70x4 mm (ordinary type)	Each	103.05	95.97	103.05	108.35	117.20	115.43	103.93	118.97	103.93	115.43	127.81
A14.40.2	100x70x4 mm (ordinary type)	Each	92.04	85.55	92.04	96.91	105.03	103.41	103.41	106.66	92.85	103.41	114.77
A14.40.3	75x65x4 mm (heavy type)	Each	94.02	87.61	94.02	98.82	106.83	105.23	94.82	108.43	94.82	105.23	116.44
A14.40.4	75x40x2.5 mm (ordinary type)	Each	41.67	39.14	41.67	43.57	46.73	46.10	41.99	47.36	41.99	46.10	50.52
A14.40.5	50x40x2.5 mm (ordinary type)	Each	26.33	24.60	26.33	27.63	29.80	29.37	26.55	30.24	26.55	29.37	32.41

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A14.41	Providing and fixing 85x42mm chromium plated brass pull bolt lock with necessary screws, nuts, bolts and washers etc. complete	Each	202.77	188.42	202.77	231.46	231.46	227.88	204.56	235.05	204.56	227.88	252.98
A14.42	White washing with lime to give an even shade:												
A14.42.1	Old work (two or more coats)	Sqm	5.27	5.18	5.27	5.33	5.44	5.42	5.28	5.46	5.28	5.42	5.57
A14.42.2	Old work (one or more coats)	Sqm	3.03	2.99	3.03	3.06	3.12	3.11	3.04	3.13	3.04	3.11	3.18
A14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
A14.44	Distemping with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	Sqm	17.74	17.45	17.74	17.96	18.33	18.25	17.78	18.40	17.78	18.25	18.77
A14.45	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade												
A14.45.1	Old work (one or more coats)	Sqm	20.11	19.64	20.11	20.46	21.05	20.93	20.17	21.17	20.17	20.93	21.75
A14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
A14.47	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:												
A14.47.1	Old work (one or more coats)	Sqm	24.36	23.92	24.36	24.70	25.26	25.15	24.42	25.37	24.42	25.15	25.94
A14.48	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work:												
A14.48.1	75 mm diameter pipes	Metre	16.04	15.78	16.04	16.24	16.57	16.51	16.51	16.64	16.08	16.51	16.97
A14.49	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work:												
A14.49.1	75 mm diameter pipes	Metre	6.98	6.89	6.98	7.06	7.17	7.15	7.00	7.20	7.00	7.15	7.32
A14.50	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with, aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work.												
A14.50.1	75 mm diameter pipes	Metre	16.80	16.48	16.80	17.04	17.44	17.36	16.84	17.52	16.84	17.36	17.93

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A14.51	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work:												
A14.51.1	75 mm diameter pipes	Metre	8.68	8.54	8.68	8.79	8.97	8.93	8.70	9.00	8.70	8.93	9.18
A14.51.2	100 mm diameter pipes	Metre	11.22	11.03	11.22	11.36	11.59	11.55	11.24	11.64	11.24	11.55	11.87
A14.51.3	150 mm diameter pipes	Metre	16.53	16.26	16.53	16.74	17.08	17.02	16.57	17.15	16.57	17.02	17.50
A14.52	Painting with oil type wood preservative of approved brand and manufacture												
A14.52.1	Old work (one or more coats)	Sqm	13.50	12.90	13.50	13.94	14.68	14.53	13.57	14.83	13.57	14.53	15.57
A14.53	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:												
A14.53.1	One or more coats on old work.	Sqm	35.62	343.36	356.19	365.81	381.84	378.63	357.79	385.05	357.79	378.63	401.08
A14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:												
A14.54.1	One or more coats on old work.	Sqm	30.29	29.41	30.29	30.96	32.07	31.85	30.41	32.29	30.41	31.85	33.40
A14.55	Painting with aluminium paint of approved brand and manufacture to give an even shade .												
A14.55.1	One or more coats on old work.	Sqm	25.77	25.29	25.77	26.12	26.71	26.59	25.82	26.83	25.82	26.59	27.42
A14.56	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade:												
A14.56.1	One or more coats on old work.	Sqm	29.37	28.55	29.37	29.99	31.01	30.81	29.47	31.22	29.47	30.81	32.24
A14.57	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade:												
A14.57.1	One or more coats on old work.	Sqm	23.19	22.82	23.19	23.46	23.91	23.82	23.23	24.00	23.23	23.82	24.45
A14.58	French spirit polishing												
A14.58.1	One or more coats on old work.	Sqm	51.21	50.58	51.21	51.69	52.47	52.32	51.29	52.63	51.29	52.32	53.42
A14.59	Polishing on wood work with ready made wax polish of approved brand and manufacture												
A14.59.1	Old work	Sqm	23.08	22.72	23.08	23.36	23.81	23.72	23.13	23.90	23.13	23.72	24.36
A14.60	Re-lettering with black Japan paint of approved brand and manufacture.	Letter per Cm height	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.29
A14.61	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade	Sqm	24.66	23.99	24.66	25.16	26.00	25.83	24.74	26.16	24.74	25.83	27.00
A14.62	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin												
A14.62.1	32 mm dia	Each	45.67	42.28	45.67	48.20	52.43	51.59	46.09	53.28	46.09	51.59	57.51
A14.62.2	40 mm dia	Each	54.80	50.74	54.80	57.84	62.92	61.90	55.31	63.93	55.31	61.90	69.01

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A14.63	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.												
A14.63.1	One or more coats on old work	Sqm	24.51	24.02	24.51	24.89	25.51	25.38	24.58	25.63	24.58	25.38	26.25
A14.64	Finishing walls with water proofing cement paint "snowcem - plus" of M/s snowcem India Ltd. Or equivalent of required shade:												
A14.64.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of "Cemprover" primer of Snowcem or equivalent applied @ 0.80 liters/10 sqm complete including cost of Priming coat	Sqm	40.98	39.34	40.98	42.21	44.26	43.85	41.19	44.66	41.19	43.85	46.71
A14.65	Finishing walls with textured exterior paint "Sandtex Matt" of M/s Snowcem India Ltd., or equivalent of required shade												
A14.65.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm	Sqm	168.40	161.45	168.40	173.62	182.31	180.57	169.27	184.05	169.27	180.57	192.74
A14.65.2	Old work (One or more coat) applied @ 1.82 ltr/10 sqm.	Sqm	104.76	100.90	104.76	107.65	112.47	111.51	105.24	113.43	105.24	111.51	118.26
A14.66	Finishing walls with Acrylic Smooth exterior paint "Trump" of M/s Snowcem India Ltd or equivalent of required shade												
A14.66.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface)	Sqm	80.72	78.25	80.72	82.57	85.66	85.04	81.03	86.27	81.03	85.04	89.36
A14.66.2	Old work (One or more coat applied @ 0.90 ltr/10sqm)	Sqm	48.77	47.44	48.77	49.77	51.43	51.10	48.94	51.77	48.94	51.10	53.43
A14.67	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives "Snowcyl - XT" of M/s Snowcem India Ltd., or equivalent of required shade												
A14.67.1	Old work (Two or more coat applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface.	Sqm	94.38	90.92	94.38	96.97	101.28	100.42	94.81	102.15	94.81	100.42	106.46
A14.67.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm)	Sqm	57.87	55.86	57.87	59.37	61.88	61.38	58.12	62.38	58.12	61.38	64.89
A14.68	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint approved brand and manufacture on old work												
A14.68.1	100 mm diameter pipes	Metre	13.00	12.86	13.00	13.11	13.29	13.29	13.25	13.32	13.02	13.25	13.50
A14.68.2	150 mm diameter pipes	Metre	18.56	18.35	18.56	18.72	18.99	18.94	18.59	19.05	18.59	18.94	19.31
A14.69	Varnishing with varnish of approved brand and manufacture:												
A14.69.1	One or more coats with copal varnish.	Sqm	53.17	52.28	53.17	53.84	54.95	54.73	53.28	55.17	53.28	54.73	56.28
A14.69.2	One or more coats with spar varnish.	Sqm	55.86	54.91	55.86	56.57	57.76	57.53	55.98	58.00	55.98	57.53	59.19
A14.70	Melamine polishing on wood work (one or more coat).	Sqm	117.62	114.67	117.62	119.83	123.52	122.78	117.99	124.26	117.99	122.78	127.94
A14.71	Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.	Sqm	31.77	31.36	31.77	32.08	32.59	32.49	32.49	32.69	31.82	32.49	33.20

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
15. DISMANTLING AND DEMOLISHING													
A15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer-in-Chief	Cum	160.00	160.00	160.00	160.00	160.00	160.00	160.00	160.00	160.00	160.00	160.00
A15.2	Demolishing Cement concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer-in-Chief												
A15.2.1	1:3:6 or richer mix	Cum	460.00	460.00	460.00	460.00	460.00	460.00	460.00	460.00	460.00	460.00	460.00
A15.2.2	1:4:8 or leaner mix	Cum	266.31	266.31	266.31	266.31	266.31	266.31	266.31	266.31	266.31	266.31	266.31
A15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead:	Cum	641.58	641.58	641.58	641.58	641.58	641.58	641.58	641.58	641.58	641.58	641.58
A15.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	Cum	596.18	596.18	596.18	596.18	596.18	596.18	596.18	596.18	596.18	596.18	596.18
A15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work)	Sqm	233.41	233.41	233.41	233.41	233.41	233.41	233.41	233.41	233.41	233.41	233.41
A15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work	Kg	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51
A15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:												
A15.7.1	In mud mortar	Cum	127.71	127.71	127.71	127.71	127.71	127.71	127.71	127.71	127.71	127.71	127.71
A15.7.2	In lime mortar with old mughal bricks	Cum	314.74	314.74	314.74	314.74	314.74	314.74	314.74	314.74	314.74	314.74	314.74
A15.7.3	In lime mortar	Cum	151.92	151.92	151.92	151.92	151.92	151.92	151.92	151.92	151.92	151.92	151.92
A15.7.4	In cement mortar	Cum	381.31	381.31	381.31	381.31	381.31	381.31	381.31	381.31	381.31	381.31	381.31
A15.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m. (stacks of cleaned bricks shall be measured):												
A15.8.1	Brick work in mud mortar	1000 nos	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36
A15.8.2	Brick work in lime mortar	1000 nos	956.31	956.31	956.31	956.31	956.31	956.31	956.31	956.31	956.31	956.31	956.31
A15.8.3	Brick work in cement mortar	1000 nos	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89	1206.89
A15.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead												
A15.9.1	In lime mortar	Cum	210.03	210.03	210.03	210.03	210.03	210.03	210.03	210.03	210.03	210.03	210.03
A15.9.2	In cement mortar	Cum	430.95	430.95	430.95	430.95	430.95	430.95	430.95	430.95	430.95	430.95	430.95

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead :												
A15.10.1	In lime mortar	Cum	256.02	256.02	256.02	256.02	256.02	256.02	256.02	256.02	256.02	256.02	256.02
A15.10.2	In cement mortar	Cum	518.71	518.71	518.71	518.71	518.71	518.71	518.71	518.71	518.71	518.71	518.71
A15.11	Removing mortar from stones and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured)												
A15.11.1	In lime mortar	Cum	85.95	85.95	85.95	85.95	85.95	85.95	85.95	85.95	85.95	85.95	85.95
A15.11.2	In cement mortar	Cum	122.26	122.26	122.26	122.26	122.26	122.26	122.26	122.26	122.26	122.26	122.26
A15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:												
A15.12.1	Of area 3 sq. metres and below	Each	69.00	69.00	69.00	69.00	69.00	69.00	69.00	69.00	69.00	69.00	69.00
A15.12.2	Of area beyond 3 sq. metres	Each	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42	94.42
A15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:												
A15.13.1	Of area 3 sq. metres and below	Each	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03	26.03
A15.13.2	Of area beyond 3 sq. metres	Each	36.32	36.32	36.32	36.32	36.32	36.32	36.32	36.32	36.32	36.32	36.32
A15.14	Dismantling wood work in frames, trusses, purlins and rafters upto 10 metres span and 5 metres height including stacking the material within 50 metres lead:												
A15.14.1	Of sectional area 40 square centimetres and above	Cum	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36	847.36
A15.14.2	Of sectional area below 40 square centimetres	Metre	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
A15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres:												
A15.15.1	Of sectional area 40 square centimetres and above	Cum per Metre span	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
A15.15.2	Of sectional area below 40 square centimetres metre	Cum per Metre span	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres:												
A15.16.1	Of sectional area 40 square centimetres and above	Cum per Metre height	163.42	163.42	163.42	163.42	163.42	163.42	163.42	163.42	163.42	163.42	163.42
A15.16.2	Of sectional area below 40 square centimetres	Cum per Metre height	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
A15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:												
A15.17.1	R.S. Joists	Kg	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
A15.17.2	Channels, angles, tees and flats	Kg	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
A15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
A15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead	Kg	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
A15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	Kg per Metre span	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
A15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres	Kg per Metre span	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
A15.22	Extra for marking of structural steel work required to be re-erected.	Kg	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
A15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.												
A15.23.1	For thickness of tiles 10 mm to 25 mm	Sqm	14.83	14.83	14.83	14.83	14.83	14.83	14.83	14.83	14.83	14.83	14.83
A15.23.2	For thickness of tiles above 25 mm and upto 40 mm	Sqm	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70
A15.24	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	242.10	242.10	242.10	242.10	242.10	242.10	242.10	242.10	242.10	242.10	242.10
A15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	47.21	47.21	47.21	47.21	47.21	47.21	47.21	47.21	47.21	47.21	47.21

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	20.22	20.22	20.22	20.22	20.22	20.22	20.22	20.22	20.22	20.22	20.22
A15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead	Cum	161.00	161.00	161.00	161.00	161.00	161.00	161.00	161.00	161.00	161.00	161.00
A15.28	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of:												
A15.28.1	G.S. Sheet	Sqm	30.26	30.26	30.26	30.26	30.26	30.26	30.26	30.26	30.26	30.26	30.26
A15.28.2	Asbestos Sheet	Sqm	14.53	14.53	14.53	14.53	14.53	14.53	14.53	14.53	14.53	14.53	14.53
A15.29	Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately) including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:	Sqm	483.00	483.00	483.00	483.00	483.00	483.00	483.00	483.00	483.00	483.00	483.00
A15.30	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	435.79	435.79	435.79	435.79	435.79	435.79	435.79	435.79	435.79	435.79	435.79
A15.31	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	31.17	31.17	31.17	31.17	31.17	31.17	31.17	31.17	31.17	31.17	31.17
A15.32	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
A15.33	Dismantling wooden ballies in posts and struts including stacking within 50 metres lead.	Metre	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
A15.34	Dismantling and staxking within 50 metres lead, fencing posts or struts including all earrrth work and dismantling of concrete etc. in base of:												
A15.34.1	T' or 'L' iron or pipe	Each	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67
A15.34.2	R.C.C.	Each	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67
A15.35	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.	Each	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
A15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54
A15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.	Sqm	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11	12.11

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.38	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	Sqm	13.32	13.32	13.32	13.32	13.32	13.32	13.32	13.32	13.32	13.32	13.32
A15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead												
A15.39.1	Upto 10 mm thick	Sqm	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
A15.39.2	Thickness above 10 mm upto 25 mm	Sqm	15.01	15.01	15.01	15.01	15.01	15.01	15.01	15.01	15.01	15.01	15.01
A15.39.3	Thickness above 25 mm upto 40 mm	Sqm	17.55	17.55	17.55	17.55	17.55	17.55	17.55	17.55	17.55	17.55	17.55
A15.40	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead:												
A15.40.1	Thickness upto 40 mm	Sqm	50.84	50.84	50.84	50.84	50.84	50.84	50.84	50.84	50.84	50.84	50.84
A15.40.2	Thickness above 40 mm upto 75 mm	Sqm	80.20	80.20	80.20	80.20	80.20	80.20	80.20	80.20	80.20	80.20	80.20
A15.41	Dismantling cement asbestos, Celotax or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	Sqm	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32	10.32
A15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead												
A15.42.1	75 to 80 mm dia pipe.	Metre	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26	13.26
A15.42.2	100 mm dia pipe	Metre	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01	14.01
A15.42.3	150 mm dia pipe	Metre	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58
A15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50metres lead												
A15.43.1	Water bound macadam road	Sqm	41.71	41.71	41.71	41.71	41.71	41.71	41.71	41.71	41.71	41.71	41.71
A15.43.2	Bituminous road	Sqm	77.52	77.52	77.52	77.52	77.52	77.52	77.52	77.52	77.52	77.52	77.52
A15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes manually/ by mechanical means including stacking of pipes within 50 metres lead												
A15.44.1	15 mm to 40 mm nominal bore	Metre	30.05	30.05	30.05	30.05	30.05	30.05	30.05	30.05	30.05	30.05	30.05
A15.44.2	Above 40 mm nominal bore	Metre	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88	34.88
A15.45	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes, lead at site within 50 metre lead:												
A15.45.1	Upto 150 mm diameter	Metre	77.23	76.84	77.23	77.53	78.03	77.93	77.28	78.13	77.28	77.78	78.63
A15.45.2	Above 150 mm dia upto 300 mm dia.	Metre	98.33	97.42	98.33	99.02	100.17	99.94	98.45	100.40	98.45	98.45	101.54
A15.45.3	Above 300 mm diameter	Metre	139.25	137.94	139.25	140.22	141.85	141.52	139.41	142.17	139.41	141.03	143.80

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.46	Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes, lead at site within 50 metres lead:												
A15.46.1	Upto 600 mm diameter	Metre	139.25	137.94	139.25	140.22	141.85	141.52	139.41	142.17	139.41	141.03	143.80
A15.46.2	Above 600 mm diameter	Metre	280.81	277.95	280.81	282.96	286.54	285.82	281.17	287.25	281.17	284.75	290.83
A15.47	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead:												
A15.47.1	Upto 150 mm diameter	Metre	60.16	60.16	60.16	60.16	60.16	60.16	60.16	60.16	60.16	60.16	60.16
A15.47.2	Above 150 mm diameter	Metre	71.14	71.14	71.14	71.14	71.14	71.14	71.14	71.14	71.14	71.14	71.14
A15.48	Taking out C. I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres lead	Each	134.22	134.22	134.22	134.22	134.22	134.22	134.22	134.22	134.22	134.22	134.22
A15.49	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres lead.	Each	77.48	77.48	77.48	77.48	77.48	77.48	77.48	77.48	77.48	77.48	77.48
A15.50	Dismantling of R.C.C. spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead	Each	884.02	884.02	884.02	884.02	884.02	884.02	884.02	884.02	884.02	884.02	884.02
A15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 metres lead including refilling the excavated gap	Each	179.98	179.98	179.98	179.98	179.98	179.98	179.98	179.98	179.98	179.98	179.98
A15.52	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	Each	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93
A15.53	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres												
A15.53.1	Upto 150 mm diameter	Each	66.54	66.54	66.54	66.54	66.54	66.54	66.54	66.54	66.54	66.54	66.54
A15.53.2	Above 150 mm diameter	Each	207.27	207.27	207.27	207.27	207.27	207.27	207.27	207.27	207.27	207.27	207.27

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A15.54	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	Each	138.93	138.93	138.93	138.93	138.93	138.93	138.93	138.93	138.93	138.93	138.93
A15.55	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead:												
A15.55.1	120 x 120 cm (outside to outside)	Each	193.08	193.08	193.08	193.08	193.08	193.08	193.08	193.08	193.08	193.08	193.08
A15.55.2	210 x 120 cm (outside to outside)	Each	302.63	302.63	302.63	302.63	302.63	302.63	302.63	302.63	302.63	302.63	302.63
A15.55.3	320 x 120 cm (outside to outside)	Each	440.63	440.63	440.63	440.63	440.63	440.63	440.63	440.63	440.63	440.63	440.63
A15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16
A15.57	Dismantling aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer	Sqm	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98
A15.58	Demolishing C.C./ R.C.C. work by mechanical means and stock piling at designated locations and disposal of dismantled materials upto a lead of 100m, staking of serviceable and unserviceable materials separately including cutting reinforcement bars	Cum	858.96	858.96	858.96	858.96	858.96	858.96	858.96	858.96	858.96	858.96	858.96
A15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material upto a lead of 1000 metres, as per direction of Engineer-in-Charge	Cum	112.96	112.96	112.96	112.96	112.96	112.96	112.96	112.96	112.96	112.96	112.96
	BAMBOO WORKS												
A15.60	Split Bamboo Diagonally woven Wall												
A15.60.1	With plaster of 20 mm thickness 1:6 (1 cement: 6 fine sand) on both sides of the bamboo wall	Sqm	753.96	637.84	753.96	847.64	986.14	954.94	765.18	1017.34	765.18	912.46	1164.68
A15.60.2	Without Cement Plaster	Sqm	285.41	285.41	285.41	285.41	285.41	285.41	285.41	285.41	285.41	285.41	285.41
A15.61	Providing single layer bamboo mat with lattice pattern made up of bamboo slits of sizes 5mm*2mm	Sqm	304.44	304.44	304.44	304.44	304.44	304.44	304.44	304.44	304.44	304.44	304.44

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	16. ALUMINIUM WORK												
A16.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with rawl plug and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junction, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/ panelling, C.P. brass/ satinless steel screws, all complete as per architectural drawing.(Glazing and panelling to be paid seperately)												
A16.1.1	For Fixed portion												
A16.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	390.85	362.75	390.85	411.93	481.92	467.55	425.00	489.51	425.00	429.50	519.89
A16.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 microns)	Kg	399.15	370.43	399.15	420.70	492.22	484.46	434.05	434.05	434.05	438.65	538.75
A16.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 microns)	Kg	407.46	378.12	407.46	429.46	502.51	494.59	443.10	510.43	443.10	447.80	550.04
A16.1.2	For shutters of doors, windows, ventilators including providing and fixing hinges/ pivots and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fitting shall be paid seperately)												
A16.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 microns)	Kg	419.71	389.76	419.71	442.18	479.62	472.13	423.46	487.11	423.46	460.90	524.55
A16.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 microns)	Kg	428.18	397.60	428.18	451.12	489.34	481.70	432.00	496.99	432.00	470.23	535.22
A16.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 microns)	Kg	436.65	405.44	436.65	460.06	499.07	491.27	440.55	506.87	440.55	479.56	548.95
A16.2	Providing and fixing 12 mm thick pre-laminated article board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete as per architectural drawings.												
A16.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	Sqm	925.98	863.46	925.98	972.87	1051.02	1035.39	933.79	1066.65	933.79	1011.95	1144.81
A16.2.2	Pre-laminated particle board with decorative lamination on both sides.	Sqm	981.32	914.70	981.32	1031.29	1114.57	1097.91	989.65	989.65	989.65	1072.93	1214.50

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A16.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings (Cost of aluminium snap beading shall be paid in basic item)												
A16.3.1	With float glass panes of 4.0 mm thickness	Sqm	798.48	749.83	798.48	834.97	895.78	883.62	804.56	907.95	804.56	865.38	968.76
A16.3.2	With float glass panes of 5.50 mm thickness	Sqm	937.56	878.61	937.56	981.77	1055.46	1040.72	944.93	1070.20	944.93	1018.62	1143.89
A16.3.3	With float glass panes of 8 mm thickness	Sqm	798.48	749.83	798.48	834.97	895.78	883.62	804.56	907.95	804.56	865.38	968.76
A16.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS: 6315 marked, for doors including cost of cutting floors as required, embedded in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete												
A16.4.1	With stainless steel cover plate	Each	2509.43	2330.29	2509.43	2643.92	2867.70	2822.87	2531.75	2912.53	2531.75	2753.18	3136.50
A16.4.2	With brass cover plate	Each	2708.69	2514.79	2708.69	2854.25	3096.48	3047.96	2732.86	3145.00	2732.86	2972.74	3387.42
A16.5	powder coating 50 microns) consisting of tee/ angle sections, of approved make conforming to IS: 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia with necessary cadmium plated machine screw all complete as per architectural drawing (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid separately)	Kg	513.17	479.76	513.17	538.23	580.00	571.65	517.35	588.35	517.35	559.12	630.12
A16.6	Providing and fixing 6mm dia G.I. level adjusting hangers (upto 1200 mm length) fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3 mm size 60mm long and expansion hold fasteners 12.5 mm dia 40 mm long complete	Each	110.17	102.63	110.17	115.83	125.25	123.36	111.11	127.13	111.11	120.54	136.56

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A16.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving screws, over expansion joints on vertical surfaces/ceilings with full threaded, cadmium plated steel screw 4 mm dia stem, 30 mm long and aluminium washers 2mm thick, 15 mm dia at a staggered pitch of 200mm center to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete.												
A16.7.1	Anodised aluminium sheet 2.5 mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	463.42	431.63	463.42	487.25	526.98	519.04	467.39	534.93	467.39	507.12	574.66
A16.7.2	Powder coated aluminium sheet 2.5 mm thick (minimum thickness of powder coating 50 microns)	Kg	471.76	439.36	471.76	496.06	536.56	528.46	475.81	544.66	475.81	516.31	585.16
A16.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings.												
A16.8.1	Upto 5mm depth and 5mm width	Metre	88.86	85.28	88.86	91.54	96.01	95.11	89.30	96.90	89.30	93.77	101.37
A16.9	Extra for applying additional anodic coating AC 25 instead of AC 15 Aluminium extruded sections												
A16.9.1	For fixed portion	Kg	11.74	10.87	11.74	12.40	13.48	13.26	11.85	13.70	11.85	12.94	14.79
A16.9.2	For shutters of doors, windows & ventilators	Kg	11.74	10.87	11.74	12.40	13.48	13.26	11.85	13.70	11.85	12.94	14.79
A16.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, silicon sealant (Both primary and secondary sealant) etc. as per specifications, drawings. complete	Sqm	3332.81	3100.49	3332.81	3507.06	3797.46	3739.38	3361.85	3855.54	3361.85	3652.26	4145.94
A16.11	Providing and fixing stainless steel (SS-304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows.												
A16.11.1	205x19 mm	Each	206.76	192.08	206.76	217.78	236.14	232.46	208.60	239.81	208.60	226.96	258.17
A16.11.2	255x19 mm	Each	226.43	210.29	226.43	238.54	258.72	254.68	228.45	262.76	228.45	248.63	282.93
A16.11.3	355x19 mm	Each	285.44	264.93	285.44	300.83	326.47	321.34	288.00	331.60	288.00	313.65	357.24
A16.11.4	510x19 mm	Each	534.58	495.61	534.58	563.81	612.52	602.78	539.45	622.26	539.45	588.17	670.97
A16.11.5	710x19 mm	Each	960.75	890.21	960.75	1013.65	1101.82	1084.19	969.56	1119.46	969.56	1057.74	1207.63

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A16.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia. 3.0 mm thick & 2100 mm long with SS screws etc. complete												
A16.12.1	Anodized (AC 15) aluminium tubular handle bar	Each	564.09	522.65	564.09	595.18	646.99	636.63	569.27	657.35	569.27	621.08	709.16
A16.12.2	Powder coated minimum thickness 50 microns aluminium tubular handle bar	Each	618.45	572.99	618.45	652.55	709.37	698.01	624.13	720.73	624.13	680.96	777.56
A16.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	Each	604.80	560.34	604.80	638.15	693.73	682.61	610.36	704.84	610.36	665.94	760.42
A16.13	Providing and fixing 100 mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete	Each	275.78	260.01	275.78	287.61	307.33	303.38	277.75	311.27	277.75	297.47	330.99
A16.14	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15 sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285 fixed with rawl plugs and stainless steel screws etc.	Kg	446.77	414.26	446.77	471.16	511.81	503.68	450.84	519.94	450.84	491.49	560.59
A16.15	Providing and fixing aluminium casement window fastener of required length for aluminium windows with necessary screws etc. complete												
A16.15.1	Anodized (AC 15) aluminium	Each	49.64	46.12	49.64	52.27	52.27	56.67	50.08	57.54	50.08	54.47	61.94
A16.15.2	Powder coated minimum thickness 50 micron aluminium	Each	53.59	49.78	53.59	56.45	61.20	60.25	54.07	62.16	54.07	58.83	66.91
A16.15.3	Polyester Powder coated minimum thickness 50 micron aluminium	Each	56.23	52.22	56.23	59.23	64.23	63.23	56.73	65.23	56.73	61.73	70.23
A16.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screw etc. complete												
A16.16.1	Anodized (AC 15) aluminium	Each	60.18	55.88	60.18	63.40	68.77	67.70	60.72	69.84	60.72	66.09	75.21
A16.16.2	Powder coated minimum thickness 50 micron aluminium	Each	66.77	61.99	66.77	70.36	76.33	75.14	67.37	77.53	67.37	73.35	83.51
A16.16.3	Polyester Powder coated minimum thickness 50 micron aluminium	Each	69.40	64.43	69.40	73.14	79.36	78.12	70.03	80.61	70.03	76.25	86.83

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
17. WATER PROOFING													
A17.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Chief and consisting of : (i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound conforming to IS: 2645 in the recommended proportion over the levelling course (levelling course is to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10mm to 12 mm nominal size spreading @ 8 cudm/ sqm thoroughly embedded in the 2nd layer.												
A17.1.1	Using rough kota stone.	Sqm	1079.67	925.13	1079.67	1204.54	1387.07	1347.09	1094.49	1430.38	1094.49	1290.68	1626.56
A17.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS: 2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement: 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels.												
A17.2.1	Using rough Kota stone	Sqm	1060.39	959.67	1060.39	1141.25	1233.16	1234.89	1070.33	1288.77	1070.33	1197.99	1416.43
A17.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and th elike consisting o												
	(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.												
	(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.												
	(iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	(iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm)	Sqm	496.57	433.00	496.57	547.97	623.69	606.55	502.65	640.84	502.65	583.35	721.54
A17.4	Providing and placing in position suitable PVC water stops conforming to IS: 12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.												
A17.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Metre	593.75	550.12	593.75	626.46	680.99	670.09	599.20	691.90	599.20	653.73	746.42
A17.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)	Metre	515.23	477.42	515.23	543.58	590.84	581.39	519.95	600.29	519.95	567.21	647.55
A17.4.3	Kickers (320mm wide, 5 mm thick)	Metre	528.31	489.54	528.31	557.39	605.86	596.17	533.16	615.56	533.16	581.63	664.03
A17.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing												
	(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.												
	(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm												
	This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours												
	The rate includes preparation of surface, treatment and sealing of all joints, corners, junction of pipes and masonry with polymer mixed slurry	Sqm	236.97	228.92	236.97	243.06	253.06	251.03	237.94	255.09	237.94	248.02	265.16
A17.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:												
	(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm												
	(b) laying second layer of fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm												
	(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.												
	(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately for the purpose of measurement the entire treated surface will be measured.	Sqm	376.64	356.46	376.64	391.88	417.01	411.94	379.12	422.09	379.12	404.38	447.36

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies. Terrace etc consisting of following operations:												
	(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in Chief over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.												
	(b) Laying brick bats with mortar using broken bricks/ brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1 cement: 5mortar) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-Charge over 20mm thick layer of cement mortar of mix 1:5 (1 cement:5 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge to required slope and treating similsrly the adjoining walls upto 300mm height including rounding of junctions of walls and slabs												
	(c) After two days of proper curing applying a second coat of cement slury using 2.75kg/sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge.												
	(d) Finishing the surface with 20mm thick jointless cement moratr of mix 1:4 (1 cement: 4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-inCharge including laying glass fibre cloth of approved quality in top l;ayer of plaster and finally the surface wiyh trowel with neat cement slurry and making pattern of 300x300 square 3mm deep												
	(e) The whole terrace so finished shall be floded with water for a minimum period of two weeks for curing and for final test. All abve operations to be done in order and as directed and specified by the Engineer-in-Charge	Sqm	1241.56	969.76	1241.56	1463.22	1785.29	1711.35	1266.77	1859.08	1266.77	1612.35	2204.81
A17.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.8	Providing and laying four course water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45 kg/sqm of area for each course, second course of roofing felt type 3 grade-I and fourth and final course of stone grit 6mm and down size or pea-sized gravel spread at 6 cubic diameter per square metre including preparation of surface but excluding grading complete with:												
A17.8.1	Bitumen felt (Hessian base) type 3 grade I conforming to IS : 1322	Sqm	255.70	241.48	255.70	266.37	284.15	280.59	257.48	287.70	257.48	275.26	305.48
A17.9	Providing and laying six courses waterproofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45, 1.20 and 1.45 kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS: 1322 (Hessian based self finished bitumen felt) conforming to IS: 1322 and sixth and final course of stone grit 6mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	Sqm	410.13	386.63	410.13	427.76	457.14	451.27	413.07	463.02	413.07	442.45	492.40
A17.10	Providing and laying six courses waterproofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45, 1.20 and 1.70kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS: 1322 (Hessian based self finished bitumen felt) conforming to IS: 1322 and sixth and final course of stone grit 6mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	Sqm	466.12	440.77	466.12	485.13	516.81	510.47	469.29	523.15	469.29	500.97	554.83

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.11	Providing and laying six courses waterproofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS: 702 applied hot @ 1.45, 1.20 and 1.70kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	Sqm	466.48	441.14	466.48	485.49	517.18	510.84	469.65	523.51	469.65	501.34	555.20
A17.12	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24 litre per sqm	Sqm	23.79	22.99	23.79	24.39	25.39	25.19	23.89	25.59	23.89	24.89	26.59
A17.13	Deduct for omitting in water proofing treatment final course of spreading stone grit 6mm or down size or pea sized gravel												
A17.13.1	At 6 cudm per sqm	Sqm	11.61	10.87	11.61	12.17	13.09	12.91	11.70	13.28	11.70	12.63	14.20
A17.13.2	At 8 cudm per sqm	Sqm	15.48	14.50	15.48	16.22	17.45	17.21	15.61	17.70	15.61	16.84	18.93
A17.14	Grading roof for water proofing treatment with												
A17.14.1	Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size)	Cum	3428.87	3134.22	3428.87	3669.57	4018.16	3937.93	3455.84	4098.39	3455.84	3830.72	4473.27
A17.14.2	Cement Mortar 1:3 (1 cement: 3 coarse sand)	Cum	4803.15	4086.32	4803.15	5389.59	6236.82	6041.22	4868.35	6432.41	4868.35	5780.78	7344.84
A17.14.3	Cement Mortar 1:4 (1 cement: 4 coarse sand)	Cum	4263.35	3653.24	4263.35	4762.36	5483.20	5317.10	4318.71	5649.66	4318.71	5095.28	6426.22
A17.15	Providing and laying in-situ seven course water proofing treatment with APP (Atactic poly-propylene) modified polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40 kg per sqm, 2nd, 4th & 6th course of bonding materials @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified polymeric membrane 1.5mm thick of 2.25 kg/sqm weight consisting of five layer prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for seperately.	Sqm	288.82	419.79	288.82	301.49	322.60	318.38	290.93	326.83	290.93	312.05	347.95

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.16	Providing and laying in-situ five course water proofing treatment with APP (Atactic poly-propylene) modified polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40 kg per sqm, 2nd & 4th course of bonding materials @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd layer of roofing membrane APP modified polymeric membrane 2.0 mm thick of 3.00 kg/sqm weight consisting of five layer prefabricated with centre core as 10 micron HMHDPE film sandwiched on both sides with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for seperately.	Sqm	398.92	372.66	398.92	418.62	451.44	444.88	402.20	458.01	402.20	435.03	490.83
A17.17	Providing and laying in-situ seven course water proofing treatment with APP (Atactic poly-propylene) modified polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40 kg per sqm, 2nd, 4th & 6th course of bonding materials @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified polymeric membrane 2.0 mm thick of 3.00 kg/sqm weight consisting of five layer prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for seperately.	Sqm	697.39	650.23	697.39	732.75	791.70	779.91	703.28	803.49	703.28	762.23	862.44

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.18	Providing and fixing APP (Atactic poly-propylene) modified polymeric five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm by the same membrane manufacturerer of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the promer coat the later of membrane shall be laid using Butane torch and sealing all joints etc. and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80 N. softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authoriseddf applicator of the manufacturer of membrane.												
A17.18.1	2 mm (for corrugated roof sheets)	Sqm	348.70	326.92	348.70	365.03	392.25	386.81	351.42	397.70	351.42	378.64	424.92
A17.19	Providing and fixing APP (Atactic poly-propylene) modified polymeric five layer 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm by the same membrane manufacturerer of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the promer coat the later of membrane shall be laid using Butane torch and sealing all joints etc. and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80 N. softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authoriseddf applicator of the manufacturer of membrane.												
A17.19.1	3 mm thick	Sqm	419.34	392.33	419.34	439.60	473.36	466.61	422.72	480.12	422.72	456.48	513.88

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A17.20	Providing and fixing APP (Atactic poly-propylene) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm by the same membrane manufacturer of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the later of membrane shall be laid using Butane torch and sealing all joints etc. and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80 N. softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.												
A17.20.1	3 mm thick	Sqm	514.54	480.47	514.54	540.09	582.67	574.15	518.80	591.18	518.80	561.38	633.76
A17.21	Extra for covering top of membrane with geotextile, 120 gms non woven, 100% polyester of thickness 1 to 1.25 mm binded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation (for item 18 - 20)	Sqm	62.39	58.63	62.39	65.22	69.92	68.98	62.87	70.87	62.87	67.57	75.57

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
18. PILE WORK													
A18.1	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap M 35 in cement concrete, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to embedded in the pile cap etc. all complete (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap)												
A18.1.1	400 mm dia piles	Metre	2226.80	2067.23	2226.80	2351.93	2539.12	2497.41	2242.32	2580.83	2242.32	2440.18	2778.69
A18.1.2	450 mm dia piles	Metre	2724.06	2532.21	2724.06	2874.80	3099.20	3048.95	2742.48	3149.44	2742.48	2980.29	3387.25
A18.1.3	500 mm dia piles	Metre	3267.02	3037.85	3267.02	3447.34	3714.77	3654.66	3288.80	3774.88	3288.80	3572.78	4058.86
A18.1.4	550 mm dia piles	Metre	3613.55	3340.86	3613.55	3828.37	4146.00	4074.40	3639.25	4217.62	3639.25	3977.09	4555.45
A18.1.5	750 mm dia piles	Metre	6102.72	5613.23	6102.72	6488.99	7057.70	6928.95	6148.33	7186.47	6148.33	6754.58	7792.71
A18.1.6	1000 mm dia piles	Metre	11704.04	10695.98	11704.04	12500.16	13669.93	13404.56	11797.44	13935.33	11797.44	13045.77	15183.63
A18.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than the specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length of setting out and removal of same and the length of the pile to be embedded in the pile caap etc. all complete including removal of excavated earth with all lifts and lead (Length of pile for payment shall be measured upto bottom of pile cap)												
A18.2.1	300 mm dia piles	Metre	1521.73	1448.52	1521.73	1579.68	1664.34	1645.02	1528.40	1683.66	1528.40	1619.03	1774.28
A18.2.2	400 mm dia piles	Metre	1962.11	1832.66	1962.11	2064.61	2214.21	2180.05	1973.88	2248.38	1973.88	2134.10	2408.60
A18.2.3	450 mm dia piles	Metre	2553.97	2390.48	2553.97	2683.45	2872.33	2829.17	2568.82	2915.50	2568.82	2771.16	3117.83
A18.2.4	500 mm dia piles	Metre	3039.28	2837.91	3039.28	3198.77	3431.38	3378.22	3057.55	3484.56	3057.55	3306.77	3733.77
A18.2.5	600 mm dia piles	Metre	4044.55	3755.76	4044.55	4273.33	4606.83	4530.57	4070.72	4683.10	4070.72	4428.13	5040.49
A18.2.6	750 mm dia piles	Metre	5854.31	5404.87	5854.31	6210.46	6729.33	6610.61	5894.99	6848.05	5894.99	6451.21	7404.26
A18.2.7	1000 mm dia piles	Metre	977.02	897.09	977.02	1040.35	1132.62	1111.51	984.25	1153.74	984.25	1083.16	1252.65

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A18.3	Boring, providing and installing cast-in-situ single under reamed pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than the specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in the pile cap etc. all complete (Length of pile for payment shall be measured upto bottom of pile cap)												
A18.3.1	300 mm dia piles	Metre	2026.10	1943.90	2026.10	2091.17	2186.24	2164.55	2033.61	2207.93	2033.61	2135.36	2309.69
A18.3.2	400 mm dia piles	Metre	2616.24	2460.14	2616.24	2739.79	2920.32	2879.13	2630.48	2961.50	2630.48	2823.70	3154.72
A18.3.3	450 mm dia piles	Metre	2973.08	2771.90	2973.08	3132.31	3364.97	3311.89	2991.43	3418.05	2991.43	3240.46	3667.07
A18.3.4	500 mm dia piles	Metre	3367.50	3115.58	3367.50	3566.95	3858.15	3791.67	3390.43	3924.64	3390.43	3702.24	4236.45
A18.4	Extra for item No. A18.3 for providing additional bulb in under reamed piles, under specified diameter (only the quantity of extra bulbs are to be paid)												
A18.4.1	300 mm dia pipes	Each Bulb	1387.22	1353.26	1387.22	1414.09	1453.38	1444.42	1390.32	1462.34	1390.32	1432.36	1504.38
A18.4.2	400 mm dia pipes	Each Bulb	1633.97	1569.04	1633.97	1685.35	1760.47	1743.35	1639.91	1777.60	1639.91	1720.28	1857.97
A18.4.3	450 mm dia pipes	Each Bulb	1782.97	1699.39	1782.97	1849.10	1945.81	1923.76	1790.61	1967.85	1790.61	1894.07	2071.31
A18.4.4	500 mm dia pipes	Each Bulb	1995.22	1890.00	1995.22	2078.48	2200.23	2172.48	2004.85	2227.98	2004.85	2135.10	2358.24
A18.5	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap M 35 in cement concrete, to carry safe working load not less than specified, with a central through preformed hole with M.S. black pipe of dia 40 mm for grouting with cement sand grouting of mix 1:2 (1 cement: 2 coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap)												
A18.5.1	400 mm dia pipe	Metre	2080.30	1987.66	2080.30	2146.86	2258.79	2236.60	2091.63	2280.98	2091.63	2322.17	2392.41
A18.5.2	450 mm dia pipe	Metre	2421.94	2313.96	2421.94	2499.18	2629.28	2603.53	2435.15	2655.03	2435.15	2715.47	2784.45
A18.5.3	500 mm dia pipe	Metre	2565.24	2440.21	2565.24	2654.35	2804.66	2774.96	2580.53	2834.37	2580.53	2916.20	2983.79
A18.5.4	550 mm dia pipe	Metre	2847.98	2704.07	2847.98	2950.24	3122.93	3088.85	2865.58	3157.02	2865.58	3262.54	3328.58
A18.5.5	750 mm dia pipe	Metre	4925.42	4642.61	4925.42	5124.40	5461.76	5395.43	4960.01	5528.09	4960.01	5808.23	5862.57
A18.5.6	1000 mm dia pipe	Metre	6536.50	6143.92	6536.50	6811.90	7279.38	7187.59	6584.51	7371.20	6584.51	7789.07	7834.42

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A18.6	Vertical load testing of piles in accordance with IS 2911 (Par IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after testing. Complete as per specification												
A18.6.1	Single pile upto 50 tonne capacity												
A18.6.1.1	Initial test	Per Test	31332.14	29011.24	31332.14	33072.81	35973.93	35393.71	31622.25	36554.16	31622.25	34523.37	39455.28
A18.6.1.2	Routine test	Per Test	19571.28	18121.56	19571.28	20658.57	22470.73	22108.30	19752.50	22833.16	19752.50	21564.65	24645.32
A18.6.2	Single pile upto 50 tonne capacity and upto 100 tonne capacity												
A18.6.2.1	Initial test	Per Test	45666.32	42283.63	45666.32	48203.34	52431.70	51586.03	46089.16	53277.38	46089.16	50317.52	57505.74
A18.6.2.2	Routine test	Per Test	28704.55	26578.28	28704.55	30299.24	32957.07	32425.50	28970.33	33488.64	28970.33	31628.16	36146.46
A18.6.3	Group of two or more piles upto 50 tonne capacity												
A18.6.3.1	Initial test	Per Test	65237.60	60405.19	65237.60	68861.91	74902.43	73694.33	65841.65	76110.54	65841.65	71882.17	82151.06
A18.6.3.2	Routine test	Per Test	37837.81	35035.01	37837.81	39939.91	43443.41	42742.71	38188.16	44144.11	38188.16	41691.66	47647.61
A18.7	Cyclic Vertical load testing of piles in accordance with IS 2911 (Par IV) including preparation of pile head etc. for												
A18.7.1	Single pile												
A18.7.1.1	Upto 50 tonne capacity pile	Per Test	19571.28	18121.56	19571.28	20658.57	22470.73	22108.30	19752.50	22833.16	19752.50	21564.65	24645.32
A18.7.1.2	Above 50 tonne and upto 100 tonne capacity pile	Per Test	28704.55	26578.28	28704.55	30299.24	32957.07	32425.50	28970.33	33488.64	28970.33	31628.16	36146.46
A18.7.2	Group of two pile												
A18.7.2.1	Upto 50 tonne capacity each	Per Test	37837.81	35035.01	37837.81	39939.91	43443.41	42742.71	38188.16	44144.11	38188.16	41691.66	47647.61
A18.8	Lateral load testing of single pile in accordance with IS Code of practise IS: 2911 (Part IV) for determining safe allowable lateral load on pile:												
A18.8.1	Upto 50 tonne capacity each	Per Test	19571.28	18121.56	19571.28	20658.57	22470.73	22108.30	19752.50	22833.16	19752.50	21564.65	24645.32
A18.8.2	Above 50 tonne and upto 100 tonne capacity pile	Per Test	28704.55	26578.28	28704.55	30299.24	32957.07	32425.50	28970.33	33488.64	28970.33	31628.16	36146.46

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	19. FENCING												
A19.1	Supplying at site												
A19.1.1	R.C.C. Standards post/ Standard struts/ Standard rails/ Standard pales of mix 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs.	Cum	13170.09	11930.37	13170.09	14141.27	15649.55	15325.83	13304.37	15973.28	13304.37	16212.54	17536.74
A19.1.2	Welded steel wire fabric of required width rectangular mesh 75x25 mm size weight not less than 7.75 Kg/ Sqm painted with two or more coats of enamel paint of approved shade over a coat of primer (Painting to be paid for separately)	Sqm	496.74	460.01	496.74	524.29	570.19	561.01	501.33	579.38	501.33	547.24	625.28
A19.2	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	Each Set	162.53	153.28	162.53	169.47	181.03	178.71	163.69	183.34	163.69	175.25	194.90
A19.3	1.2m high fencing with 1.8m R.C.C design placed every 3m apart, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with nine horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately):												
A19.3.1	With G. I. barbed wire.	Metre	118.22	110.50	118.22	124.53	133.64	131.54	118.92	135.74	118.92	128.73	145.56
A19.3.2	With M.S. barbed wire.	Metre	117.88	110.17	117.88	124.19	133.30	131.20	118.58	135.41	118.58	128.40	145.22
A19.4	1.2m high fencing with 1.8m sal balli posts, 30 cm girth (min) placed every 2.5m apart embedded in cement concrete blocks and every 15th post,last but one end post and corner post strutted on both sides and end post on one side only, provided with 6 horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between two posts fitted and fixed with G.I. staples driven into the posts including two coats of coal tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately).												
A19.4.1	With G. I. barbed wire.	Metre	108.75	101.04	108.75	115.06	124.17	122.07	109.45	126.28	109.45	119.27	136.09
A19.4.2	With M.S. barbed wire.	Metre	108.42	100.70	108.42	114.72	123.84	121.74	109.12	125.94	109.12	118.93	135.76

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A19.5	.8m high fencing with 2.5m sal balli posts, 30cm girth (min) placed every 2.5m apart embedded in cement concrete blocks and every 15th post, last but one end post and corner post strutted on both sides and end post on one side only, provided with 9 horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between two posts fitted and fixed with G.I. staples driven into the posts including two coats of coal tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately).												
A19.5.1	With G. I. barbed wire.	Metre	135.72	128.01	135.72	142.03	151.15	149.04	136.42	153.25	136.42	146.24	163.06
A19.5.2	With M.S. barbed wire.	Metre	134.05	126.33	134.05	140.36	149.47	147.37	134.75	151.57	134.75	144.56	161.39
A19.6	2.4m high fencing with 3.3m sal balli posts, 30 cm girth (min) placed every 2.5 m apart embedded in cement concrete blocks and every 15th post, last but one end post and corner post strutted on both sides and end post on one side only, provided with 12 horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between two posts fitted and fixed with G.I. staples driven into the posts including two coats of coal tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately)												
A19.6.1	With G. I. barbed wire.	Metre	167.05	159.34	167.05	173.36	182.47	180.37	167.75	184.58	167.75	177.56	194.39
A19.6.2	With M.S. barbed wire.	Metre	163.70	155.99	163.70	170.01	179.12	177.02	164.40	181.23	164.40	174.21	191.04
A19.7	1.3metre high concrete rail and pale fencing with 1.8m R.C.C posts 2.25 m rails and 1.25 m pales, posts placed at 2.25 m apart embedded in cement concrete blocks 45x45x70 cm of mix 1:5:10 (1 cement: 5 fine sand :10 graded stone aggregate 40 mm nominal size) (Cost of earth work in excavation, concrete work,posts, rails and pales to be paid for separately).	Metre	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95
A19.8	1.2m high fencing with 1.8m angle iron 40x40x6mm posts placed every 3m centre to centre embeded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 9 horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A19.8.1	With G. I. barbed wire.	Metre	160.43	152.72	160.43	166.74	175.86	173.75	161.13	177.96	161.13	170.95	187.77
A19.8.2	With G. I. barbed wire.	Metre	151.64	143.92	151.64	157.95	167.06	164.96	152.34	169.16	152.34	162.15	178.98
A19.9	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia.etc. complete.	Kg	72.95	67.63	72.95	76.93	83.57	82.25	73.61	84.90	73.61	91.55	91.55
A19.10	1.2m high welded steel wire fabric fencing with 1.8m posts of specified material and of standard design placed at every 3m apart embedded in cement concrete blocks 45x45x60cm of mix 1:5:10(1 cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) every 15th post, last but one be strutted on both sides and end embedded in cement concrete blocks 70x45x50cm of the same mix, provided with welded steel wire fabric 0.90m wide rectangular mesh 75x25mm size weighing not less than 7.75 kg/sqm fixed between the posts fitted wand fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earthwork in excavation and concrete to be paid for separately)	Metre	27.56	27.56	27.56	27.56	27.56	27.56	27.56	27.56	27.56	27.56	27.56

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
20. HORTICULTURE & LANDSCAPING													
A20.1	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of	Cum	36.66	36.66	36.66	36.66	36.66	36.66	36.66	36.66	36.66	36.66	36.66
A20.2	Supplying and stacking of good earth at site including royalty and carriage upto 1 km (earth measured in stacks will be reduced by 20% for payment).	Cum	234.64	226.52	234.64	240.73	250.87	248.85	235.65	252.90	235.65	263.05	263.05
A20.3	Supplying and stacking sludge at site including royalty and carriage upto 1 km (sludge measured in stacks will be reduced by 8% for payment).	Cum	238.24	229.54	238.24	244.76	255.63	253.46	239.33	257.81	239.33	268.68	268.68
A20.4	Supplying and stacking at site dump manure or other approved source, including carriage upto 1 km (manure measured in stacks will be reduced by 8% for payment)												
A20.4.1	Screened through sieve of I.S. designation 20mm	Cum	133.94	133.94	133.94	133.94	133.94	133.94	133.94	133.94	133.94	133.94	133.94
A20.4.2	Screened through sieve of I.S. designation 16mm	Cum	152.03	152.03	152.03	152.03	152.03	152.03	152.03	152.03	152.03	152.03	152.03
A20.4.3	Screened through sieve of I.S. designation 4.75mm	Cum	164.84	164.84	164.84	164.84	164.84	164.84	164.84	164.84	164.84	164.84	164.84
A20.5	Rough dressing the trenched ground including breaking clods.	100 Sqm	71.92	71.92	71.92	71.92	71.92	71.92	71.92	71.92	71.92	71.92	71.92
A20.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100 Sqm	232.69	232.69	232.69	232.69	232.69	232.69	232.69	232.69	232.69	232.69	232.69
A20.7	Fine dressing the ground	100 Sqm	174.98	174.98	174.98	174.98	174.98	174.98	174.98	174.98	174.98	174.98	174.98
A20.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	100 Sqm	25.61	25.61	25.61	25.61	25.61	25.61	25.61	25.61	25.61	25.61	25.61
A20.9	Mixing earth and sludge or manure in proportion specified or directed.	Cum	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.82
A20.10	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).												
A20.10.1	In rows 15 cm apart in either direction.	100 Sqm	264.42	264.42	264.42	264.42	264.42	264.42	264.42	264.42	264.42	264.42	264.42
A20.10.2	In rows 7.5 cm apart in either direction.	100 Sqm	546.27	546.27	546.27	546.27	546.27	546.27	546.27	546.27	546.27	546.27	546.27
A20.10.3	In rows 5 cm apart in either direction.	100 Sqm	835.58	835.58	835.58	835.58	835.58	835.58	835.58	835.58	835.58	835.58	835.58

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A20.11	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure (the good earth shall be paid for separately).	100 Sqm	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78	1611.78
A20.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	100 Sqm	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82	2866.82
A20.13	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	Cum	104.20	104.20	104.20	104.20	104.20	104.20	104.20	104.20	104.20	104.20	104.20
A20.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):												
A20.14.1	Holes 1.2 m dia and 1.2 m deep.	Each	474.18	474.18	474.18	474.18	474.18	474.18	474.18	474.18	474.18	474.18	474.18
A20.14.2	Holes 60 cm dia, and 60 cm	Each	60.87	60.87	60.87	60.87	60.87	60.87	60.87	60.87	60.87	60.87	60.87

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A20.15	Half brick circular tree guard in 50 class designation bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground bottom two courses laid dry and top three courses in lime mortar 1:2 (1 lime putty: 2 surkhi) or cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:												
A20.15.1	With F.P.S. Bricks	Each	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98	1339.98
A20.16	Providing and fixing M.S. flat iron tree guard 60cm dia. and 2m height above ground level formed of 4 nos. 25x6mm and 8 nos. 25x3mm vertical M.S. flats rivetted to 3 nos. 25x6mm M.S. flat iron rings in two halves, bolted together with 8mm dia. and 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming, complete in all respects.	Each	2586.90	2436.85	2586.90	2697.78	2887.01	2849.51	2605.64	2924.54	2605.64	3105.01	3112.10
A20.17	Making tree guard 53 cm dia. and 1.3 m high as per design from empty coal tar drums supplied free by the department including providing and fixing 2 nos. M.S. sheet rings 50 x 0.5 mm with rivets complete in all respects including painting inside and outside of tree guard with:												
A20.17.1	A coat of coal tar	Each	217.41	214.83	217.41	218.09	222.62	221.94	217.73	223.25	217.73	220.99	226.51
A20.17.2	Two or more coats of ready mixed paint of approved quality shade over a priming coat.	Each	411.15	404.46	411.15	412.85	424.61	422.94	411.98	426.29	411.98	420.43	434.68
A20.18	Making tree guard 53 cm dia. and 2 m high as per design from empty coal tar drums supplied free by the department including providing and fixing four legs 40 cm long of 30 x 3 mm M.S. flat riveted to tree guard and providing and fixing 2 nos. M.S. sheet rings 50 x 0.5 mm with rivets complete in all respects including painting inside and outside of tree guard with												
A20.18.1	A coat of coal tar.	Each	706.95	689.08	706.95	718.80	742.74	738.23	709.18	747.20	709.18	762.74	769.57
A20.18.2	Two or more coats of ready mixed paint of approved quality and shade over a priming coat.	Each	423.52	415.67	423.52	425.51	439.29	437.32	424.50	441.26	424.50	434.38	451.09
A20.19	Edging with bricks laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m												
A20.19.1	75 class designation.												
A20.19.1.1	F.P S Bricks	Metre	31.82	22.17	31.82	39.71	51.11	48.48	32.69	53.74	32.69	44.97	66.01
A20.19.2	50 designation.												
A20.19.2.1	F.P S Bricks	Metre	28.90	27.06	28.90	30.28	32.58	32.12	29.13	33.04	29.13	35.34	35.34

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A20.20	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and levelling (cost of supplying earth and sludge or manure and mixingexcluded).	Cum	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46
A20.21	Excavation in dumped stones or malba including stacking of serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	Cum	238.60	238.60	238.60	238.60	238.60	238.60	238.60	238.60	238.60	238.60	238.60
A20.22	Excavation in bajri path including stacking of serviceable and unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	Cum	266.39	266.39	266.39	266.39	266.39	266.39	266.39	266.39	266.39	266.39	266.39
A20.23	Excavation in water bound macadam road including stacking the serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to beneatly dressed.	Cum	327.40	327.40	327.40	327.40	327.40	327.40	327.40	327.40	327.40	327.40	327.40
A20.24	Flooding the ground with water including making kiaries and dismentlntg the same.	Cum	142.07	142.07	142.07	142.07	142.07	142.07	142.07	142.07	142.07	142.07	142.07

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
21. SANITARY INSTALLATION													
A21.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, Parryware/Hindware/Seabird/Orient (Coral) with all fittings and fixtures complete including cutting and making good												
A21.1.1	White Vitreous china Orissa pattern W.C. pan.of size 580x440mm with integral type foot rests	Each	4993.82	4816.53	4993.82	5126.78	5348.39	5304.07	5015.98	5392.71	5015.98	5237.58	5614.32
A21.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585*480 mm flush pipe and integrated type foot rests.	Each	6336.71	5892.22	6336.71	6670.07	7225.68	7114.56	6392.27	7336.80	6392.27	6947.88	7892.41
A21.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, Parryware/Hindware/ Seabrid /Orient (Coral) with all fittings and fixtures complete including cutting and making good												
A21.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	4055.02	3895.59	4055.02	4174.59	4373.87	4334.01	4074.95	4413.73	4074.95	4274.23	4613.01
A21.2.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	4334.50	4154.37	4334.50	4469.59	4694.75	4649.72	4357.01	4739.78	4357.01	4582.17	4964.94
A21.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level flushing cistern with fittings & C.I./M.S. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required												
A21.3.1	W.C. pan with ISI marked white solid plastic seat and lid with white vitreous china flushing cistern & C.P. flush bend.	Each	5391.08	5070.67	5391.08	5631.39	6031.90	5951.80	5431.14	6112.01	5431.14	5831.65	6512.52
A21.3.2	W.C. pan with ISI marked Black solid plastic seat and lid with white vitreous china flushing cistern & C.P. flush bend.	Each	5476.12	5161.25	5476.12	5712.27	6105.85	6027.14	5515.47	6184.57	5515.47	5909.06	6578.16

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.4	Providing and fixing white vitreous china flat back or wall comer type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :												
A21.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern Parryware/Hindware/Seabird/Orient (Coral)	Each	3907.51	3691.36	3907.51	4069.63	4339.82	4285.78	3934.53	4393.86	3934.53	4204.73	4664.05
A21.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern Parryware/Hindware/Seabird/Orient (Coral)	Each	5163.34	4871.07	5163.34	5382.54	5747.87	5674.80	5199.87	5820.93	5199.87	5565.20	6186.26
A21.4.3	Range of three urinal basins with 10 litre white P.V.C. automatic flushing cistern Parryware/Hindware/Seabird/Orient (Coral)	Each	6982.38	6583.56	6982.38	7281.50	7780.02	7680.31	7032.23	7879.72	7032.23	7530.76	8378.25
A21.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern Parryware/Hindware/Seabird/Orient (Coral)	Each	8499.52	8029.66	8499.52	8851.91	9439.23	9321.76	8558.25	9556.69	8558.25	9145.57	10144.01
A21.5	Providing and fixing white vitreous china flat back half stall urinal of 580x380x350mm with white PVC automatic flushing cistern, Parryware/Hindware/Seabird/Oreint (Coral) with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required:												
A21.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	Each	5249.09	4959.87	5249.09	5466.01	5827.53	5755.23	5285.24	5899.84	5285.24	5646.77	6261.36
A21.5.2	Range of two half stall urinal with 5 litre P.V.C. automatic flushing cistern.	Each	7895.71	7395.41	7895.71	8270.93	8896.31	8771.23	7958.24	9021.38	7958.24	8583.62	9646.76
A21.5.3	Range of Three half stall urinal with 10 litre P.V.C. automatic flushing cistern.	Each	11046.68	10312.98	11046.68	11596.96	12514.09	12330.67	11138.40	12697.52	11138.40	12055.53	13614.65
A21.5.4	Range of Four half stall urinal with 10 litre P.V.C. automatic flushing cistern.	Each	13876.47	12938.79	13876.47	14579.73	15751.84	15517.42	13993.68	15986.26	13993.68	15165.79	17158.36

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, Parryware/Hindware/Seabird/ Orient (Coral) with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required.												
A21.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	4071.91	3894.32	4071.91	4205.11	4427.10	4382.70	4094.11	4471.49	4094.11	4316.10	4693.48
A21.6.2	Range of two squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	5928.50	5632.18	5928.50	6150.75	6521.15	6447.07	5965.54	6595.23	5965.54	6335.95	6965.64
A21.6.3	Range of three squatting plate with 10 litre P.V.C. automatic flushing cistern	Each	7951.52	7522.26	7951.52	8273.47	8810.05	8702.73	8005.18	8917.36	8005.18	8541.76	9453.94
A21.6.4	Range of four squatting plate with 10 litre P.V.C. automatic flushing cistern	Each	9909.59	9361.60	9909.59	10320.59	11005.58	10868.58	9978.09	11142.58	9978.09	10663.09	11827.58
A21.7	Providing and fixing wash basin with C.I./M.S. brackets, 15 mm C.P. brass pillar taps, Kingston/Gem[Techno/Parko, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:												
	(A] White Vitreous China.												
A21.7.1	Wash basin size 630X450 mm with a pair of 15 mm C.P.brass pillar taps	Each	3929.17	3799.06	3929.17	4026.74	4189.37	4156.85	3945.43	4221.90	3945.43	4108.06	4384.53
A21.7.2	Wash basin size 630X450 mm with a single of 15 mm C.P.brass pillar taps	Each	3518.31	3404.01	3518.31	3604.04	3746.92	3718.34	3532.60	3775.49	3532.60	3675.48	3918.37
A21.7.3	Wash basin size 550x400 mm with a pair of 15 mm C.P.brass pillar taps	Each	4245.21	4115.10	4245.21	4342.78	4505.41	4472.89	4261.47	4537.94	4261.47	4424.10	4700.57
A21.7.4	Flat back wash basin size 550x400 mm with single 15 mm C.P. brass	Each	3057.42	2943.12	3057.42	3143.15	3286.03	3257.45	3071.71	3314.60	3071.71	3214.59	3457.48
A21.7.5	Angle back wash basin size 600x480 mm with single 15 mm C.P.brass	Each	3979.73	3878.07	3979.73	4055.98	4183.05	4157.64	3992.44	4208.47	3992.44	4119.51	4335.54
A21.7.6	Angle back wash basin size 400x400 mm with single 15 mm C.P.brass pillar tap	Each	2845.68	2758.77	2845.68	2910.86	3019.50	2997.77	2856.54	3041.23	2856.54	2965.18	3149.86
A21.7.7	Flat back wash basin size 450x300 mm with single 15 mm C.P.brass pillar tap	Each	3649.47	3575.20	3649.47	3705.17	3798.01	3779.44	3658.75	3816.58	3658.75	3751.59	3909.41
A21.7.8	Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers.	Each	3474.60	3232.83	3474.60	3655.92	3958.14	3897.69	3504.82	4018.58	3504.82	3807.03	4320.79
A21.7.9	Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked.	Each	2834.61	2640.25	2834.61	2980.39	3223.34	3174.75	2858.91	3271.94	2858.91	3101.87	3514.89
	(B] Salem Stainless Steel AISI-304(18/8)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.7.10	Round basin 405x355mm with single 15 mm C.P. brass pillar tap	Each	2953.39	2765.35	2953.39	3094.43	3329.48	3282.47	2976.90	3376.49	2976.90	3211.95	3611.55
A21.7.11	Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	Each	2483.28	2311.04	2483.28	2612.47	2827.77	2784.71	2504.81	2870.83	2504.81	2720.12	3086.13
A21.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	Each	1095.99	1014.81	1095.99	1156.88	1238.06	1238.06	1106.14	1278.66	1106.14	1207.62	1380.14
A21.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required.												
A21.9.1	White glazed fire clay kitchen sink of size 600x450x 250 mm	Each	3991.85	5962.62	3991.85	4138.41	4382.68	4333.83	4016.28	4431.54	4016.28	4260.55	4675.81
A21.10	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required												
A21.10.1	Kitchen sink with drain board												
A21.10.1.1	510x1040mm bowl depth 250 mm	Each	7048.07	6543.33	7048.07	7426.62	8057.54	7931.36	7111.16	8183.72	7111.16	7742.08	8814.64
A21.10.1.2	510x1040mm bowl depth 225 mm	Each	6781.90	6296.88	6781.90	7145.66	7751.94	7630.68	6842.53	7873.19	6842.53	7448.80	8479.47
A21.10.1.3	510x1040mm bowl depth 200 mm	Each	6116.47	5680.75	6116.47	6443.27	6987.93	6879.00	6170.94	7096.87	6170.94	6715.60	7641.53
A21.10.1.4	510x1040mm bowl depth 178 mm	Each	3703.70	3435.56	3703.70	3904.80	4239.98	4172.94	3737.22	4307.02	3737.22	4072.39	4642.19
A21.10.2	Kitchen sink without drain board												
A21.10.2.1	610x510mm bowl depth 200 mm	Each	3490.76	3238.39	3490.76	3680.04	3995.50	3932.41	3522.31	4058.59	3522.31	3837.77	4374.05
A21.10.2.2	610x460mm bowl depth 200 mm	Each	3091.51	2868.71	3091.51	3258.60	3537.10	3481.40	3119.36	3592.79	3119.36	3397.85	3871.29
A21.10.2.3	470x420mm bowl depth 178 mm	Each	2359.54	2190.97	2359.54	2485.97	2696.69	2654.55	2380.61	2738.83	2380.61	2591.33	2949.55
A21.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P.brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required:												
A21.11.1	Size 450x300x150mm	Each	2826.04	2695.22	2826.04	2924.15	3087.67	3054.97	2842.39	3120.38	2842.39	3005.91	3283.90
A21.11.2	Size 600x450x200mm	Each	3896.37	3677.65	3896.37	4060.41	4333.81	4279.13	3923.71	4388.49	3923.71	4197.11	4661.89

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.12	Providing and fixing draining board with C.I./M.S. brackets including painting of brackets, cutting and making good the walls wherever required.												
A21.12.1	White glazed fire clay draining board of size 600x450x25mm	Each	882.13	827.91	882.13	922.80	990.57	977.02	888.91	1004.13	888.91	956.69	1071.90
A21.13	Providing and fixing white vitreous china water closet squatting pan (Indian type)												
A21.13.1	Long pattern W.C. pan of size 580 mm	Each	696.75	665.73	696.75	720.02	758.80	751.04	700.63	766.55	700.63	739.41	805.33
A21.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	1440.04	1357.30	1440.04	1502.08	1605.50	1584.81	1450.38	1626.18	1450.38	1553.79	1729.59
A21.14	Extra for using coloured W.C. pan instead of white W.C. pan												
A21.14.1	Orissa pattern W.C. pan 580x440 mm	Each	671.95	622.17	671.95	709.28	771.50	759.05	678.17	783.94	678.17	740.39	846.16
A21.15	Providing and fixing white vitreous china pedestal type (European type/wash down type) water closet pan.	Each	1191.09	1130.79	1191.09	1236.33	1311.71	1296.63	1198.63	1326.79	1198.63	1274.02	1402.17
A21.16	Extra for using coloured pedestal type W.C. pan (European type) with low level cistern of same colour instead of white vitreous china W.C. pan and cistern.	Each	1193.85	1105.41	1193.85	1260.17	1370.71	1348.61	1204.90	1392.82	1204.90	1315.44	1503.36
A21.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:												
A21.17.1	250x130x30 mm	Each	180.10	168.39	180.10	188.88	203.53	200.60	181.56	206.46	181.56	196.21	221.10
A21.17.2	250x125x25 mm	Each	160.33	150.08	160.33	168.02	180.83	178.27	161.61	183.39	161.61	174.43	196.21
A21.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, Parryware/Hindware/Seabird/Orient (Coral) with all fittings and fixtures complete.												
A21.18.1	10 litre capacity - White	Each	1095.16	1032.02	1095.16	1142.51	1221.43	1205.65	1103.05	1237.21	1103.05	1181.97	1316.13
A21.18.2	10 litre capacity - coloured	Each	1256.03	1168.61	1256.03	1321.60	1430.87	1409.01	1266.96	1452.72	1266.96	1376.23	1562.00
A21.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.												
A21.19.1	10 litre (full flush) capacity-white	Each	1903.29	1784.79	1903.29	1992.17	2140.29	2110.67	1918.11	2169.92	1918.11	2066.23	2318.04
A21.19.2	10 litre (full flush) capacity-coloured	Each	2467.14	2306.87	2467.14	2587.34	2787.68	2747.61	2487.17	2827.74	2487.17	2687.51	3028.08
A21.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan Parryware/Hindware/Seabird/Orient (Coral)												
A21.20.1	White solid plastic seat with lid	Each	393.38	364.24	393.38	415.24	451.66	444.38	397.03	458.95	397.03	433.45	495.37
A21.20.2	Black solid plastic seat with lid	Each	327.82	303.54	327.82	346.03	376.38	370.31	330.85	382.46	330.85	361.21	412.81
A21.21	Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European type W.C. pan, instead of white plastic seat and cover.	Each	103.08	95.44	103.08	108.80	118.35	116.44	104.03	120.25	104.03	113.57	129.80
A21.22	Providing and fixing G. I. inlet connection for flush pipe connecting with W.C. pan.	Each	75.26	69.68	75.26	79.44	86.41	85.01	75.95	87.80	75.95	82.92	94.77

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	Each	693.28	649.57	693.28	726.06	780.69	769.77	698.74	791.62	698.74	753.38	846.26
A21.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	Each	1524.97	1418.12	1524.97	1605.10	1738.65	1711.94	1538.32	1765.37	1538.32	1671.88	1898.92
A21.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:												
A21.25.1	Flat back wash basin of size 630x450mm.	Each	1148.18	1063.13	1148.18	1211.97	1318.28	1297.02	1158.81	1339.55	1158.81	1265.13	1445.86
A21.25.2	Flat back wash basin of size 550x400mm.	Each	861.14	797.35	861.14	908.98	988.71	972.77	869.11	1004.66	869.11	948.84	1084.39
A21.25.3	Angle back wash basin of size 600x480mm.	Each	875.49	810.64	875.49	924.13	1005.19	988.98	883.60	1021.40	883.60	964.66	1102.47
A21.25.4	Angle back wash basin of size 400x400mm.	Each	717.61	664.46	717.61	757.48	823.93	810.64	724.26	837.22	724.26	790.70	903.66
A21.25.5	Flat back wash basin of size 450x300mm.	Each	688.91	637.88	688.91	727.18	790.97	778.21	695.29	803.73	695.29	759.08	867.52
A21.25.6	Surgeon type wash basin of size 660x460mm.	Each	1506.99	1395.36	1506.99	1590.71	1730.25	1702.34	1520.94	1758.15	1520.94	1660.48	1897.69
A21.26	Providing and fixing kitchen sink including making all connections excluding cost of fittings.												
A21.26.1	White glazed fire clay sink of size 600x450x250mm.	Each	2328.98	2156.47	2328.98	2458.37	2674.02	2630.89	2350.55	2717.15	2350.55	2566.19	2932.79
A21.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:												
A21.27.1	Size 450x300x150 mm.	Each	1127.31	1043.80	1127.31	1189.93	1294.31	1273.44	1137.74	1315.19	1137.74	1242.12	1419.57
A21.27.2	Size 600x450x200 mm.	Each	2325.07	2152.84	2325.07	2454.24	2669.52	2626.47	2346.60	2712.58	2346.60	2561.88	2927.86
A21.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.												
A21.28.1	Semi rigid pipe												
A21.28.1.1	32 mm dia	Each	52.19	48.32	52.19	55.09	55.09	58.96	52.67	60.89	52.67	57.51	65.72
A21.28.1.2	40 mm dia	Each	62.63	57.99	62.63	66.11	71.91	70.75	63.21	73.07	63.21	69.01	78.87
A21.28.2	Flexible rigid pipe												
A21.28.2.1	32 mm dia	Each	62.63	57.99	62.63	66.11	71.91	70.75	63.21	73.07	63.21	69.01	78.87
A21.28.2.2	40 mm dia	Each	70.46	65.24	70.46	74.37	80.89	79.59	71.11	82.20	71.11	77.63	88.72
A21.29	Providing and fixing 100mm sand cast Iron grating for gully, floor or Nahani trap.	Each	21.92	20.30	21.92	23.14	25.17	24.76	22.12	25.57	22.12	24.15	27.60
A21.30	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	Each	43.06	39.87	43.06	45.45	49.44	48.64	43.46	50.23	43.46	47.44	54.22
A21.31	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	707.36	674.08	707.36	732.32	773.92	765.60	711.52	782.24	711.52	753.12	823.84

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing												
A21.32.1	Circular shape 450mm dia.	Each	631.56	589.26	631.56	663.28	716.15	705.57	636.84	726.72	636.84	689.71	779.59
A21.32.2	Oval shape 450x350mm (outer dimensions)	Each	611.25	580.78	611.25	634.10	672.18	664.57	615.06	679.80	615.06	653.14	717.89
A21.32.3	Rectangular shape 1500x450 mm	Each	1538.86	1477.82	1538.86	1584.63	1660.92	1645.66	1546.48	1676.18	1546.48	1622.78	1752.47
A21.32.4	Rectangular shape 453x357 mm	Each	1071.99	999.31	1071.99	1126.49	1217.34	1199.17	1081.07	1235.50	1081.07	1171.91	1326.35
A21.33	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc., complete	Each	314.42	302.33	314.42	323.49	338.61	335.58	315.93	341.63	315.93	331.05	356.75
A21.34	Providing and fixing toilet paper												
A21.34.1	C.P. brass	Each	160.48	152.98	160.48	166.10	175.47	173.60	161.41	177.35	161.41	176.30	192.23
A21.34.2	Vitreous china	Each	206.19	195.30	206.19	214.35	227.96	225.23	207.55	230.68	207.55	221.15	244.28
A21.35	Providing and fixing soil, waste and vent pipes												
A21.35.1	100 mm dia.												
A21.35.1.1	Sand cast iron S&S pipe IS: 1729	Metre	578.83	536.71	578.83	610.42	663.08	652.55	584.10	673.61	584.10	636.75	726.26
A21.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS:3989	Metre	930.57	862.41	930.57	981.68	1066.88	1049.84	939.09	1083.92	939.09	1024.28	1169.11
A21.35.2	75 mm dia.												
A21.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	496.17	460.17	496.17	523.17	568.17	559.17	500.67	577.17	500.67	545.67	622.17
A21.35.2.2	Centrifugally cast (spun) iron S&S pipe as per 3989	Metre	877.78	813.53	877.78	925.96	1006.27	990.21	885.81	1022.34	885.81	966.12	1102.64
A21.36	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1 cement :2 fine sand) in S.C. 1 /C. I. pipes												
A21.36.1	75 mm dia pipe	Each	38.51	38.51	38.51	38.51	38.51	38.51	38.51	38.51	38.51	38.51	38.51
A21.36.2	100 mm dia pipe	Each	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21	46.21
A21.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the wall etc.												
A21.37.1	For 100 mm dia. Pipe	Each	84.80	82.17	84.80	86.84	90.05	89.37	85.09	90.73	85.09	88.40	94.04
A21.37.2	For 75 mm dia. Pipe	Each	82.06	79.64	82.06	83.95	86.91	86.28	82.33	87.54	82.33	85.38	90.59

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.												
A21.38.1	100 mm												
A21.38.1.1	Sand cast iron S&S as per IS - 1729	Each	314.12	290.85	314.12	331.57	360.66	354.84	317.03	366.47	317.03	346.11	395.56
A21.38.1.2	Centrifugally cast (spun) iron S&S	Each	411.84	381.34	411.84	434.73	472.86	465.23	415.66	480.49	415.66	453.79	518.62
A21.38.2	75 mm dia												
A21.38.2.1	Sand cast iron S&S as per IS - 1729	Each	228.96	212.00	228.96	241.68	262.88	258.64	231.08	267.12	231.08	252.28	288.32
A21.38.2.2	Centrifugally cast (spun) iron S&S	Each	326.68	302.49	326.68	344.83	375.08	369.03	329.71	381.13	329.71	359.96	411.38
A21.39	Providing and fixing plain bend of required degree.												
A21.39.1	100 mm												
A21.39.1.1	Sand cast iron S&S	Each	295.92	274.00	295.92	312.36	339.76	334.28	298.66	345.24	298.66	326.06	372.64
A21.39.1.2	Centrifugally cast (spun) iron S&S	Each	324.10	300.09	324.10	342.11	372.12	366.11	327.10	378.12	327.10	357.11	408.13
A21.39.2	75 mm												
A21.39.2.1	Sand cast iron S&S	Each	231.10	213.98	231.10	243.94	265.33	261.05	233.24	269.61	233.24	254.64	291.01
A21.39.2.2	Sand cast iron S&S	Each	246.60	228.33	246.60	260.30	283.13	278.56	248.88	287.70	248.88	271.71	310.53
A21.40	Providing and fixing heel rest sanitary bend												
A21.40.1	100 mm dia												
A21.40.1.1	Sand cast iron S&S	Each	324.10	300.09	324.10	342.11	372.12	366.11	327.10	378.12	327.10	357.11	408.13
A21.40.1.2	Centrifugally cast (spun) iron S&S	Each	380.47	352.28	380.47	401.60	436.83	429.79	383.99	443.88	383.99	419.22	479.10
A21.40.2	75 mm dia												
A21.40.2.1	Sand cast iron S&S	Each	242.62	224.64	242.62	256.09	278.56	274.07	244.86	283.05	244.86	267.33	305.52
A21.40.2.2	Centrifugally cast (spun) iron S&S	Each	338.19	313.14	338.19	356.98	388.29	382.03	341.32	394.56	341.32	372.64	425.87
A21.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.												
A21.41.1	100x100x100x100mm												
A21.41.1.1	Sand cast iron S&S	Each	630.98	584.24	630.98	666.03	724.46	712.77	636.82	736.14	636.82	695.24	794.57
A21.41.1.2	Centrifugally cast (spun) iron S&S	Each	725.96	672.19	725.96	766.30	833.51	820.07	732.69	846.96	732.69	799.90	914.18
A21.41.2	75x75x75x75mm												
A21.41.2.1	Sand cast iron S&S	Each	493.93	457.34	493.93	521.37	567.10	557.95	498.50	576.25	498.50	544.23	621.98
A21.41.2.2	Centrifugally cast (spun) iron S&S	Each	629.62	582.98	629.62	664.60	722.90	711.24	635.45	734.56	635.45	693.75	792.86
A21.42	Providing and fixing double equal plain junction of required degree.												
A21.42.1	100x100x100x100mm												
A21.42.1.1	Sand cast iron S&S	Each	583.49	540.26	583.49	615.90	669.93	659.12	588.89	680.73	588.89	642.91	734.76
A21.42.1.2	Centrifugally cast (spun) iron S&S	Each	692.04	640.78	692.04	730.49	794.57	781.75	698.45	807.38	698.45	762.53	871.46
A21.42.2	75x75x75x75mm												
A21.42.2.1	Sand cast iron S&S	Each	298.53	276.41	298.53	315.11	342.75	337.23	301.29	348.28	301.29	328.93	375.92
A21.42.2.2	Centrifugally cast (spun) iron S&S	Each	556.35	515.14	556.35	587.25	638.77	628.47	561.50	649.07	561.50	613.01	700.58

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.												
A21.43.1	100x100x100x100mm												
A21.43.1.1	Sand cast iron S&S	Each	464.43	430.02	464.43	490.23	533.23	524.63	468.73	541.83	468.73	511.73	584.83
A21.43.1.2	Centrifugally cast (spun) iron S&S	Each	595.95	551.80	595.95	629.05	684.23	673.20	601.46	695.27	601.46	656.64	750.45
A21.43.2	75x75x75x75mm												
A21.43.2.1	Sand cast iron S&S	Each	347.98	322.20	347.98	367.31	399.53	393.09	351.20	405.97	351.20	383.42	438.19
A21.43.2.2	Centrifugally cast (spun) iron S&S	Each	471.28	436.37	471.28	497.46	541.10	532.37	475.64	549.82	475.64	519.28	593.46
A21.44	Providing and fixing single equal plain junction of required degree.												
A21.44.1	100x100x100x100mm												
A21.44.1.1	Sand cast iron S&S	Each	397.30	367.87	397.30	419.37	456.16	448.80	400.98	463.51	400.98	437.76	500.30
A21.44.1.2	Centrifugally cast (spun) iron S&S	Each	548.00	507.40	548.00	578.44	629.18	619.03	553.07	639.33	553.07	603.81	690.07
A21.44.2	75x75x75x75mm												
A21.44.2.1	Sand cast iron S&S	Each	328.80	304.44	328.80	347.06	377.51	371.42	331.84	383.60	331.84	362.29	414.04
A21.44.2.2	Centrifugally cast (spun) iron S&S	Each	411.00	380.55	411.00	433.83	471.89	464.27	414.80	479.50	414.80	452.86	517.55
A21.45	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete												
A21.45.1	100x100x75x75mm												
A21.45.1.1	Sand cast iron S&S	Each	665.23	615.95	665.23	702.18	763.78	751.46	671.39	776.10	671.39	732.98	837.69
A21.45.1.2	Centrifugally cast (spun) iron S&S	Each	960.88	889.71	960.88	1014.27	1103.24	1085.44	969.78	1121.03	969.78	1058.75	1210.00
A21.46	Providing and fixing double unequal plain junction of required degree:												
A21.46.1	100x100x75x75mm												
A21.46.1.2	Sand cast iron S&S	Each	576.70	533.98	576.70	608.74	662.14	651.46	582.04	672.82	582.04	635.44	726.22
A21.46.1.3	Centrifugally cast (spun) iron S&S	Each	868.44	804.11	868.44	916.69	997.10	981.02	876.48	1013.18	876.48	956.90	1093.59
A21.47	Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:												
A21.47.1	100x100x75mm												
A21.47.1.1	Sand cast iron S&S	Each	461.36	427.19	461.36	486.99	529.71	521.17	465.63	538.25	465.63	508.35	580.97
A21.47.1.2	Centrifugally cast (spun) iron S&S	Each	739.53	684.75	739.53	780.62	849.09	835.40	746.38	862.79	746.38	814.86	931.26
A21.48	Providing and fixing single unequal plain junction of required degree:												
A21.48.1	100x100x75mm												
A21.48.1.1	Sand cast iron S&S	Each	427.44	395.77	427.44	451.18	490.76	482.85	431.39	498.68	431.39	470.97	538.25
A21.48.1.2	Centrifugally cast (spun) iron S&S	Each	630.20	583.51	630.20	665.21	723.56	711.89	636.03	735.23	636.03	694.38	793.58

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.49	Providing and fixing double equal plain invert branch of required degree:												
A21.49.1	100x100x100x100mm												
A21.49.1.1	Sand cast iron S&S	Each	622.84	576.70	622.84	657.44	715.11	703.57	628.60	726.64	628.60	686.27	784.31
A21.49.1.2	Centrifugally cast (spun) iron S&S	Each	563.13	521.42	563.13	594.42	646.56	636.13	568.35	656.99	568.35	620.49	709.13
A21.49.2	75x75x75x75mm												
A21.49.2.1	Sand cast iron S&S	Each	434.22	402.06	434.22	458.34	498.55	490.51	438.24	506.59	438.24	478.45	546.80
A21.49.2.2	Centrifugally cast (spun) iron S&S	Each	461.36	427.19	461.36	486.99	529.71	521.17	465.63	538.25	465.63	508.35	580.97
A21.50	Providing and fixing single equal plain invert branch of required degree:												
A21.50.1	100x100x100mm												
A21.50.1.1	Sand cast iron S&S	Each	447.79	414.62	447.79	472.67	514.13	505.84	451.94	522.42	451.94	493.40	563.88
A21.50.1.2	Centrifugally cast (spun) iron S&S	Each	474.93	439.75	474.93	501.31	545.29	536.49	479.33	554.08	479.33	523.30	598.06
A21.50.2	75x75x75mm												
A21.50.2.1	Sand cast iron S&S	Each	325.67	301.54	325.67	343.76	373.91	367.88	328.68	379.94	328.68	358.84	410.10
A21.50.2.2	Centrifugally cast (spun) iron S&S	Each	339.24	314.11	339.24	358.08	389.49	383.21	342.38	395.77	342.38	373.79	427.19
A21.51	Providing and fixing double unequal invert branch of required degree:												
A21.51.1	100x100x75x75mm												
A21.51.1.1	Sand cast iron S&S	Each	651.33	603.09	651.33	687.52	747.83	735.76	657.36	759.89	657.36	717.67	820.20
A21.51.1.2	Centrifugally cast (spun) iron S&S	Each	787.03	728.73	787.03	830.75	903.62	889.05	794.31	918.20	794.31	867.19	991.07
A21.52	Providing and fixing single unequal plain invert branch of required degree:												
A21.52.1	100x100x75mm												
A21.52.1.1	Sand cast iron S&S	Each	542.78	502.57	542.78	572.93	623.19	613.14	547.80	633.24	547.80	598.06	683.50
A21.52.1.2	Centrifugally cast (spun) iron S&S	Each	610.62	565.39	610.62	644.55	701.09	689.78	616.28	712.39	616.28	672.82	768.93
A21.53	Providing and fixing sand cast iron S&S offsets:												
A21.53.1	76 mm off sets												
A21.53.1.1	With 75 mm dia. Pipe	Each	190.23	176.14	190.23	200.80	218.42	214.89	191.99	221.94	191.99	209.61	239.55
A21.53.1.2	With 100 mm dia. Pipe	Each	310.01	287.05	310.01	327.23	355.94	350.20	312.88	361.68	312.88	341.58	390.38
A21.53.2	114 mm off sets												
A21.53.2.1	With 75 mm dia. Pipe	Each	352.28	326.19	352.28	371.85	404.47	397.95	355.54	411.00	355.54	388.16	443.62
A21.53.2.2	With 100 mm dia. Pipe	Each	436.83	404.47	436.83	461.10	501.55	493.46	440.88	509.64	440.88	481.32	550.08
A21.53.3	152 mm off sets												
A21.53.3.1	With 75 mm dia. Pipe	Each	387.51	358.81	387.51	409.04	444.92	437.74	391.10	452.10	391.10	426.98	487.98
A21.53.3.2	With 100 mm dia. Pipe	Each	514.33	476.23	514.33	542.91	590.53	581.01	519.10	600.06	519.10	566.72	647.68

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.54	Providing and fixing centrifugally cast (spun) iron S&S off sets:												
A21.54.1	75 mm off sets												
A21.54.1.1	With 75 mm dia. Pipe	Each	290.44	268.92	290.44	306.57	333.47	328.09	293.13	338.84	293.13	320.02	365.74
A21.54.2	150 mm off sets												
A21.54.2.1	With 75 mm dia. Pipe	Each	331.93	307.34	331.93	350.37	381.10	374.96	335.00	387.25	335.00	365.74	417.98
A21.54.2.2	With 100 mm dia. Pipe	Each	470.23	435.40	470.23	496.36	539.90	531.19	474.59	548.60	474.59	518.13	592.14
A21.55	Providing and fixing door piece, insertion rubber washer 3 mm thick, bolts & nuts complete												
A21.55.1	100 mm												
A21.55.1.1	Sand cast iron S&S	Each	445.25	412.27	445.25	469.98	511.21	502.96	449.37	519.45	449.37	490.60	560.68
A21.55.1.2	Centrifugally cast (spun) iron S&S	Each	458.95	424.95	458.95	484.44	526.94	518.44	463.20	535.44	463.20	505.69	577.93
A21.55.2	75 mm												
A21.55.2.1	Sand cast iron S&S	Each	320.58	296.83	320.58	338.39	368.07	362.13	323.55	374.01	323.55	353.23	403.69
A21.55.2.2	Centrifugally cast (spun) iron S&S	Each	306.88	284.15	306.88	323.93	352.34	346.66	309.72	358.02	309.72	338.13	386.44
A21.56	Providing and fixing terminal guard:												
A21.56.1	100 mm												
A21.56.1.1	Sand cast iron S&S	Each	246.60	228.33	246.60	260.30	283.13	278.56	248.88	287.70	248.88	271.71	310.53
A21.56.1.2	Centrifugally cast (spun) iron S&S	Each	253.45	234.67	253.45	267.53	291.00	286.30	255.79	295.69	255.79	279.26	319.16
A21.56.2	75 mm												
A21.56.2.1	Sand cast iron S&S	Each	198.65	183.93	198.65	209.68	228.08	224.40	200.49	231.76	200.49	218.88	250.15
A21.56.2.2	Centrifugally cast (spun) iron S&S	Each	232.90	215.65	232.90	245.84	267.40	263.09	235.05	271.71	235.05	256.62	293.28
A21.57	Providing and fixing collar:												
A21.57.1	100 mm												
A21.57.1.1	Sand cast iron S&S	Each	212.35	196.62	212.35	224.15	243.81	239.88	214.31	247.74	214.31	233.98	267.40
A21.57.1.2	Centrifugally cast (spun) iron S&S	Each	246.60	228.33	246.60	260.30	283.13	278.56	248.88	287.70	248.88	271.71	310.53
A21.57.2	75 mm												
A21.57.2.1	Sand cast iron S&S	Each	205.50	190.28	205.50	216.92	235.94	232.14	207.40	239.75	207.40	226.43	258.78
A21.57.2.2	Centrifugally cast (spun) iron S&S	Each	230.16	213.11	230.16	242.94	264.26	259.99	232.29	268.52	232.29	253.60	289.83
A21.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:												
A21.58.1	100 mm	Each	220.27	212.70	220.27	225.95	235.41	233.52	221.22	237.30	221.22	230.68	245.57
A21.58.2	75 mm	Each	146.80	140.04	146.80	151.87	160.32	158.63	147.65	162.01	147.65	156.09	170.45
A21.58.3	50 mm	Each	118.99	113.16	118.99	123.36	130.65	129.19	119.72	132.11	119.72	127.01	139.39
A21.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter:												
A21.59.1	100 mm	Each	100.27	92.84	100.27	105.84	115.13	113.27	101.20	116.98	101.20	110.48	126.27
A21.59.2	75 mm	Each	66.22	61.31	66.22	69.89	76.03	74.80	66.83	77.25	66.83	72.96	83.38
A21.59.3	50 mm	Each	52.97	49.05	52.97	55.92	60.82	59.84	53.46	61.80	53.46	58.37	66.71

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors												
A21.60.1	100 mm inlet and 100 mm outlet												
A21.60.1.1	Centrifugally Cast (Spun) Iron S&S	Each	445.28	414.62	445.28	468.27	506.59	498.93	449.11	514.26	449.11	487.43	552.58
A21.60.1.2	Sand Cast Iron S&S	Each	631.48	609.37	631.48	648.07	675.71	670.18	634.24	681.24	634.24	661.89	708.88
A21.60.2	100 mm inlet and 75 mm outlet												
A21.60.2.1	Centrifugally Cast (Spun) Iron S&S	Each	831.50	797.83	831.50	856.76	898.85	890.43	835.71	907.27	835.71	877.80	949.36
A21.60.2.2	Sand Cast Iron S&S	Each	558.36	540.26	558.36	571.93	594.54	590.02	560.62	599.06	560.62	583.23	621.68
A21.61	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement :3 coarse sand 6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement 4 coarse sand)												
A21.61.1	100 mm dia	Metre	283.04	254.81	283.04	306.13	339.49	331.79	285.60	347.19	285.60	321.53	383.12
A21.61.2	75 mm dia	Metre	196.30	177.05	196.30	212.05	234.79	229.54	198.05	240.04	198.05	222.55	264.54
A21.61.3	510mm dia	Metre	129.86	119.60	129.86	138.26	150.39	147.59	130.79	153.19	130.79	143.86	166.25
A21.62	Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern flush pipe, other fittings, etc. complete for new work.	Each	435.89	426.16	435.89	443.20	455.37	452.93	437.11	457.80	437.11	449.28	469.97
A21.63	Re-painting C. I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.	Each	312.85	298.40	312.85	323.69	341.75	338.14	314.66	345.36	314.66	354.74	363.42
A21.64	Repainting C.I. cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface of cistern flush pipe, other fittings etc. complete	Each	135.88	132.43	135.88	138.46	142.77	141.90	136.31	143.63	136.31	140.61	147.93
A21.65	Painting sand cast iron/centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work												
A21.65.1	100 mm diameter pipe	Each	42.47	41.55	42.47	42.70	44.31	44.08	42.58	44.54	42.58	43.74	45.69
A21.65.2	75 mm diameter pipe	Each	31.91	31.22	31.91	32.09	33.30	33.13	32.00	33.47	32.00	32.87	34.33

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.66	Repainting sand cast iron/centrifugally cast iron (spun) iron, soil, waste vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc												
A21.66.1	100 mm diameter pipe	Each	19.27	18.71	19.27	19.69	20.40	20.26	19.34	20.54	19.34	20.26	21.24
A21.66.2	75 mm diameter pipe	Each	14.99	14.55	14.99	15.32	15.32	15.76	15.04	15.97	15.04	15.76	16.52
A21.67	Repainting bath tub of size 1700x730x430mm with enamel paint.	Each	441.38	427.81	441.38	451.56	468.52	465.13	443.08	471.91	443.08	460.04	488.88
A21.68	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat lid with C.P. brass hinges and rubber buffers, ; 10 litre low level flushing cistern with fitting and brackets, 40mm flush bend 20mm overflow pipe with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required.												
A21.68.1	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.	Each	5215.20	4863.83	5215.20	5478.73	5917.95	5830.11	5259.12	6005.79	5259.12	5698.34	6445.01
A21.69	Providing and fixing PTMT Waste Coupling for wash basin and sink. of approved quality, colour and make (Prayag or equivalent)												
A21.69.1	Waste coupling 31 mm of 79mm length and 62mm breadth weighing not less than 45gms.	Each	88.07	81.55	88.07	92.96	101.12	99.49	88.89	102.75	88.89	97.04	110.90
A21.69.2	Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms.	Each	129.17	119.60	129.17	136.35	148.31	145.91	130.37	150.70	130.37	142.33	162.66
A21.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink (Prayag or equivalent)												
A21.70.1	Bottle trap 31 mm single piece moulded with height of 270mm. effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing nbt less than 260gms.	Each	479.10	443.62	479.10	505.72	550.08	541.21	483.54	558.96	483.54	527.90	603.32
A21.70.2	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 265mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighting not less than 270gms.	Each	514.33	476.23	514.33	542.91	590.53	581.01	519.10	600.06	519.10	566.72	647.68

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.71	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality colour and make, weighing not less than 105gms (Prayag or equivalent).	Each	255.86	236.91	255.86	270.08	293.77	289.03	258.23	298.51	258.23	281.92	322.20
A21.72	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality, colour and make weighing not less than 90 gms (Prayag or equivalent)	Each	244.80	226.66	244.80	258.40	281.06	276.53	247.06	285.60	247.06	269.73	308.26
A21.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (Prayag or equivalent).												
A21.73.1	450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.	Each	515.56	491.06	515.56	533.93	564.55	558.43	518.62	570.67	518.62	549.24	601.30
A21.73.2	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	Each	540.35	514.47	540.35	559.76	592.10	585.63	543.58	598.57	543.58	575.93	630.92
A21.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality, colour and make, weighing not less than 300gms (Prayag or equivalent) .	Each	621.38	590.87	621.38	644.27	682.40	674.78	625.20	690.03	625.20	663.33	728.17
A21.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes as per BIS specification, weighing not less than 60gms (Prayag or equivalent).	Each	235.12	217.70	235.12	248.18	269.95	265.59	237.29	274.30	237.29	259.06	296.07
A21.76	Providing and fixing PTMT (An Engineering Thermoplastic) urinal cock of approved quality colour.												
A21.76.1	15 mm nominal size 80 mm long. 44 mm high and 30 mm wide with BSP female threads weighing not less than 50gms (Prayag or equivalent)	Each	190.23	176.14	190.23	200.80	218.42	214.89	191.99	221.94	191.99	209.61	239.55

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A21.77	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75mm outside the wwall surface and fixed on wall with 4 nos., 6mm dia expansion hold fasteners including drilling necessary holes in brick wall/ CC /RCC surface and the cost of the bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30mm x 1.6 mm galvanised M.S. flats of specified shape and total of length 420mm and shall be fixed with M.S. nuts, bolts & washers of size 25x6mm, one bolt on each side of the pipe.												
A21.77.1	Total bracket length 580 mm of approved shape and design (for single 100mm dia pipe)	Each	200.50	186.58	200.50	211.58	228.34	224.64	201.90	232.05	201.90	219.53	249.68
A21.77.2	Total bracket length 810 mm of approved shape and design (for two 100mm dia pipe)	Each	269.79	251.19	269.79	284.68	306.99	302.01	271.62	311.98	271.62	295.20	335.56
A21.77.3	Total bracket length 1041 mm of approved shape and design (for three 100mm dia pipe)	Each	337.29	314.04	337.29	355.97	383.76	377.52	339.53	390.01	339.53	369.02	419.50

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	22. WATER SUPPLY												
	G. I. Pipes and fittings												
A22.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (internal work only)												
A22.1.1	Exposed on wall												
A22.1.1.1	15mm dia. nominal bore	Metre	142.05	134.86	142.05	147.44	156.43	154.64	142.95	158.23	142.95	151.94	167.22
A22.1.1.2	20mm dia. nominal bore	Metre	180.99	170.77	180.99	188.66	201.43	198.88	182.27	203.99	182.27	195.05	216.77
A22.1.1.3	25mm dia. nominal bore	Metre	233.20	219.57	233.20	243.42	260.47	257.06	234.90	263.87	234.90	251.94	280.91
A22.1.1.4	32mm dia. nominal bore	Metre	291.55	274.51	291.55	304.33	325.63	321.37	293.68	329.89	293.68	314.98	351.19
A22.1.1.5	40mm dia. nominal bore	Metre	319.25	301.07	319.25	332.88	355.61	351.06	321.52	360.15	321.52	344.25	382.88
A22.1.1.6	50mm dia nominal bore	Metre	460.40	433.13	460.40	480.85	514.94	508.12	463.81	521.75	463.81	497.89	555.84
A22.2	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall '												
A22.2.1	15 mm dia nominal bore	Metre	201.69	189.80	201.69	210.58	225.49	222.51	203.18	228.47	203.18	218.05	243.33
A22.2.2	20 mm dia nomina bore	Metre	241.64	222.10	241.64	252.75	271.36	267.64	243.50	275.08	243.50	262.08	293.64
A22.3	Providing and fixing G. I. pipes complete with G. I. fittings including trenching and refilling etc. (external work)												
A22.3.1	15mm dia. nominal bore	Metre	105.23	98.74	105.23	110.09	118.20	116.58	106.04	119.82	106.04	114.14	127.92
A22.3.2	20 mm dia. nominal bore	Metre	130.34	121.36	130.34	137.07	148.29	146.05	131.46	150.54	131.46	142.68	161.76
A22.3.3	25 mm dia. nominal bore	Metre	169.93	157.95	169.93	178.91	193.87	190.88	171.42	196.86	171.42	186.39	211.83
A22.3.4	32 mm dia. nominal bore	Metre	210.35	195.38	210.35	221.57	240.28	236.54	212.22	244.02	212.22	230.93	262.73
A22.3.5	40 mm dia. nominal bore	Metre	225.93	209.96	225.93	237.90	257.86	253.87	227.92	261.85	227.92	247.88	281.81
A22.3.6	50 mm dia. nominal bore	Metre	333.66	309.72	333.66	351.62	381.56	375.57	336.66	387.55	336.66	366.59	417.48
A22.3.7	65 mm dia. nominal bore	Metre	414.51	384.57	414.51	436.96	474.38	466.90	418.25	481.87	418.25	455.67	519.29
A22.3.8	80 mm dia. nominal bore	Metre	495.43	459.50	495.43	522.38	567.29	558.31	499.92	576.27	499.92	544.83	621.18
A22.4	Making connection of G.I. distribution branch with G.I.main of following sizes by providing and fixing tee,including cutting and threading the pipe etc. complete.												
A22.4.1	25 to 40 mm nominal bore	Each	207.68	201.69	207.68	212.17	219.66	218.16	208.43	221.15	208.43	215.91	228.64
A22.4.2	50 to 80 mm nominal bore	Each	564.23	529.15	564.23	590.55	634.40	625.63	568.62	643.17	568.62	612.47	687.02
A22.5	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately)	Each	208.68	207.46	208.68	209.61	211.14	210.84	208.84	211.45	208.84	210.38	212.99
	BRASS FITTINGS												
A22.6	Providing and fixing brass bib cock of approved quality.												
A22.6.1	15 mm nominal bore	Each	246.60	228.33	246.60	260.30	283.13	278.56	248.88	287.70	248.88	271.71	310.53
A22.6.2	20 mm nominal bore	Each	287.70	266.39	287.70	303.68	330.32	324.99	290.36	335.65	290.36	317.00	362.29

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.7	Providing and fixing brass stop cock of approved quality												
A22.7.1	15 mm nominal bore	Each	246.60	228.33	246.60	260.30	283.13	278.56	248.88	287.70	248.88	271.71	310.53
A22.7.2	20 mm nominal bore	Each	287.70	266.39	287.70	303.68	330.32	324.99	290.36	335.65	290.36	317.00	362.29
A22.8	Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end)												
A22.8.1	25 mm nominal bore	Each	376.75	348.84	376.75	397.68	432.56	425.58	380.24	439.54	380.24	415.12	474.42
A22.8.2	32 mm nominal bore	Each	520.60	482.03	520.60	549.52	597.72	588.08	525.42	607.36	525.42	573.62	655.57
A22.8.3	40 mm nominal bore	Each	650.75	602.54	650.75	686.90	747.15	735.10	656.77	759.20	656.77	717.02	819.46
A22.8.4	50 mm nominal bore	Each	975.43	903.18	975.43	1029.62	1119.94	1101.88	984.46	1138.00	984.46	1074.78	1228.32
A22.8.5	65 mm nominal bore	Each	1301.49	1205.08	1301.49	1373.80	1494.30	1470.20	1313.54	1518.41	1313.54	1434.05	1638.91
A22.8.6	80 mm nominal bore	Each	2082.38	1928.13	2082.38	2198.07	2390.89	2352.32	2101.67	2429.45	2101.67	2294.48	2622.26
A22.9	Providing and fixing ball valve (brass) of approved quality complete												
A22.9.1	High or low pressure with plastic floats												
A22.9.1	15 mm nominal bore	Each	265.39	245.73	265.39	280.13	304.70	299.79	267.84	309.62	267.84	292.42	334.19
A22.9.2	20 mm nominal bore	Each	398.08	368.59	398.08	420.20	457.05	449.68	401.77	464.43	401.77	438.63	501.29
A22.9.3	25 mm nominal bore	Each	457.05	423.20	457.05	482.45	524.77	516.30	461.29	533.23	461.29	503.61	575.55
A22.10	Providing and fixing gun metal non- return valve of approved quality (screwed end)												
A22.10.1	25 mm nominal bore												
A22.10.1.1	Horizontal	Each	414.91	384.18	414.91	437.96	476.38	468.70	418.75	484.06	418.75	457.17	522.48
A22.10.1.2	Vertical	Each	359.59	332.95	359.59	379.57	412.86	406.20	362.92	419.52	362.92	396.21	452.82
A22.10.2	32 mm nominal bore												
A22.10.2.1	Horizontal	Each	442.57	409.79	442.57	467.16	508.14	499.94	446.67	516.33	446.67	487.65	557.31
A22.10.2.2	Vertical	Each	539.38	499.43	539.38	569.35	619.29	609.30	544.38	629.28	544.38	594.32	679.22
A22.10.3	40 mm nominal bore												
A22.10.3.1	Horizontal	Each	580.88	537.85	580.88	613.15	666.93	656.17	586.25	677.69	586.25	640.04	731.47
A22.10.3.2	Vertical	Each	712.26	659.50	712.26	751.83	817.78	804.59	718.86	830.97	718.86	784.81	896.93
A22.10.4	50 mm nominal bore												
A22.10.4.1	Horizontal	Each	864.40	800.37	864.40	912.42	992.46	976.45	872.40	1008.46	872.40	952.44	1088.50
A22.10.4.2	Vertical	Each	995.79	922.02	995.79	1051.11	1143.31	1124.87	1005.01	1161.75	1005.01	1097.21	1253.95
A22.10.5	65 mm nominal bore												
A22.10.5.1	Horizontal	Each	1507.51	1395.84	1507.51	1591.26	1730.85	1702.93	1521.47	1758.76	1521.47	1661.05	1898.35
A22.10.5.2	Vertical	Each	1742.63	1613.54	1742.63	1839.44	2000.79	1968.52	1758.76	2033.06	1758.76	1920.12	2194.42
A22.10.6	80 mm nominal bore												
A22.10.6.1	Horizontal	Each	2129.88	1972.11	2129.88	2248.20	2445.41	2405.97	2149.60	2484.86	2149.60	2346.81	2682.07
A22.10.6.2	Vertical	Each	2821.40	2821.40	2821.40	2978.14	3239.38	3187.13	2847.52	3291.63	2847.52	3108.76	3552.87

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.11	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main.												
A22.11.1	15 mm nominal bore	Each	225.07	208.40	225.07	237.57	258.41	254.25	227.15	262.58	227.15	247.99	283.42
A22.11.2	20 mm nominal bore	Each	313.14	289.94	313.14	330.54	359.53	353.73	316.04	365.33	316.04	345.03	394.33
A22.11.3	25 mm nominal bore	Each	411.00	380.55	411.00	433.83	471.89	464.27	414.80	479.50	414.80	452.86	517.55
A22.12	Providing and fixing uplasticised PVC connection pipe with brass unions												
A22.12.1	30 cm length												
A22.12.1.1	15 mm nominal bore	Each	54.47	50.44	54.47	57.50	62.54	61.53	54.98	63.55	54.98	60.02	68.60
A22.12.1.2	20 mm nominal bore	Each	74.37	68.86	74.37	78.50	85.39	84.01	75.06	86.77	75.06	81.95	93.65
A22.12.2	45 cm length												
A22.12.2.1	15 mm nominal bore	Each	72.41	67.05	72.41	76.44	83.14	81.80	73.08	84.48	73.08	79.79	91.19
A22.12.2.2	20 mm nominal bore	Each	91.33	84.57	91.33	96.41	104.86	103.17	92.18	106.55	92.18	100.64	115.01
A22.13	Providing and fixing C.P. brass shower rose with 15 or 20mm inlet												
A22.13.1	100mm diameter	Each	52.19	48.32	52.19	55.09	59.92	58.96	52.67	60.89	52.67	57.51	65.72
A22.13.2	150 mm diameter	Each	81.55	75.51	81.55	86.08	93.63	92.12	82.30	95.14	82.30	89.85	102.69
	C. I. PIPES AND SPECIALS												
A22.14	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe)	Quintal	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55
A22.15	Laying in position S&S or flanged C. I. special such as tees, bends, collars, tapers and caps etc.(excluding cost of specials)	Quintal	177.47	177.47	177.47	177.47	177.47	177.47	177.47	177.47	177.47	177.47	177.47
A22.16	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)												
A22.16.1	Upto 300mm dia.	Quintal	4127.69	3838.71	4127.69	4344.43	4705.65	4633.40	4163.81	4777.89	4163.81	4525.04	5139.12
A22.16.2	Over 300mm dia.	Quintal	4493.02	4176.98	4493.02	4730.05	5125.10	5046.09	4532.53	5204.11	4532.53	4927.58	5599.16
A22.17	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536												
A22.17.1	100 mm dia. Pipe	Quintal	871.44	808.61	871.44	918.55	997.08	981.37	879.29	1012.78	879.29	957.81	1091.31
A22.17.2	125 mm dia. pipe	Quintal	1031.58	957.16	1031.58	1087.40	1180.42	1161.82	1040.89	1199.03	1040.89	1133.91	1292.05
A22.17.3	150 mm dia. Pipe	Quintal	1213.53	1247.24	1334.22	1399.46	1508.19	1486.44	1345.09	1529.93	1345.09	1453.82	1638.66
A22.17.4	200 mm dia. Pipe	Quintal	1786.83	1661.19	1786.83	1881.07	2038.12	2006.71	1802.54	2069.53	1802.54	1959.59	2226.58
A22.17.5	250 mm dia. Pipe	Quintal	2379.57	2207.54	2379.57	2508.60	2723.64	2680.63	2401.08	2766.65	2401.08	2616.12	2981.69
A22.17.6	300 mm dia. Pipe	Quintal	3093.47	2955.87	3093.47	3265.26	3551.58	3494.32	3122.10	3608.85	3122.10	3408.42	3895.17

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.18	Providing lead caulked joints to spun iron or C. I. pipes and specials including testing of joints but excluding the cost of pig lead.												
A22.18.1	100 mm diametre pipe	Each	108.75	107.08	108.75	110.00	112.08	111.67	108.96	112.50	108.96	111.04	114.58
A22.18.2	125 mm diametre pipe	Each	166.41	164.31	166.41	167.99	170.62	170.10	166.68	171.15	166.68	169.31	173.78
A22.18.3	150 mm diametre pipe	Each	167.48	165.03	167.48	169.32	172.39	171.78	167.79	173.01	167.79	170.86	176.08
A22.18.4	200 mm diametre pipe	Each	219.02	214.66	219.02	222.29	227.73	226.64	219.56	228.82	219.56	225.01	234.27
A22.18.5	250 mm diametre pipe	Each	270.05	264.47	270.05	274.24	281.21	279.82	270.75	282.61	270.75	277.73	289.59
A22.18.6	300 mm diametre pipe	Each	318.67	308.76	318.67	326.10	338.50	336.02	319.91	340.97	319.91	332.30	353.37
A22.19	Supplying and fitting joints pig lead at site of work.	Quintal	8492.97	7864.76	8492.97	8964.13	9749.40	9592.34	8571.50	9906.45	8571.50	9356.76	10691.72
	C.I. SLUICE VALVES, FIRE HYDRANTS AND FIXTURES												
A22.20	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately).												
A22.20.1	100 mm diametre												
A22.20.1.1	Class I	Each	3821.26	3579.63	3821.26	4002.47	4304.50	4244.09	3851.46	4364.90	3851.46	4153.48	4666.93
A22.20.1.2	Class II	Each	3913.67	3667.22	3913.67	4098.51	4406.58	4344.96	3944.48	4468.19	3944.48	4252.54	4776.26
A22.20.2	125 mm diametre												
A22.20.2.1	Class I	Each	4670.43	4367.92	4670.43	4897.31	5275.45	5199.82	4708.24	5351.07	4708.24	5086.38	5729.21
A22.20.2.2	Class II	Each	4837.09	4522.98	4837.09	5072.67	5465.30	5386.77	4876.35	5543.83	4876.35	5268.98	5936.46
A22.20.3	150 mm diametre												
A22.20.3.1	Class I	Each	5581.28	5214.01	5581.28	5856.72	6315.80	6223.99	5627.19	6407.62	5627.19	6086.26	6866.70
A22.20.3.2	Class II	Each	5874.00	5487.40	5874.00	6163.94	6647.18	6550.53	5922.32	6743.83	5922.32	6405.56	7227.07
A22.20.4	200 mm diametre												
A22.20.4.1	Class I	Each	9504.39	8854.92	9504.39	9991.50	10803.35	10640.98	9585.58	10965.72	9585.58	10397.43	11777.56
A22.20.4.2	Class II	Each	10107.98	9418.49	10107.98	10625.09	11486.96	11314.58	10194.16	11659.33	10194.16	11056.02	12521.19
A22.20.5	250mm diametre												
A22.20.5.1	Class I	Each	13914.06	12947.57	13914.06	14638.92	15847.02	15605.40	14034.87	16088.64	14034.87	15242.97	17296.75
A22.20.5.2	Class II	Each	14132.76	13156.62	14132.76	14864.88	16085.06	15841.02	14254.78	16329.10	14254.78	15474.97	17549.28
A22.20.6	300mm diametre												
A22.20.6.1	Class I	Each	17578.38	16350.94	17578.38	18498.95	20033.24	19726.39	17731.81	20340.10	17731.81	19266.10	21874.39
A22.20.6.2	Class II	Each	19021.33	17697.25	19021.33	20014.39	21669.50	21338.48	19186.84	22000.52	19186.84	20841.94	23655.62

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.21	Chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for stop cock, with C. I surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand: 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design.												
A22.21.1	With F.P.S. bricks	Each	1097.76	869.18	1097.76	1284.11	1554.93	1492.82	1118.89	1617.04	1118.89	1409.58	1907.75
A22.22	Constructing masonry Chamber 60x60x75 cm. inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for sluice valve, with C.I. surface box 100mm. top diameter. 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.												
A22.22.1	With F.P.S. bricks	Each	4735.78	4005.89	4735.78	5326.99	6195.58	5998.55	4805.15	6392.64	4805.15	5732.11	7319.62
A22.23	Constructing masonry Chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.												
A22.23.1	With F.P.S. bricks	Each	7434.73	6075.60	7434.73	8536.93	10152.97	9785.64	7563.24	10520.36	7563.24	9289.74	12246.94

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.24	Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for sluice valve, with C.I. surface box 100 mm. top diameter. 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.												
A22.24.1	With F.P.S. bricks	Each	10745.73	8791.73	10745.73	12330.08	14653.70	14125.68	10930.62	15181.80	10930.62	13412.69	17663.98
A22.25	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for fire hydrants. with C.I. surface box 350x350 mm. top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.												
A22.25.1	With F.P.S. bricks	Each	4180.87	3404.55	4180.87	4810.73	5733.50	5523.58	4254.12	5943.45	4254.12	5240.38	6929.74
A22.26	Constructing masonry Chamber 60x45x50 cm. inside with 75 class designation brick work in cement mortar 1:5 (1 cement :5 fine sand) for water meter complete with C.I.double flap surface box 400x200x200mm. (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand: 0 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per												
A22.26.1	With F.P.S. bricks	Each	4055.37	2911.63	3526.41	4023.58	4755.95	4590.24	3585.22	4921.67	3585.22	4365.71	5702.19
A22.27	Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work.												
A22.27.1	15 mm diameter pipe.	Metre	7.60	7.44	7.60	7.64	7.93	7.89	7.62	7.97	7.62	7.83	8.18
A22.27.2	20 mm diameter pipe.	Metre	9.12	8.93	9.12	9.17	9.52	9.47	9.15	9.57	9.15	9.40	9.82
A22.27.3	25 mm diameter pipe.	Metre	11.41	11.16	11.41	11.47	11.90	11.84	11.44	11.96	11.44	11.75	12.27
A22.27.4	32 mm diameter pipe.	Metre	13.69	13.39	13.69	13.76	14.28	14.21	13.72	14.35	13.72	14.10	14.72

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.27.5	40 mm diameter pipe.	Metre	15.21	14.88	15.21	15.29	15.87	15.79	15.25	15.95	15.25	15.66	16.36
A22.27.6	50 mm diameter pipe.	Metre	18.25	17.85	18.25	18.35	19.04	18.94	18.30	19.14	18.30	18.79	19.63
A22.28	Repainting G.I. pipes and fittings with synthetic enamel white paint.												
A22.28.1	15 mm diameter pipe.	Metre	3.69	3.59	3.69	3.78	3.91	3.88	3.71	3.94	3.71	3.88	4.07
A22.28.2	20 mm diameter pipe.	Metre	4.33	4.20	4.33	4.42	4.58	4.55	4.35	4.61	4.35	4.55	4.77
A22.28.3	25 mm diameter pipe.	Metre	5.44	5.28	5.44	5.56	5.76	5.72	5.46	5.79	5.46	5.72	5.99
A22.28.4	32 mm diameter pipe.	Metre	6.83	6.64	6.83	6.99	7.24	7.19	6.86	7.29	6.86	7.19	7.54
A22.28.5	40 mm diameter pipe.	Metre	7.79	7.56	7.79	7.96	8.24	8.19	7.82	8.30	7.82	8.19	8.59
A22.28.6	50 mm diameter pipe.	Metre	9.70	9.42	9.70	9.92	10.27	10.20	9.74	10.34	9.74	10.20	10.70
A22.29	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality.												
A22.29.1	15 mm diameter pipes	Metre	4.29	4.23	4.29	4.31	4.42	4.40	4.30	4.44	4.30	4.38	4.51
A22.29.2	20 mm diameter pipes	Metre	5.01	4.94	5.01	5.03	5.16	5.14	5.02	5.18	5.02	5.11	5.27
A22.29.3	25 mm diameter pipes	Metre	5.72	5.64	5.72	5.75	5.89	5.87	5.74	5.91	5.74	5.84	6.02
A22.29.4	32 mm diameter pipes	Metre	6.21	6.12	6.21	6.23	6.39	6.37	6.22	6.42	6.22	6.34	6.53
A22.29.5	40 mm diameter pipes	Metre	7.53	7.42	7.53	7.56	7.76	7.73	7.55	7.78	7.55	7.69	7.92
A22.29.6	50 mm diameter pipes	Metre	8.64	9.17	9.30	9.34	9.58	9.54	9.32	9.61	9.32	9.49	9.78
A22.29.7	65 mm diameter pipes	Metre	10.22	10.07	10.22	10.26	10.52	10.49	10.24	10.56	10.24	10.43	10.75
A22.29.8	80 mm diameter pipes	Metre	11.22	11.06	11.22	11.27	11.56	11.51	11.25	11.60	11.25	11.45	11.80
A22.30	Boring with 100mm diameter casting pipe for hand pump/tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and												
A22.30.1	Upto 6 metres depth.	Metre	208.29	202.75	208.29	212.44	219.37	217.98	208.98	220.75	208.98	215.91	227.68
A22.30.2	Beyond 6 m and upto 12 m depth	Metre	252.19	245.47	252.19	257.23	265.64	263.96	253.03	267.32	253.03	261.44	275.72
A22.30.3	Beyond 12 m and upto 18 m depth	Metre	298.04	290.03	298.04	304.04	314.05	312.05	299.04	316.05	299.04	309.05	326.06
A22.31	Providing and placing in position filters of 40 mm diameter G. I. pipe with brass strainer of approved quality.	Metre	530.15	496.21	530.15	555.61	598.04	589.56	534.40	606.53	534.40	576.83	648.96
A22.32	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.	Metre	221.62	205.69	221.62	233.57	253.48	249.50	223.61	257.46	223.61	243.52	277.38
A22.33	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	Each	795.57	741.29	795.57	836.28	904.13	890.56	802.35	917.69	802.35	870.20	985.54
A22.34	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work)												
A22.34.1	15mm nominal bore	Each	103.03	99.55	103.03	105.65	110.00	109.13	103.47	110.87	103.47	107.82	115.23
A22.34.2	20 mm nominal bore	Each	116.97	111.99	116.97	120.70	126.92	125.68	117.59	128.17	117.59	123.81	134.39
A22.34.3	25 mm nominal bore	Each	135.50	129.39	135.50	140.08	147.72	146.20	136.26	149.25	136.26	143.90	156.89
A22.34.4	32 mm nominal bore	Each	161.92	154.03	161.92	167.83	177.69	175.72	162.91	179.66	162.91	172.76	189.52

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.34.5	40 mm nominal bore	Each	210.54	199.10	210.54	219.13	233.44	230.58	211.97	236.30	211.97	226.28	250.61
A22.34.6	50 mm nominal bore	Each	298.70	283.08	298.70	310.42	329.94	326.03	300.65	333.84	300.65	320.18	353.37
A22.34.7	65 mm nominal bore	Each	526.39	494.17	526.39	550.55	590.81	582.76	530.41	598.87	530.41	570.68	639.13
A22.34.8	80 mm nominal bore	Each	625.22	585.69	625.22	654.87	704.29	694.41	630.16	714.17	630.16	679.58	763.59
	C.P. BRASS FITTINGS												
A22.35	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931												
A22.35.1	15 mm nominal bore	Each	356.20	329.81	356.20	375.99	408.97	402.37	359.50	415.56	359.50	392.48	448.54
A22.36	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.												
A22.36.1	15 mm nominal bore	Each	432.79	400.73	432.79	456.83	496.90	488.89	436.79	504.92	436.79	476.87	544.99
A22.37	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.												
A22.37.1	15 mm nominal bore	Each	359.59	332.95	359.59	379.57	412.86	406.20	362.92	362.92	362.92	396.21	452.82
A22.38	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to												
A22.38.1	15 mm nominal bore	Each	356.20	329.81	356.20	375.99	408.97	402.37	359.50	415.56	359.50	392.48	448.54
A22.39	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931												
A22.39.1	15 mm nominal bore	Each	397.30	367.87	397.30	419.37	456.16	448.80	448.80	463.51	400.98	437.76	500.30
	P.T.M.T. Fitting:												
A22.40	Providing and fixing PTMT (An Engineering thermoplastic) bib cock of approved quality colour and make (Prayag or equivalent)												
A22.40.1	15mm nominal size, 86mm long, 102 mm high and 43 mm wide with 12 mm seat dia and replaceable washers, weighing not less than 99gms.	Each	183.19	169.62	183.19	193.36	210.33	206.93	184.88	213.72	184.88	201.85	230.68
A22.40.2	15 mm nominal size. 122 mm long, 110 mm high and 43 mm wide with 12 mm seat dia. and replaceable washers, weighing not less than 110 gms.	Each	301.40	279.07	301.40	318.14	346.05	340.47	304.19	351.63	304.19	332.10	379.54
A22.40.3	15mm nominal size, 165mm long, 110 mm high and 43mm wide with 12 mm seat dia. and replaceable washers, weighing not less than 110 gms.	Each	219.20	202.96	219.20	231.38	251.67	247.61	221.23	255.73	221.23	241.52	276.03
A22.40.4	15mm nominal size, 90 mm long, 130mm high and 43mm wide with 12mm sheet dia and replaceable washer weighing not less than 93gms (Bib Cock with nozzle)	Each	195.45	180.97	195.45	206.31	224.41	220.79	197.26	228.03	197.26	215.36	246.12

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.41	Providing and fixing PTMT (An Engineering thermoplastic) stop cock of approved quality colour and make (Prayag or equivalent)												
A22.41.1	15mm nominal size, 86mm long, 90mm high and 43mm wide with 12mm seat dia and replaceable washers, weighing not less than 880gms	Each	176.14	163.09	176.14	185.93	202.24	198.97	177.77	205.50	177.77	194.08	221.81
A22.41.2	15mm nominal size, 86mm long.(F/T) 90mm high and 43mm wide with 12mm seat dia. and replaceable washers. weighing not less than 90gms	Each	176.14	163.09	176.14	185.93	202.24	198.97	177.77	205.50	177.77	194.08	221.81
A22.41.3	20mm nominal size, 89mm long, 86mm high and 43mm wide with 12mm seat dia. and replaceable washers, weighing not less than 90gms	Each	209.41	193.90	209.41	221.05	240.44	236.56	211.35	244.31	211.35	230.74	263.70
A22.41.4	Concealed stop cock with delux handle. 15mm nominal size, 110mm long, 64mm high and 59mm dia sliding flange with 12mm seat dia and replaceable washers weghing not less than 110gms.	Each	301.40	279.07	301.40	318.14	346.05	340.47	304.19	351.63	304.19	332.10	379.54
A22.42	Providing and fixing PTMT (An Engineering thermoplastic) pillar cock of approved quality colour and make (Prayag or equivalent)												
A22.42.1	15mm nominal size, 107mm long, 131 mm high and 43mm wide with 12mm seat dia and replaceable washers, weighing not less than 115gms.	Each	265.26	245.61	265.26	279.99	304.55	299.64	267.71	309.47	267.71	292.27	334.03
A22.42.2	15 mm nominal size, 125 mm long 131 mm high and 43 mm wide with 12 mm seat dia and replaceable washers weighing not less than 125gms (fancy with delux handle)	Each	393.25	279.07	301.40	318.14	346.05	340.47	304.19	351.63	304.19	332.10	379.54
A22.43	Providing and fixing PTMT (An Engineering thermoplastic), push cock of approved quality colour and make. (Prayag or equivalent).												
A22.43.1	15 mm nominal size, with 20 mm B.S.P. female threads, 100 mm long. 57 mm high and 33 mm wide with 12 mm seat dia and replaceable washers, weighing not less than 75gms.	Each	163.55	151.44	163.55	172.64	187.78	184.75	165.07	190.81	165.07	180.21	205.95
A22.43.2	15 mm nominal size, with 12 mm B.S.P. female threads, 80 mm long, 30 mm high and 30 mm wide with 12 mm seat dia and replaceable washers,weighing not less than 47gms	Each	142.22	131.68	142.22	150.12	163.29	160.65	143.53	165.92	143.53	156.70	179.09
A22.44	Providing and fixing PTMT (An Engineeing thermoplastic) grating of approved quality, colour and make (Prayag or equivalent).												
A22.44.1	Circular type												
A22.44.1.1	100 mm nominal dia 12 mm high. domed shape conforming to I.S. standards and weighing not less than 25gms.	Each	60.02	55.57	60.02	63.35	68.91	67.80	60.57	70.02	60.57	66.13	75.58
A22.44.1.2	125 mm nominal dia., 15 mm high domed shape conforming to I.S. standards and weighing not less than 40 gms.	Each	75.02	69.47	75.02	79.19	86.14	84.75	75.72	87.53	75.72	82.66	94.47
A22.44.1.3	125 mm nominal dia., 14 mm high, domed shape withb 25 mm waste hole conforming to I.S.standards and weighing not less than 40 gms.	Each	75.02	69.47	75.02	79.19	86.14	84.75	75.72	87.53	75.72	82.66	94.47

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.44.2	Rectangular type with openable circular lid.												
A22.44.2.1	150 mm nominal size square, 18 mm high with 100 mm diametre of the inner hinged round grating domed shape conforming to I.S. standards. weighing not less than 100 gms.	Each	171.25	158.56	171.25	180.76	196.62	193.45	172.83	199.79	172.83	188.69	215.65
A22.44.2.2	150 mm nominal size square, 18mm high with 100 mm dia. of the inner of hinged round grating domed shape with 31 mm waste hole conforming to I.S. standards, weighing not less than 100 gms	Each	171.25	158.56	171.25	180.76	196.62	193.45	172.83	199.79	172.83	188.69	215.65
A22.45	Providing anf fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball (Prayag or equivalent).												
A22.45.1	15 mm nominal size, 110 mm long, 70 mm high and 40 mm wide with piston travel of minimum 5mm, having weight not less than 142gms, (62+25+55) (Body+Rod+Ball). Provided with leverage of minimum 230 mm and one piece moulded H.D. plastic ball of 114 mm dia.	Each	224.78	208.13	224.78	237.27	258.08	253.92	226.86	262.25	226.86	247.68	283.06
A22.45.2	20 mm nominal size, 125 mm long, 77 mm high and 42 mm wide with piston travel of minimum 6.5 mm, having weight not less than 210gms, (100+40+70) (Body+Rod+Ball). Provided with leverage of minimum 310 mm and one piece moulded H.D. plastic ball of 127 mm dia.	Each	307.92	285.11	307.92	325.03	353.54	347.84	310.77	359.24	310.77	339.28	387.75
A22.45.3	25 mm nominal size, 155 mm long, 96 mm high and 52 mm wide with piston travel of minimum 8 mm. having weight not less than 455gms, (170+85+200) (Body+Rod+Ball). Provided with leverage of minimum 390 mm and one piece moulded H.D. plastic ball of 152 mm dia.	Each	703.98	651.83	703.98	743.09	808.27	795.24	710.50	821.31	710.50	775.68	886.49
A22.45.4	40 mm nominal size. 210 mm long, 118 mm high and 63 mm wide with piston travel of minimum 11 mm, having weight not less than 690gms. (260+195+235) (Body+Rod+Ball). Provided with leverage of minimum 395 mm and one piece moulded H.D. plastic ball of 203 mm dia.	Each	1274.09	1179.71	1274.09	1344.87	1462.84	1439.25	1285.89	1486.44	1285.89	1403.86	1604.41
A22.45.5	50 mm nominal size. 245 mm long, 164 mm high and 93 mm wide with piston travel of minimum 16 mm, having weight not less than 1240gms. (460+290+490) (Body+Rod+Ball). Provided with leverage of minimum 710 mm and one piece moulded H.D. plastic ball of 254 mm dia.	Each	1908.33	1766.97	1908.33	2014.35	2191.05	2155.71	1926.00	2226.39	1926.00	2102.70	2403.08
A22.46	Providing and fixing PTMT angle stop cock 15 mm nominal size with deluxe handles. 59 mm wide. 125 mm high and 42 mm breadth with 12 mm seat dia. And replaceable washers, weighing not less than 90gms. Provided with flange of 56 mm dia, of approved quality colour and make (Prayag or equivalent)	Each	209.41	193.90	209.41	221.05	240.44	236.56	211.35	244.31	211.35	230.74	263.70

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A22.47	Providing and fixing PTMT swivelling shower, 15 mm nominal size, 95 mm long, 65 mm dia.of approved quality colour and make weighing not less than 40gms with approximate 80 holes of 1.2 mm dia (Prayag or equivalent).	Each	156.44	144.85	156.44	165.13	179.62	176.72	157.89	182.51	157.89	172.37	197.00
A22.48	Providing and fixing PTMT shower arm, 15 mm nominal size. 1/2" BSP threads 195 mm long with a bend of 45 (effective length of 210 mm). Provided with flange of 56 mm dia., of approved quality colour and make weighing not less than 40gms (Prayag or equivalent)	Each	102.40	94.81	102.40	108.09	117.57	115.67	103.35	119.46	103.35	112.83	128.94
A22.49	Providing and fixing PTMT Soap Dish Holder having length of 138 mm, breadth 102 mm. height of 75 mm with concealed fitting arrangements. weighing not less than 110gms	Each	174.51	161.58	174.51	184.21	200.36	197.13	176.13	203.60	176.13	192.28	219.75
A22.50	Providing and fixing PTMT Flange 15 mm size, 56 mm dia. suitable for 15 mm taps and weighing not less than 5gms (Prayag or equivalent)	Each	16.75	15.51	16.75	17.68	19.23	18.92	16.91	19.55	16.91	18.46	21.10
A22.51	Providing and fixing PTMT extension Nipples 15 mm size with 12" BSP threads, 70 mm length and 30 mm breadth and weighing not less than 18gms (Prayag or equivalent)	Each	55.84	51.71	55.84	58.95	64.12	63.08	56.36	65.15	56.36	61.53	70.32
A22.52	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538												
A22.52.1	Upto 300 mm dia	Quintal	5575.97	5179.71	5575.97	5873.16	6368.48	6269.42	5625.50	6467.55	5625.50	6120.82	6962.87
A22.52.2	Above 300 mm dia	Quintal	6097.87	5662.95	6097.87	6424.06	6967.70	6858.97	6152.23	7076.43	6152.23	6695.88	7620.08
A22.53	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts of approved quality, colour and make (Prayag or equivalent)												
A22.53.1	15 mm nominal bore with 30cm length.	Each	54.86	50.80	54.86	57.91	62.99	61.98	55.37	64.01	55.37	60.45	69.09
A22.53.2	15 mm nominal bore. with 45cm length.	Each	66.22	61.31	66.22	69.89	76.03	74.80	66.83	77.25	66.83	72.96	83.38
A22.54	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality, colour and make (Prayag or equivalent).												
A22.54.1	15 mm nominal size, with dimensions 67x40x40 mm weighing not less than 38gms.	Each	52.06	48.20	52.06	54.95	59.77	58.81	52.54	60.74	52.54	57.36	65.56
A22.54.2	20 mm nominal size with dimensions 69x43x43 mm weighing not less than 45gms.	Each	59.50	55.09	59.50	62.80	68.31	67.21	60.05	69.41	60.05	65.56	74.92
A22.54.3	25 mm nominal size with dimensions 81x51 x51 mm weighing not less than 65gms.	Each	99.55	92.18	99.55	105.08	114.30	112.46	100.47	116.14	100.47	109.69	125.36

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
	23. DRAINAGE												
	NOTE : - The rates given for all the items under sub-head 'Drainage' are applicable to work executed in soils above sub-soil water level. Extra allowance has to be made for work under sub-soil water level.												
	(A) STONE WARE PIPES AND FITTINGS												
A23.1.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.												
A23.1.1.1	100 mm diameter	Metre	152.37	143.61	152.37	159.00	169.88	167.67	153.43	172.10	153.43	174.76	183.07
A23.1.1.2	150 mm diameter	Metre	214.99	201.16	214.99	225.50	242.66	239.16	216.65	246.16	216.65	249.93	263.50
A23.1.1.3	200 mm diameter	Metre	326.60	304.67	326.60	343.25	370.47	364.93	329.25	376.02	329.25	382.30	403.51
A23.1.1.4	230 mm diameter	Metre	363.00	338.88	363.00	381.34	411.24	405.13	365.90	417.35	365.90	423.63	447.58
A23.1.1.5	250 mm diameter	Metre	485.24	455.19	485.24	508.13	545.36	537.73	488.83	552.99	488.83	559.96	590.67
A23.1.1.6	300 mm diameter	Metre	651.58	608.73	651.58	684.21	737.28	726.41	656.69	748.16	656.69	758.11	801.88
A23.1.1.7	400 mm diameter	Metre	1678.75	1558.62	1678.75	1770.03	1919.03	1888.60	1693.18	1949.45	1693.18	1981.58	2100.01
A23.1.1.8	500 mm diameter	Metre	3337.83	3090.78	3337.83	3525.58	3831.92	3769.33	3367.47	3894.50	3367.47	3959.24	4204.13
A23.1.1.9	600 mm diameter	Metre	4944.35	4563.60	4944.35	5235.44	5705.85	5608.82	4989.18	5802.88	4989.18	5868.13	6280.66
A23.1.2	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:3 (1 cement : 3 fine sand) including testing of joints etc. complete.												
A23.1.2.1	100 mm diameter	Metre	150.74	141.98	150.74	157.38	168.26	166.04	151.80	170.47	151.80	173.14	181.44
A23.1.2.2	150 mm diameter	Metre	249.51	234.37	249.51	261.09	279.80	275.94	251.30	283.66	251.30	286.24	302.66
A23.1.2.3	200 mm diameter	Metre	368.58	343.76	368.58	387.59	418.22	411.89	371.49	424.56	371.49	428.21	455.71
	NOTE : This item is to be operated for storm water dram.												
A23.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :												
A23.2.1	100 mm diameter S.W. pipe	Metre	392.36	321.75	392.36	450.14	533.59	514.33	398.78	552.85	398.78	488.65	642.72
A23.2.2	150 mm diameter S.W. pipe	Metre	441.41	361.97	441.41	506.41	600.29	578.62	448.63	621.95	448.63	549.74	723.06
A23.2.3	200 mm diameter S.W. pipe	Metre	514.98	422.30	514.98	590.81	700.34	675.06	523.40	725.61	523.40	641.36	843.57
A23.2.4	230 mm diameter S.W. pipe	Metre	588.55	482.63	588.55	675.21	800.38	771.50	598.18	829.27	598.18	732.98	964.08
A23.2.5	250 mm diameter S.W. pipe	Metre	613.07	502.74	613.07	703.34	833.73	803.64	623.10	863.82	623.10	763.52	1004.25

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :												
A23.3.1	100 mm diameter S.W. pipe	Metre	176.56	144.79	176.56	202.56	240.12	231.45	179.45	248.78	179.45	219.89	289.22
A23.3.2	150 mm diameter S.W. pipe	Metre	294.27	241.31	294.27	337.60	400.19	385.75	299.09	414.64	299.09	366.49	482.04
A23.3.3	200 mm diameter S.W. pipe	Metre	343.32	281.53	343.32	393.87	466.89	450.04	348.94	483.74	348.94	427.57	562.38
A23.3.4	230 mm diameter S.W. pipe	Metre	367.84	301.64	367.84	422.00	500.24	482.19	373.86	518.29	373.86	458.11	602.55
A23.3.5	250 mm diameter S.W. pipe	Metre	392.36	321.75	392.36	450.14	533.59	514.33	398.78	552.85	398.78	488.65	642.72
A23.3.6	300 mm diameter S.W. pipe	Metre	441.41	361.97	441.41	506.41	600.29	578.62	448.63	621.95	448.63	549.74	723.06
A23.3.7	400 mm diameter S.W. pipe	Metre	490.46	402.19	490.46	562.67	666.99	642.91	498.48	691.06	498.48	610.82	803.40
A23.3.8	500 mm diameter S.W. pipe	Metre	686.64	563.07	686.64	787.74	933.78	900.08	697.87	967.48	697.87	855.15	1124.76
A23.3.9	600 mm diameter S.W. pipe	Metre	784.73	643.50	784.73	900.28	1067.18	1028.66	797.57	1105.70	797.57	977.31	1285.44
A23.4	Providing and fixing square-mouth S.W. gully trap grade'A' complete with C.I. grating brick masonry chamber with water tight C. I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:												
A23.4.1	100 x 100 mm size P type												
A23.4.1.1	With F.P.S. Bricks class designation 75	Each	958.49	818.81	958.49	1070.21	1237.87	1200.63	972.48	1275.10	972.48	1199.98	1452.03
A23.4.1.2	With Sewer bricks conforming to IS . 4885	Each	1190.30	1000.33	1190.30	1342.98	1570.24	1519.36	1208.95	1621.13	1503.92	1503.92	1862.00
A23.4.2	125 x 100 mm size P type												
A23.4.2.1	With F.P.S. Bricks class designation 75	Each	1101.55	927.74	1101.55	1241.01	1449.18	1402.69	1118.73	1495.66	1118.73	1393.13	1715.97
A23.4.2.2	With Sewer bricks conforming to IS . 4885	Each	1191.32	993.49	1191.32	1350.61	1586.98	1586.98	1533.90	1640.08	1210.60	1512.10	1891.01
A23.4.3	150 x 100 mm size P type												
A23.4.3.1	With F.P.S. Bricks class designation 75	Each	1125.27	949.70	1125.27	1266.05	1476.41	1429.49	1142.67	1523.34	1142.67	1421.62	1745.84
A23.4.3.2	With Sewer bricks conforming to IS . 4885	Each	1250.62	1048.40	1250.62	1413.21	1655.07	1600.89	1270.45	1709.26	1270.45	1583.32	1965.69
A23.4.4	180 x 100 mm size P type												
A23.4.4.1	With F.P.S. Bricks class designation 75	Each	1263.12	1065.37	1263.12	1421.82	1658.62	1605.72	1282.65	1711.52	1282.65	1594.19	1962.18
A23.4.4.2	With Sewer bricks conforming to IS . 4885	Each	1352.65	1138.74	1352.65	1524.56	1780.46	1723.16	1373.64	1837.76	1373.64	1705.76	2108.98
A23.4.5	180 x 150 mm size P type												
A23.4.5.1	With F.P.S. Bricks class designation 75	Each	1329.01	1126.38	1329.01	1491.37	1734.27	1680.15	1349.15	1788.39	1349.15	1673.33	2045.15
A23.4.5.2	With Sewer bricks conforming to IS . 4885	Each	1418.54	1199.75	1418.54	1594.11	1856.11	1797.60	1440.14	1914.63	1440.14	1784.89	2191.95

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.5	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps:												
A23.5.1	100 mm diameter	Metre	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
A23.5.2	150 mm diameter	Metre	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99
A23.5.3	200 mm diameter	Metre	21.08	21.08	21.08	21.08	21.08	21.08	21.08	21.08	21.08	21.08	21.08
A23.5.4	230 mm diameter	Metre	21.63	21.63	21.63	21.63	21.63	21.63	21.63	21.63	21.63	21.63	21.63
A23.5.5	250 mm diameter	Metre	22.17	22.17	22.17	22.17	22.17	22.17	22.17	22.17	22.17	22.17	22.17
A23.5.6	300 mm diameter	Metre	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26
A23.5.7	350 mm diameter	Metre	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
A23.5.8	400 mm diameter	Metre	29.54	29.54	29.54	29.54	29.54	29.54	29.54	29.54	29.54	29.54	29.54
A23.5.9	450 mm diameter	Metre	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63
A23.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete:												
A23.6.1	100 mm dia. R.C.C. pipe	Metre	255.40	238.34	255.40	268.28	289.50	285.21	257.48	293.80	257.48	300.81	315.15
A23.6.2	150 mm dia. R.C.C. pipe	Metre	292.75	272.64	292.75	307.96	332.98	327.91	295.21	338.05	295.21	344.97	363.23
A23.6.3	250 mm dia. R.C.C. pipe	Metre	396.40	367.67	396.40	418.53	453.87	446.50	399.70	461.25	399.70	462.99	497.36
A23.6.4	300 mm dia. R.C.C. pipe	Metre	508.89	477.59	508.89	532.58	571.47	563.57	512.69	579.37	512.69	589.40	618.56
A23.6.5	450 mm dia. R.C.C. pipe	Metre	598.66	554.96	598.66	631.92	686.06	674.97	603.88	697.15	603.88	707.58	751.94
A23.6.6	500 mm dia. R.C.C. pipe	Metre	703.14	651.26	703.14	742.58	806.90	793.75	793.75	709.36	820.04	833.38	885.07
A23.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement 2 coarse sand : 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design:												
A23.7.1	Inside size 90x80cm and 45cm deep including C.I. cover with frame (light duty) 455x610mm internal diamensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15 kg)												
A23.7.1.1	With F.P.S. bricks with class designation 75	Each	5665.89	4901.77	5665.89	6277.37	7194.11	6990.28	5742.20	7397.94	5742.20	6979.24	8365.90
A23.7.1.2	With Sewer bricks conforming to IS : 4885	Each	6048.58	5252.33	6048.58	6686.34	7641.05	7428.48	6127.81	7853.64	6127.81	7405.76	8862.48

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.7.2	Inside size 90x80 cm and 60 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)												
A23.7.2.1	With F.P.S. bricks with class designation 75	Each	6169.56	5355.26	6169.56	6821.50	7798.13	7580.82	6250.72	8015.45	6250.72	7562.91	9047.08
A23.7.2.2	With Sewer bricks conforming to IS : 4885	Each	6876.39	5962.89	6876.39	7609.50	8703.36	8459.01	6966.57	8947.74	6966.57	8405.03	10105.61
A23.7.3	Inside size 120x90cm and 90cm deep including C.I. cover with frame (medium duty) 500mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg)												
A23.7.3.1	With F.P.S. bricks with class designation 75	Each	11598.99	10353.65	11598.99	12577.36	14089.66	13763.57	11732.50	14415.77	11732.50	14100.56	15987.25
A23.7.3.2	With Sewer bricks conforming to IS : 4885	Each	12045.17	10683.73	12045.17	13118.53	14768.03	14410.31	12189.23	15125.82	12189.23	14705.08	16845.06
A23.7.4	Inside size 120x90cm and 90cm deep including C.I. cover with frame (heavy duty) 560mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)												
A23.7.4.1	With F.P.S. bricks with class designation 75	Each	15760.25	14287.02	15760.25	16900.21	18706.69	18326.69	15926.87	19086.68	15926.87	19064.19	20939.90
A23.7.4.2	With Sewer bricks conforming to IS : 4885	Each	16141.74	14563.54	16141.74	17367.59	19298.12	18889.53	16317.91	19706.74	16317.91	19588.86	21693.57
A23.8	Extra for depth for manholes												
A23.8.1	Size 90x80cm												
A23.8.1.1	With F.P.S. bricks class designation 75	Metre	3573.99	2589.35	3573.99	4379.62	5543.22	5274.71	3663.50	5811.77	3663.50	4916.64	7065.00
A23.8.1.2	With Sewer bricks conforming to IS : 4885	Metre	4837.28	3508.50	4837.28	5924.47	7494.75	7132.50	4958.07	7857.17	4958.07	6649.30	9548.40
A23.8.2	Size 120x90cm												
A23.8.2.1	With F.P.S. bricks class designation 75	Metre	4722.35	3415.95	4722.35	5791.24	7335.09	6978.82	4841.11	7691.39	4841.11	6503.75	9354.16
A23.8.2.2	With Sewer bricks conforming to IS : 4885	Metre	5287.34	3843.28	5287.34	6468.86	8175.37	7781.70	5418.61	8569.23	5418.61	7256.57	10407.19

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.9	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement moratr 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand 6 graded stone aggregate 40mm nominal size), and making necessary channel in cment concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design												
A23.9.1	0.91 m deep with S.FR.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately)												
A23.9.1.1	With F.P.S. bricks class designation 75	Each	6622.16	5514.48	6622.16	7520.74	6430.83	8537.97	6726.73	9137.064	6726.73	8285.29	10544.32
A23.9.1.2	With Sewer bricks conforming to IS : 4885	Each	7735.64	6313.04	7735.64	8891.88	8174.14	10195.45	7868.84	10966.28	7868.84	9828.25	12774.36
A23.9.2	1.67 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement :2 coarse sand:4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separatejy)												
A23.9.2.1	With F.P.S. bricks class designation 75	Each	9582.12	7734.67	9582.12	11182.53	11672.45	12777.43	9756.68	13776.37	9756.68	12364.30	16123.29
A23.9.2.2	With Sewer bricks conforming to IS : 4885	Each	11040.48	8678.87	11040.48	13061.54	14961.29	15123.81	11261.77	16403.22	11261.77	14523.72	19404.54
A23.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) with beyond 0.91m to 1.67m												
A23.10.1	With F.P.S. bricks class designation 75	Metre	3478.36	3214.35	3478.36	3991.16	4006.39	3940.09	3510.93	4072.68	3510.93	4177.43	4402.99
A23.10.2	With Sewer bricks conforming to IS : 4885	Metre	4259.39	3181.81	4259.39	5195.19	6414.43	6121.68	4358.88	6707.29	4358.88	5790.72	8077.72

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.11	Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement :3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design												
A23.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately)												
A23.11.1.1	With F.P.S. bricks class designation 75	Each	11568.70	10186.81	11568.70	13154.53	10321.33	13964.35	11707.46	14700.59	11707.46	13973.10	16450.60
A23.11.1.2	With Sewer bricks conforming to IS : 4885	Each	12773.79	11238.13	12773.79	14530.43	11031.75	15435.91	12927.83	16254.31	12927.83	15439.29	18199.17
A23.11.2	2.29 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately)												
A23.11.2.1	With F.P.S. bricks class designation 75	Each	13666.21	12045.09	13666.21	15552.74	11854.41	16477.09	13829.74	17339.79	13829.74	16620.95	19392.26
A23.11.2.2	With Sewer bricks conforming to IS : 4885	Each	16318.70	14373.17	16318.70	18560.63	14594.16	19691.66	16514.32	20727.85	16514.32	19714.41	23191.47
A23.12	Extra depth for circular type manhole 1.22m internal dia(at bottom) beyond 1.68 m to 2.29 m												
A23.12.1	With F.P.S. bricks class designation 75	Metre	4216.81	3166.75	4216.81	5150.09	6316.82	6031.85	4314.38	6601.79	4314.38	5733.35	7937
A23.12.2	With Sewer bricks conforming to IS : 4885	Metre	5764.83	4291.66	5764.83	7044.29	8711.04	8310.82	5900.86	9111.41	5900.86	7858.46	10984.97
A23.13	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1cement : 3coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design.												
A23.13.1	With 20x20 mm square bar	Each	185.04	175.33	185.04	192.63	204.45	201.91	186.09	206.98	186.09	205.12	219.21
A23.13.2	With 20 mm diameter round bar	Each	154.13	144.45	154.13	161.70	173.47	170.95	155.18	176.00	155.18	174.13	188.20

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.14	Providing orange colour safety foot rest of minimum 6mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263mm and width as 165mm with minimum 112mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible. even after fixing. including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size) complete as per design.	Each	302.17	281.02	302.17	318.75	344.48	338.95	304.46	350.00	304.46	353.96	376.68
A23.15	Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10cm cement concrete blocks 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm												
A23.15.1	With 20x20 mm square bar.	Each	219.20	209.50	226.80	226.80	238.61	236.08	220.26	241.14	220.26	239.29	253.38
A23.15.2	With 20 mm diameter round bar.	Each	200.49	190.82	200.49	208.06	219.84	217.32	201.55	222.37	201.55	220.50	234.56
A23.16	Supplying and fixing C.I. cover without frame for manholes:												
A23.16.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	1149.41	1066.44	1149.41	1211.64	1315.36	1294.62	1159.79	1336.10	1159.79	1374.58	1439.82
A23.16.2	500 mm diameter C. I. cover (medium duty) the weight of the cover to be not less than 58 kg.	Each	2928.44	2713.69	2928.44	3089.51	3357.95	3304.26	2955.29	3411.64	2955.29	3511.23	3680.08
A23.16.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg.	Each	4905.14	4543.97	4905.14	5176.02	5627.49	5537.20	4950.29	5717.79	4950.29	5885.28	6169.25
A23.17	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality.												
A23.17.1	LD- 7.5												
A23.17.1.1	Rectangular shape 600x450mm internal dimensions	Each	1441.11	1310.24	1441.11	1542.58	1702.84	1669.02	1455.81	1736.67	1455.81	1730.45	1901.36
A23.17.1.2	Square shape 450mm internal dimensions	Each	1162.04	1057.79	1162.04	1242.73	1370.55	1343.65	1173.82	1397.45	1173.82	1395.36	1528.60
A23.17.1.3	Circular shape 450mm internal diameter	Each	1060.76	964.01	1060.76	1135.83	1254.26	1229.24	1071.60	1279.28	1071.60	1273.72	1401.06
A23.17.2	MD-10												
A23.17.2.1	Square shape 450mm internal dimension	Each	1346.82	1222.82	1346.82	1443.16	1594.82	1562.71	1360.65	1626.94	1360.65	1617.20	1783.05
A23.17.2.2	Circular shape 500mm internal diameter	Each	1263.32	1151.57	1263.32	1349.64	1486.83	1458.06	1276.04	1515.61	1276.04	1517.01	1656.14
A23.17.3	H D-20												
A23.17.3.1	Circular shape 560mm internal diamete	Each	1708.96	1564.19	1708.96	1820.04	1998.49	1961.47	1725.80	2035.52	1725.80	2052.23	2217.31
A23.17.4	EHD - 35												
A23.17.4.1	Circular shape 560mm internal diameter	Each	1871.01	1714.24	1871.01	1991.09	2184.55	2144.52	1889.35	2224.58	1889.35	2246.85	2421.37

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.18	Supplying and fixing C.I. cover 300x300mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5kg.	Each	285.47	264.86	285.47	300.92	326.67	321.52	288.04	331.82	288.04	341.37	357.57
A23.19	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete:												
A23.19.1	For pipes 100 to 230 mm diameter	Each	226.33	208.02	226.33	247.29	262.95	258.07	228.17	267.83	228.17	258.13	291.02
A23.19.2	For pipes 250 to 300 mm diameter	Each	266.92	248.61	266.92	287.88	303.54	298.67	268.76	308.42	268.76	298.72	331.61
A23.19.3	For pipes 350 to 450 mm diameter	Each	398.27	363.68	398.27	436.15	467.47	458.21	401.69	476.72	401.69	456.38	520.57
A23.20	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead												
A23.20.1	Rectangular manhole 90x80 cm and 45 cm deep	Each	507.39	507.39	507.39	507.39	507.39	507.39	507.39	507.39	507.39	507.39	507.39
A23.20.2	Rectangular manhole 120x90 cm and 90 cm deep	Each	869.53	869.53	869.53	869.53	869.53	869.53	869.53	869.53	869.53	869.53	869.53
A23.20.3	Rectangular arch type manhole 140x90cm and 2.45m deep	Each	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31	1556.31
A23.20.4	Circular manhole 122 cm diameter and 1.68 m deep	Each	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34	1193.34
A23.21	Extra for depth of manholes dismantled:												
A23.21.1	Rectangular manhole 90x80 cm and 45 cm deep	Metre	428.05	428.05	428.05	428.05	428.05	428.05	428.05	428.05	428.05	428.05	428.05
A23.21.2	Rectangular manhole 120x90 cm and 90 cm deep	Metre	511.80	511.80	511.80	511.80	511.80	511.80	511.80	511.80	511.80	511.80	511.80
A23.21.3	Rectangular arch type manhole 140x90 cm and 2.45m deep (upto 4.25 m depth)	Metre	417.86	417.86	417.86	417.86	417.86	417.86	417.86	417.86	417.86	417.86	417.86
A23.21.4	Circular manhole 122 cm diameter and 1.68 m deep (upto 2.29 m depth)	Metre	694.21	694.21	694.21	694.21	694.21	694.21	694.21	694.21	694.21	694.21	694.21
A23.22	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately).												
A23.22.1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LID - 2.5	Each	905.99	798.08	905.99	993.79	1121.80	1092.53	916.04	1151.07	916.04	1062.64	1288.24
A23.22.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	Each	1455.17	1290.11	1455.17	1589.29	1785.31	1740.61	1470.65	1830.02	1470.65	1698.87	2039.79
A23.22.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20.	Each	1358.23	1204.03	1358.23	1483.51	1666.63	1624.87	1372.69	1708.39	1372.69	1586.05	1904.35
A23.22.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35.	Each	167.12	146.56	167.12	183.95	208.25	202.64	168.99	213.86	168.99	195.16	240.03

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.23	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks of class designation 75 in cement mortar 1:5 (1 cement :5 fine sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete												
A23.23.1	With F.P.S. bricks .	Each	5982.72	4972.03	5982.72	6800.54	8004.10	7731.52	6079.18	8276.70	6079.18	7541.86	9560.02
A23.24	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with 75 class designation bricks in cement mortar 1:5 (1 cement : 5 fine sand) C.I. cover with frame (light duty) 455 x 610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:												
A23.24.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line.												
A23.24.1.1	With F.P.S. bricks	Each	3766.23	3229.17	3766.23	4195.40	4840.35	4697.30	3820.18	4983.41	3820.18	4701.58	5663.54
A23.24.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets.												
A23.24.2.1	With F.P.S. bricks	Each	4236.84	3660.52	4236.84	4762.97	5389.47	5236.47	4295.49	5542.47	4295.49	5270.82	6271.81
A23.24.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets.												
A23.24.3.1	With F.P.S. bricks	Each	4965.19	4353.43	4965.19	5680.44	6168.28	6026.37	5027.56	6294.03	5027.56	6066.80	7125.16
A23.25	Extra for depth beyond 45 cm of brick masonry chamber.												
A23.25.1	For 455x610 mm size.												
A23.25.1.1	With F.P.S. bricks.	Metre	2748.49	1982.35	2748.49	3375.34	4227.14	4071.79	2818.13	4340.11	2818.13	3793.19	5464.81
A23.25.2	For 500x700 mm size.												
A23.25.2.1	With F.P.S. bricks.	Metre	3092.76	2230.71	3092.76	3798.07	4756.42	4581.71	3171.12	4883.38	3171.12	4268.23	6149.10
A23.25.3	For 600x850 mm size.												
A23.25.3.1	With F.P.S. bricks.	Metre	3480.18	2513.81	3480.18	4270.84	5339.88	5149.31	3568.02	5472.76	3568.02	4797.89	6906.37
A23.26	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.												
A23.26.1	With F.P.S. bricks	Each	12440.50	11577.69	12440.50	13114.32	14166.13	13941.54	12535.00	14390.73	12535.00	14253.24	15478.14

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.27	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	1416.74	1351.75	1416.74	1465.49	1546.73	1530.48	1424.87	1562.98	1424.87	1593.12	1644.22
A23.28	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.												
A23.28.1	100 mm dia.	Each	258.58	231.97	258.58	280.09	311.81	304.64	261.14	318.98	261.14	300.20	352.76
A23.28.2	150 mm dia.	Each	436.41	423.95	436.41	446.26	461.31	458.02	437.70	464.59	437.70	459.91	480.33
A23.29	Cutting holes upto 30x30cm in walls including making good the same.												
A23.29.1	With F.P.S. bricks.	Each	113.92	107.14	113.92	119.04	127.47	125.77	114.75	129.18	114.75	131.58	137.66
A23.30	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 including finishing complete.	Each	112.13	110.60	112.13	113.39	115.20	114.78	112.27	115.62	112.27	114.23	117.57
A23.31	Making chases upto 7.5x7.5 cm in walls including making good after housing G.Lpipe etc.	Metre	52.96	49.54	52.96	55.75	59.79	58.86	53.27	60.72	53.27	57.62	65.07
A23.32	Making hole upto 20x20 cm and embedding pipes upto 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	Metre	89.84	75.33	89.84	101.71	118.86	114.90	91.16	122.81	91.16	109.62	141.28
A23.33	Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.												
A23.33.1	80 mm diameter C.I. pipe.	100 Metre	312.29	310.84	312.29	313.37	315.18	314.82	312.47	315.54	312.47	316.22	317.35
A23.33.2	100 mm diameter C.I. pipe.	100 Metre	365.72	353.06	365.72	375.22	391.05	387.88	367.30	394.22	367.30	400.09	410.05
A23.33.3	125 mm diameter C.I. pipe.	100 Metre	447.49	422.16	447.49	466.49	498.15	491.82	450.66	504.48	450.66	516.23	536.14
A23.33.4	150 mm diameter C.I. pipe.	100 Metre	561.82	536.49	561.82	580.82	612.48	606.15	564.99	618.82	564.99	630.56	650.48
A23.33.5	200 mm diameter C.I. pipe.	100 Metre	1050.37	1005.14	1050.37	1084.30	1140.84	1129.53	1056.03	1152.14	1056.03	1173.12	1208.68
A23.33.6	250 mm diameter C.I. pipe.	100 Metre	1125.76	1080.53	1125.76	1159.68	1216.22	1204.91	1131.41	1227.53	1131.41	1248.51	1284.07
A23.33.7	300 mm diameter C.I. pipe.	100 Metre	1238.84	1193.61	1238.84	1272.76	1329.30	1317.99	1244.49	1340.61	1244.49	1361.58	1397.15

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuengsang	Mon	Longleng	Kiphire
A23.34	Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory.												
A23.34.1	80 mm diameter C.I. pipe.	Metre	99.35	93.87	99.35	103.46	110.31	108.94	100.03	111.68	100.03	114.22	118.53
A23.34.2	100 mm diameter C.I. pipe.	Metre	124.72	119.24	124.72	128.83	135.68	134.31	125.40	137.05	125.40	139.59	143.90
A23.34.3	125 mm diameter C.I. pipe.	Metre	148.67	139.54	148.67	155.52	166.94	164.65	149.81	169.22	149.81	173.45	180.64
A23.34.4	150 mm diameter C.I. pipe.	Metre	182.92	173.79	182.92	189.77	201.19	198.90	184.06	203.47	184.06	207.70	214.89
A23.34.5	200 mm diameter C.I. pipe.	Metre	280.44	267.66	280.44	290.03	306.02	302.82	282.04	309.21	282.04	315.14	325.19
A23.34.6	250 mm diameter C.I. pipe	Metre	324.13	309.52	324.13	335.09	353.36	349.70	325.96	357.01	325.96	363.79	375.28
A23.34.7	300 mm diameter C.I. pipe.	Metre	375.43	358.99	375.43	387.76	408.31	404.20	377.48	412.42	377.48	420.04	432.97
A23.35	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes. breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre.												
A23.35.1	80 mm diameter C.I. pipe.	Metre	100.79	98.69	100.79	102.37	104.99	104.47	101.06	105.52	101.06	106.49	108.14
A23.35.2	100 mm diameter C.I. pipe.	Metre	103.93	101.60	103.93	105.68	108.60	108.02	104.23	109.18	104.23	110.26	112.10
A23.35.3	125 mm diameter C.I. pipe.	Metre	104.64	102.15	104.64	106.50	109.61	108.99	104.95	110.23	104.95	111.39	113.34
A23.35.4	150 mm diameter C.I. pipe.	Metre	106.73	104.09	106.73	108.71	112.02	111.36	107.06	112.68	107.06	113.90	115.98
A23.35.5	200 mm diameter C.I. pipe	Metre	115.82	112.68	115.82	118.17	122.10	121.31	116.21	122.88	116.21	124.34	126.81
A23.35.6	250 mm diameter C.I. pipe.	Metre	126.30	122.59	126.30	129.08	133.72	132.79	126.77	134.65	126.77	136.37	139.28
A23.35.7	300 mm diameter C.I. pipe.	Metre	133.65	129.55	133.65	136.72	141.84	140.82	134.16	142.87	134.16	144.77	147.99
A23.36	Labour for cutting C.I. pipe with steel saw.												
A23.36.1	80 mm diameter C.I. pipe.	Each Cut	35.88	35.88	35.88	35.88	35.88	35.88	35.88	35.88	35.88	35.88	35.88
A23.36.2	100 mm diameter C.I. pipe.	Each Cut	47.84	47.84	47.84	47.84	47.84	47.84	47.84	47.84	47.84	47.84	47.84
A23.36.3	125 mm diameter C.I. pipe.	Each Cut	66.45	66.45	66.45	66.45	66.45	66.45	66.45	66.45	66.45	66.45	66.45
A23.36.4	150 mm diameter C.I. pipe.	Each Cut	89.70	89.70	89.70	89.70	89.70	89.70	89.70	89.70	89.70	89.70	89.70
A23.36.5	200 mm diameter C.I. pipe.	Each Cut	119.07	119.07	119.07	119.07	119.07	119.07	119.07	119.07	119.07	119.07	119.07
A23.36.6	250 mm diameter C.I. pipe.	Each Cut	147.78	147.78	147.78	147.78	147.78	147.78	147.78	147.78	147.78	147.78	147.78
A23.36.7	300 mm diameter C.I. pipe.	Each Cut	177.41	177.41	177.41	177.41	177.41	177.41	177.41	177.41	177.41	177.41	177.41
A23.37	Dry stone pitching 22.5cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20cm including preparing the bedding surface etc. all complete.	Sqm	148.56	148.56	148.56	148.56	148.56	148.56	148.56	148.56	148.56	148.56	148.56
A23.38	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with.												
A23.38.1	Moorum	Sqm	31.43	29.31	31.43	33.03	35.69	35.16	31.70	36.22	31.70	37.21	38.88
	Stone aggregate 20 mm nominal size.		51.97	48.93	51.97	54.26	58.06	57.30	52.35	58.82	52.35	60.23	62.63
	Stone aggregate 40 mm nominal size.		48.11	45.06	48.11	50.39	54.20	53.43	48.49	54.96	48.49	56.37	58.76

B. ROADS & BRIDGES

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 1.0 CARRIAGE OF MATERIALS													
B 1.1	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)	cum	155.00	149.00	155.00	158.00	164.00	164.00	155.00	167.00	161.00	167.00	170.00
B 1.2	Loading and Unloading of Boulders by Manual Means	cum	271.00	263.00	271.00	263.00	271.00	263.00	271.00	263.00	271.00	263.00	271.00
B 1.3	Loading and Unloading of Cement or Steel by Manual Means and stacking.	tonne	354.00	342.00	354.00	342.00	354.00	342.00	354.00	342.00	354.00	342.00	354.00
B1.4	Cost of Haulage Excluding Loading and Unloading												
B1.4.1	Surfaced Road	tonnekm	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
B1.4.2	Unsurfaced Gravelled Road	tonnekm	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60
B1.4.3	Katcha Track and Track in river bed / nallah bed and choe bed.	tonnekm	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30	27.30
B 1.5	Hand Broken Stone Aggregates 63 mm nominal size (Supply of quarried stone, hand breaking into coarse aggregate 63 mm nominal size (passing 80 mm and retained on 50 mm sieve) and stacking as directed)	cum	1269.00	1218.00	1269.00	1269.00	1269.00	1317.00	1269.00	1269.00	1262.00	1269.00	1317.00
B 1.6	Crushing of stone aggregates 13.2 mm nominal size. (Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 tonnes per hour capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates of 13 mm nominal size.)	cum	1352.00	1284.00	1352.00	1352.00	1352.00	1397.00	1352.00	1352.00	1331.00	1352.00	1397.00
B 1.7	Crushing of stone aggregates 20 mm nominal size (Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 tonnes per hour capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates of 20 mm nominal size.)	cum	1545.00	1516.00	1545.00	1545.00	1545.00	1650.00	1545.00	1545.00	1372.00	1545.00	1650.00
B 1.8	Crushing of stone aggregates 40 mm nominal size (Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 tonnes per hour capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates of 40 mm nominal size.)	cum	1563.00	1536.00	1563.00	1563.00	1563.00	1697.00	1563.00	1563.00	1365.00	1563.00	1697.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 2.0 SITE CLEARANCE													
B 2.1	Cutting of Trees, including Cutting of Trunks, Branches and Removal (Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit.)												
B 2.1.1	Girth from 300 mm to 600 mm	each	232.00	191.00	232.00	198.00	238.00	202.00	232.00	204.00	236.00	204.00	243.00
B 2.1.2	Girth from 600 mm to 900 mm	each	416.00	348.00	416.00	368.00	435.00	381.00	416.00	387.00	429.00	387.00	448.00
B 2.1.3	Girth from 900 mm to 1800 mm	each	806.00	667.00	806.00	694.00	832.00	711.00	806.00	720.00	824.00	720.00	849.00
B 2.1.4	Girth above 1800 mm	each	1526.00	1258.00	1526.00	1297.00	1565.00	1323.00	1526.00	1336.00	1553.00	1336.00	1591.00
B 2.2	Clearing Grass and Removal of Rubbish	hectare	15851.00	12826.00	15851.00	12826.00	15851.00	12826.00	15851.00	12826.00	15851.00	12826.00	15851.00
B 2.3	Clearing and Grubbing Road Land .(Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.)												
B 2.3.1	By Manual Means:-												
B 2.3.1.1	In area of light jungle	hectare	47983.00	38864.00	47983.00	38930.00	48048.00	38973.00	47983.00	38995.00	48027.00	38995.00	48091.00
B 2.3.1.2	In area of thorny jungle	hectare	64265.00	52076.00	64265.00	52207.00	64394.00	52294.00	64265.00	52338.00	64353.00	52338.00	64479.00
B 2.3.2	By Mechanical Means												
B 2.3.2.1	In area of light jungle	hectare	45856.00	41015.00	45856.00	47814.00	52534.00	52292.00	45856.00	54612.00	50415.00	54612.00	56973.00
B 2.3.2.2	In area of thorny jungle	hectare	55537.00	49642.00	55537.00	57820.00	63570.00	63207.00	55537.00	65997.00	61021.00	65997.00	68910.00
B 2.4	Dismantling of Structures (Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres)												
B 2.4.1	Lime /Cement Concrete												
B 2.4.1.1	By Manual Means												
B2.4.1.1.1	Lime Concrete, cement concrete grade M-10 and below	cum	347.00	289.00	347.00	303.00	361.00	312.00	347.00	317.00	356.00	317.00	370.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B2.4.1.1.2	Cement Concrete Grade M-15 & M-20	cum	410.00	340.00	410.00	354.00	424.00	363.00	410.00	368.00	419.00	368.00	433.00
B2.4.1.1.3	Prestressed / Reinforced cement concrete grade M-20 & above	cum	1051.00	872.00	1051.00	886.00	1065.00	896.00	1051.00	901.00	1061.00	901.00	1074.00
B 2.4.1.2	By Mechanical Means for items No. 202(b) & (c)												
B 2.4.1.2.1	Cement Concrete Grade M-15 & M-20	cum	432.00	377.00	432.00	423.00	478.00	454.00	432.00	470.00	464.00	470.00	509.00
B 2.4.1.2.2	Prestressed / Reinforced cement concrete grade M-20 & above	cum	713.00	626.00	713.00	689.00	774.00	730.00	713.00	752.00	755.00	752.00	815.00
B 2.4.2	Dismantling Brick / Tile work												
B 2.4.2.1	In lime mortar	cum	220.00	186.00	220.00	200.00	234.00	209.00	220.00	214.00	229.00	214.00	243.00
B 2.4.2.2	In cement mortar	cum	283.00	237.00	283.00	251.00	297.00	261.00	283.00	266.00	293.00	266.00	306.00
B 2.4.2.3	In mud mortar	cum	194.00	165.00	194.00	180.00	208.00	189.00	194.00	194.00	204.00	194.00	218.00
B 2.4.2.4	Dry brick pitching or brick soling	cum	182.00	155.00	182.00	169.00	196.00	179.00	182.00	184.00	191.00	184.00	205.00
B 2.4.3	Dismantling Stone Masonry												
B 2.4.3.1	Rubble stone masonry in lime mortar	cum	245.00	207.00	245.00	221.00	259.00	230.00	245.00	235.00	255.00	235.00	268.00
B 2.4.3.2	Rubble stone masonry in cement mortar.	cum	283.00	237.00	283.00	251.00	297.00	261.00	283.00	266.00	293.00	266.00	306.00
B 2.4.3.3	Rubble Stone Masonry in mud mortar.	cum	220.00	186.00	220.00	200.00	234.00	209.00	220.00	214.00	229.00	214.00	243.00
B 2.4.3.4	Dry rubble masonry	cum	207.00	176.00	207.00	190.00	221.00	199.00	207.00	204.00	217.00	204.00	230.00
B 2.4.3.5	Dismantling stone pitching/ dry stone spalls.	cum	194.00	165.00	194.00	180.00	208.00	189.00	194.00	194.00	204.00	194.00	218.00
B 2.4.3.6	Dismantling boulders laid in wire crates including opening of crates and stacking dismantled materials.	cum	220.00	186.00	220.00	200.00	234.00	209.00	220.00	214.00	229.00	214.00	243.00
B 2.4.4	Wood work wrought framed and fixed in frames of trusses upto a height of 5 m above plinth level	cum	498.00	440.00	498.00	454.00	512.00	463.00	498.00	468.00	507.00	468.00	521.00
B 2.4.5	Steel work in all types of sections upto a height of 5 m above plinth level excluding cutting of rivet.												
B 2.4.5.1	Including dismembering	tonne	1248.00	1085.00	1248.00	1096.00	1259.00	1104.00	1248.00	1107.00	1255.00	1107.00	1266.00
B 2.4.5.2	Excluding dismembering.	tonne	949.00	817.00	949.00	828.00	960.00	836.00	949.00	840.00	956.00	840.00	967.00
B 2.4.5.3	Extra over item No(V) A and(V) B for cutting rivets.	tonne	9.00	8.00	9.00	8.00	9.00	8.00	9.00	8.00	9.00	8.00	9.00
B 2.4.6	Scraping of bricks dismantled from brick work including stacking												
B 2.4.6.1	In lime/Cement mortar	1000 nos	1110.00	898.00	1110.00	898.00	1110.00	898.00	1110.00	898.00	1110.00	898.00	1110.00
B 2.4.6.2	In mud mortar	1000 nos	396.00	321.00	396.00	321.00	396.00	321.00	396.00	321.00	396.00	321.00	396.00
B 2.4.7	Scraping of Stone from dismantled stone masonry												
B 2.4.7.1	In cement and lime mortar	cum	445.00	361.00	445.00	361.00	445.00	361.00	445.00	361.00	445.00	361.00	445.00
B 2.4.7.2	In Mud mortar	cum	94.00	76.00	94.00	76.00	94.00	76.00	94.00	76.00	94.00	76.00	94.00
B 2.4.8	Scarping plaster in lime or cement mortar from brick/ stone masonry	sqm	14.00	11.00	14.00	12.00	14.00	12.00	14.00	12.00	14.00	12.00	14.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 2.4.9	Removing all type of hume pipes and stacking within a lead of 1000 metres including earthwork and dismantling of masonry works.												
B 2.4.9.1	Up to 600 mm dia	metre	165.00	133.00	165.00	133.00	165.00	133.00	165.00	133.00	165.00	133.00	165.00
B 2.4.9.2	Above 600 mm to 900 mm dia	metre	223.00	180.00	223.00	180.00	223.00	180.00	223.00	180.00	223.00	180.00	223.00
B 2.4.9.3	Above 900 mm	metre	381.00	309.00	381.00	309.00	381.00	309.00	381.00	309.00	381.00	309.00	381.00
B 2.5	Dismantling of Flexible Pavements (Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately)												
B 2.5.1	By Manual Means												
B 2.5.1.1	Bituminous courses	cum	639.00	531.00	639.00	556.00	664.00	573.00	639.00	581.00	656.00	581.00	680.00
B 2.5.1.2	Granular courses	cum	459.00	384.00	459.00	406.00	480.00	420.00	459.00	427.00	474.00	427.00	494.00
B 2.5.2	By Mechanical Means												
B 2.5.2.1	Bituminous course	cum	266.00	230.00	266.00	256.00	291.00	273.00	266.00	282.00	283.00	282.00	309.00
B 2.6	Dismantling of Cement Concrete Pavement (Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately)	cum	1255.00	1097.00	1255.00	1240.00	1396.00	1335.00	1255.00	1384.00	1351.00	1384.00	1489.00
B 2.7	Dismantling Guard Rails (Dismantling guard rails by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metres, stacking serviceable materials and unserviceable materials separately.)	metre	69.00	58.00	69.00	61.00	72.00	63.00	69.00	64.00	71.00	64.00	74.00
B 2.8	Dismantling Kerb Stone (Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metre)	metre	14.00	12.00	14.00	13.00	15.00	14.00	14.00	14.00	14.00	14.00	16.00
B 2.9	Dismantling Kerb Stone channel (Dismantling kerb stone channel by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metre)	metre	20.00	18.00	20.00	20.00	22.00	21.00	20.00	22.00	22.00	22.00	23.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 2.10	Dismantling Kilometre Stone (Dismantling of kilometre stone including cutting of earth, foundation and disposal of dismantled material with all lifts and lead upto 1000 m and back filling of pit.)												
B 2.10.1	5th KM stone	each	339.00	287.00	339.00	296.00	348.00	303.00	339.00	306.00	345.00	306.00	355.00
B 2.10.2	Ordinary KM Stone	each	202.00	167.00	202.00	173.00	208.00	178.00	202.00	180.00	206.00	180.00	212.00
B 2.10.3	Hectometre Stone	each	40.00	33.00	40.00	35.00	42.00	36.00	40.00	36.00	41.00	36.00	42.00
B 2.11	Dismantling of Fencing (Dismantling of barbed wire fencing/ wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and up to a lead of 1000 metres, stacking serviceable material and unserviceable material separately.)	metre	43.00	36.00	43.00	37.00	43.00	37.00	43.00	37.00	43.00	37.00	43.00
B 2.12	Dismantling of CI Water Pipe Line (Dismantling of CI water pipe line 600 mm dia including disposal with all lifts and lead upto 1000 metres and stacking of serviceable material and unserviceable material separately under supervision of concerned department)	metre	143.00	127.00	143.00	133.00	148.00	136.00	143.00	138.00	147.00	138.00	152.00
B 2.13	Removal of Cement Concrete Pipe of Sewer Gutter (Removal of cement concrete pipe of sewer gutter 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 metres and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.)	metre	236.00	219.00	236.00	221.00	237.00	222.00	236.00	223.00	237.00	223.00	239.00
B 2.14	Removal of Telephone / Electric Poles and Lines (Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 metres and stacking the serviceable and unserviceable material separately)	each	151.00	128.00	151.00	132.00	154.00	134.00	151.00	135.00	153.00	135.00	156.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 3.0 EARTH WORK, EROSION CONTROL AND DRAINAGE												
B 3.1	Excavation in Soil by Manual Means. (Excavation for roadway in soil using manual means including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres.)	cum	240.00	217.00	240.00	217.00	240.00	217.00	240.00	217.00	240.00	217.00	240.00
B 3.2	Excavation in ordinary rock by manual means (Excavation in ordinary rock using manual means including loading in a truck and carrying of excavated material to embankment site with in all lifts and leads upto 1000 metres)	cum	306.00	271.00	306.00	271.00	306.00	271.00	306.00	271.00	306.00	271.00	306.00
B 3.3	Excavation in Soil with Dozer with lead upto 100 metres (Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 metres (average lead 50 metres), including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections.)	cum	151.00	135.00	151.00	157.00	173.00	172.00	151.00	180.00	166.00	180.00	187.00
B 3.4	Excavation in Ordinary Rock with Dozer with lead upto 100 metres (Excavation for roadway in ordinary rock by deploying a dozer, 80 HP including cutting and pushing the cut earth to site of embankment upto a distance of 100 metres (average lead 50 metres), trimming bottom and side slopes in accordance with the requirements of lines, grades and cross sections.)	cum	254.00	227.00	254.00	265.00	291.00	289.00	254.00	302.00	279.00	302.00	315.00
B 3.5	Excavation in Hard Rock (requiring blasting) with disposal upto 1000 metres (Excavation for roadway in hard rock (requiring blasting) by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and disposal of cut road with in all lifts and leads upto 1000 metres)	cum	382.00	358.00	382.00	391.00	414.00	413.00	382.00	424.00	403.00	424.00	436.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.6	Excavation in Soil using Hydraulic Excavator CK 90 and Tipplers with disposal upto 1000 metres. (Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m)	cum	100.00	97.00	100.00	101.00	104.00	104.00	100.00	105.00	103.00	105.00	107.00
B 3.7	Excavation in Ordinary Rock using Hydraulic Excavator CK-90 and Tipplers with disposal upto 1000 metres. (Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tipplers, transporting to embankment site within all lifts and lead upto 1000 m, trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections.)	cum	116.00	112.00	116.00	118.00	122.00	121.00	116.00	123.00	120.00	123.00	126.00
B3.8	Excavation in Hard Rock (blasting prohibited) (Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tipplers and disposal within all lifts and lead upto 1000 metres, trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections.)												
B 3.8.1	Mechanised	cum	550.00	507.00	550.00	546.00	589.00	572.00	550.00	585.00	576.00	585.00	614.00
B 3.8.2	Manual Method	cum	1111.00	1050.00	1111.00	1050.00	1111.00	1050.00	1111.00	1050.00	1111.00	1050.00	1111.00
B 3.9	Excavation in Hard Rock (controlled blasting) with disposal upto 1000 metres (Excavation for roadway in hard rock with controlled blasting by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and disposal of cut road with in all lifts and leads upto 1000 metres)	cum	439.00	408.00	439.00	453.00	483.00	482.00	439.00	497.00	468.00	497.00	512.00
B 3.10	Excavation in Marshy Soil (Excavation for roadway in marshy soil with hydraulic excavator 0.9 cum bucket capacity including cutting and loading in tipplers and disposal with in all lifts and lead upto 1000 metres, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections.)	cum	107.00	104.00	107.00	108.00	112.00	112.00	107.00	113.00	110.00	113.00	115.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.11	Removal of Unserviceable Soil with Disposal upto 1000 metres (Removal of unserviceable soil including excavation, loading and disposal upto 1000 metres lead but excluding replacement by suitable soil which shall be paid separately as per clause 305.)	cum	102.00	99.00	102.00	103.00	106.00	105.00	102.00	107.00	104.00	107.00	108.00
B 3.12	Pre-splitting of Rock Excavation Slopes (Carrying out excavation in hard rock to achieve a specified slope of the rock face by controlled use of explosives and blasting accessories in properly aligned and spaced drill holes, collection of the excavated rock by a 80 HP dozer, loading in tipper by a front end loader and disposing of the material with all lifts and lead upto 1000 m, all as specified in clause No. 303)	sqm	167.00	153.00	167.00	170.00	184.00	181.00	167.00	187.00	178.00	187.00	195.00
B 3.13	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work.)												
B 3.13.1	Ordinary soil												
B 3.13.1.1	Manual Means (Depth upto 3 m)	cum	254.00	205.00	254.00	205.00	254.00	205.00	254.00	205.00	254.00	205.00	254.00
B 3.13.1.2	Mechanical Means (Depth upto 3 m)	cum	39.00	35.00	39.00	39.00	44.00	42.00	39.00	44.00	43.00	44.00	47.00
B 3.13.2	Ordinary rock (not requiring blasting)												
B 3.13.2.1	Manual Means (Depth upto 3 m)	cum	317.00	257.00	317.00	257.00	317.00	257.00	317.00	257.00	317.00	257.00	317.00
B 3.13.2.2	Mechanical Means	cum	52.00	46.00	52.00	52.00	58.00	57.00	52.00	59.00	56.00	59.00	62.00
B 3.13.3	Hard rock (requiring blasting)												
B 3.13.3.1	Manual Means	cum	620.00	542.00	620.00	550.00	628.00	555.00	620.00	558.00	625.00	558.00	633.00
B 3.13.4	Hard rock (blasting prohibited)												
B 3.13.4.1	Mechanical Means	cum	555.00	484.00	555.00	544.00	615.00	584.00	555.00	605.00	596.00	605.00	654.00
B 3.13.5	Marshy soil												
B 3.13.5.1	Manual means (upto 3 m depth)	cum	567.00	481.00	567.00	519.00	604.00	544.00	567.00	557.00	592.00	557.00	629.00
B 3.13.5.2	Mechanical Means	cum	298.00	269.00	298.00	294.00	322.00	310.00	298.00	319.00	315.00	319.00	338.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.14	Scarifying Existing Granular Surface to a Depth of 50 mm by Manual Means (Scarifying the existing granular road surface to a depth of 50 mm and disposal of scarified material within all lifts and leads upto 1000 metres.)	sqm	23.00	19.00	23.00	20.00	24.00	21.00	23.00	21.00	24.00	21.00	25.00
B 3.15	Scarifying existing bituminous surface to a depth of 50 mm by mechanical means (Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and lead upto 1000 metres.)	sqm	7.00	6.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
B 3.16	Embankment Construction with Material Obtained from Borrow Pits (Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	cum	621.00	580.00	621.00	600.00	643.00	614.00	621.00	621.00	636.00	621.00	658.00
B 3.17	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2)	cum	180.00	142.00	180.00	158.00	199.00	169.00	180.00	175.00	193.00	175.00	211.00
B 3.18	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	cum	690.00	645.00	690.00	670.00	717.00	687.00	690.00	696.00	708.00	696.00	735.00
B 3.19	Compacting Original Ground												
B 3.19.1	Compacting original ground supporting subgrade (Loosening of the ground upto a level of 500 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of table 300-2 for subgrade construction.)	cum	76.00	67.00	76.00	74.00	86.00	81.00	76.00	84.00	83.00	84.00	92.00
B 3.19.2	Compacting original ground supporting embankment	cum	45.00	39.00	45.00	41.00	50.00	45.00	45.00	46.00	48.00	46.00	53.00
B 3.20	Stripping and Storing Top Soil (Stripping, storing of top soil by road side at 15 m internal and re-application on embankment slopes, cut slopes and other areas in localities where the available embankment material is not conducive to plant growth)	cum	203.00	168.00	203.00	175.00	209.00	179.00	203.00	181.00	207.00	181.00	214.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.21	Stripping, storing and re-laying top soil from borrow areas in agriculture fields. (Stripping of top soil from borrow areas located in agriculture fields, storing at a suitable place, spreading and re-laying after taking the borrow earth to maintain fertility of the agricultural field, finishing it to the required levels and satisfaction of the farmer.)	cum	90.00	81.00	90.00	94.00	104.00	103.00	90.00	108.00	99.00	108.00	112.00
B 3.22	Turfing with Sodds (Furnishing and laying of the live sods of perennial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the engineer including preparation of ground, fetching of rods and watering)	sqm	70.00	51.00	70.00	56.00	75.00	59.00	70.00	60.00	73.00	60.00	78.00
B 3.23	Seeding and Mulching (Preparation of seed bed on previously laid top soil, furnishing and placing of seeds, fertilizer, mulching material, applying bituminous emulsion at the rate of 0.23 litres per sqm and laying and fixing jute netting, including watering for 3 months all as per clause 308)	sqm	242.00	185.00	242.00	204.00	261.00	216.00	242.00	223.00	255.00	223.00	274.00
B 3.24	Surface Drains in Soil (Construction of unlined surface drains of average cross sectional area 0.40 sqm in soil to specified lines, grades, levels and dimensions to the requirement of clause 301 and 309. Excavated material to be used in embankment within a lead of 50 metres (average lead 25 metres))												
B 3.24.1	Mechanical means	metre	59.00	52.00	59.00	60.00	67.00	65.00	59.00	68.00	64.00	68.00	72.00
B 3.24.2	Manual Means	metre	63.00	51.00	63.00	51.00	63.00	51.00	63.00	51.00	63.00	51.00	63.00
B 3.25	Surface Drains in Ordinary Rock (Construction of unlined surface drain of average cross sectional area 0.4 sqm in ordinary rock to specified lines, grades, levels and dimensions as per approved design and to the requirement of clause 301 to 309. Excavated material to be used in embankment at site.)												
B 3.25.1	Mechanical Means	metre	119.00	106.00	119.00	122.00	135.00	132.00	119.00	137.00	130.00	137.00	145.00
B 3.25.2	Manual Means	metre	95.00	77.00	95.00	77.00	95.00	77.00	95.00	77.00	95.00	77.00	95.00
B 3.26	Surface Drains in Hard Rock (Rate per metre may be worked out based on quantity of hard rock as per design.)	metre											

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.27	Sub Surface Drains with Perforated Pipe (Construction of subsurface drain with perforated pipe of 100 mm internal diameter of metal/ asbestos cement/ cement concrete/PVC, closely jointed, perforations ranging from 3 mm to 6 mm depending upon size of material surrounding the pipe, with 150 mm bedding below the pipe and 300 mm cushion above the pipe, cross section of excavation 450 x 550 mm. Excavated material to be utilised in roadway at site)	metre	766.00	681.00	766.00	789.00	872.00	860.00	766.00	896.00	838.00	896.00	942.00
B 3.28	Aggregate Sub- Surface Drains (Construction of aggregate sub surface drain 300 mm x 450 mm with aggregates conforming to table 300-4, excavated material to be utilised in roadway)	metre	101.00	86.00	101.00	94.00	109.00	100.00	101.00	103.00	106.00	103.00	114.00
B 3.29	Underground Drain at Edge of Pavement (Construction of an underground drain 1 m x 1 m (inside dimensions) lined with RCC-20 cm thick and covered with RCC slab 10 cm in thickness on urban roads)	metre	4365.00	4084.00	4365.00	4532.00	4833.00	4790.00	4365.00	4934.00	4521.00	4934.00	5171.00
B 3.30	Preparation and Surface Treatment of formation. (Preparation and surface treatment of formation by removing mud and slurry, watering to the extent needed to maintain the desired moisture content, trimming to the required line, grade, profile and rolling with 8-10 tonne smooth wheeled roller, complete as per clause 310.)	sqm	3.50	2.60	3.50	2.90	3.70	3.00	3.50	3.10	3.70	3.10	3.90
B 3.31	Construction of Rock fill Embankment (Construction of rock fill embankment with broken hard rock fragments of size not exceeding 300 mm laid in layers not exceeding 500 mm thick including filling of surface voids with stone spalls, blinding top layer with granular material, rolled with vibratory road roller, all complete as per clause 313)	cum	99.00	79.00	99.00	87.00	109.00	93.00	99.00	97.00	106.00	97.00	115.00
B 3.32	Excavation in Hill Area in Soil by Mechanical Means (Excavation in soil in hilly area by mechanical means including cutting and trimming of side slopes and disposing of excavated earth with all lifts and lead upto 1000 metres)	cum	207.00	193.00	207.00	211.00	225.00	224.00	207.00	230.00	219.00	230.00	238.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 3.33	Excavation in Hilly Area in Ordinary Rock by Mechanical Means not Requiring Blasting. (Excavation in hilly area in ordinary rock not requiring ballasting by mechanical means including cutting and trimming of slopes and disposal of cut material with all lift and lead upto 1000 metres)	cum	277.00	254.00	277.00	284.00	307.00	304.00	277.00	314.00	297.00	314.00	326.00
B 3.34	Excavation in Hilly Areas in Hard Rock Requiring Blasting (Excavation in hilly areas in hard rock requiring blasting, by mechanical means including trimming of slopes and disposal of cut material with all lifts and lead upto 1000 metres.)	cum	396.00	370.00	396.00	404.00	430.00	426.00	396.00	438.00	419.00	438.00	452.00
B 3.35	Work in Urban Roads (The cost of earth work in urban roads inhabited area will be comparatively higher due to following reasons:)												
B 3.36	Embankment Construction with Fly ash/Pond ash available from coal or lignite burning Thermal Plants as waste material. (Construction of embankment with fly ash conforming to table 1 of IRC: SP: 58 - 2001 obtained from coal or lignite burning thermal power stations as waste material, spread and compacted in layer of 200mm thickness each at OMC, all as specified in IRC: SP: 58-2001 and as per approved plans.)	cum	2901.00	728.00	2901.00	5203.00	7205.00	7200.00	2901.00	10570.00	7601.00	10570.00	13113.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 4.0 SUB-BASES, BASES (NON-BITUMINOUS) AND SHOULDERS												
B 4.1	Granular Sub-base with Close Graded Material (Table:- 400-1)												
B 4.1.1	Plant Mix Method (Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401)												
B 4.1.1.1	For grading- I Material	cum	3124.00	3087.00	3124.00	3120.00	3161.00	3144.00	3124.00	3157.00	3149.00	3157.00	3185.00
B 4.1.1.2	For grading- II Material	cum	3158.00	3121.00	3158.00	3154.00	3195.00	3178.00	3158.00	3191.00	3183.00	3191.00	3219.00
B 4.1.1.3	For grading-III Material	cum	3166.00	3129.00	3166.00	3162.00	3203.00	3186.00	3166.00	3199.00	3191.00	3199.00	3228.00
B 4.1.2	4.1.2 By Mix in Place Method (Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)												
B 4.1.2.1	For grading- I Material	cum	2289.00	2271.00	2289.00	2286.00	2307.00	2298.00	2289.00	2304.00	2301.00	2304.00	2319.00
B 4.1.2.2	For grading- II Material	cum	2319.00	2302.00	2319.00	2316.00	2338.00	2328.00	2319.00	2335.00	2332.00	2335.00	2350.00
B 4.1.2.3	For grading-III Material	cum	2327.00	2309.00	2327.00	2324.00	2345.00	2336.00	2327.00	2342.00	2339.00	2342.00	2357.00
B 4.2	Granular Sub-Base with Coarse Graded Material (Table:- 400- 2) (Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)												
B 4.2.1	For grading- I Material	cum	2407.00	2391.00	2407.00	2403.00	2422.00	2413.00	2407.00	2419.00	2417.00	2419.00	2433.00
B 4.2.2	For grading- II Material	cum	2579.00	2563.00	2579.00	2575.00	2594.00	2585.00	2579.00	2591.00	2589.00	2591.00	2604.00
B 4.2.3	For grading-III Material	cum	2459.00	2443.00	2459.00	2455.00	2474.00	2465.00	2459.00	2471.00	2469.00	2471.00	2484.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 4.3	Lime Stabilisation for Improving Subgrade (Laying and spreading available soil in the subgrade on a prepared surface, pulverising, mixing the spread soil in place with rotavator with 3 % slaked lime having minimum content of 70% of CaO, grading with motor grader and compacting with the road roller at OMC to the desired density to form a layer of improved sub grade)												
B 4.3.1	By Mechanical Means	cum	612.00	493.00	612.00	640.00	768.00	718.00	612.00	764.00	627.00	764.00	891.00
B 4.3.2	By Manual Means	cum	615.00	491.00	615.00	628.00	763.00	701.00	615.00	743.00	624.00	743.00	881.00
B 4.4	Lime Treated Soil for Sub- Base (Providing, laying and spreading soil on a prepared sub grade, pulverising, mixing the spread soil in place with rotavator with 3 % slaked lime with minimum content of 70% of CaO, grading with motor grader and compacting with the road roller at OMC to achieve at least 98% of the max dry density to form a layer of sub base.)	cum	1076.00	954.00	1076.00	1106.00	1238.00	1188.00	1076.00	1236.00	1096.00	1236.00	1366.00
B 4.5	Cement Treated Soil Sub Base/ Base (Providing, laying and spreading soil on a prepared sub grade, pulverising, adding the designed quantity of cement to the spread soil, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base.)	cum	1368.00	1271.00	1368.00	1388.00	1497.00	1452.00	1368.00	1489.00	1392.00	1489.00	1594.00
B 4.6	Cement Treated Crushed Rock or combination as per clause 403.2 and table 400.4 in Sub base/ Base (Providing, laying and spreading Material on a prepared sub grade, adding the designed quantity of cement to the spread Material, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base.)												
B 4.6.1	For Sub-Base course	cum	3146.00	3051.00	3146.00	3175.00	3284.00	3242.00	3146.00	3281.00	3167.00	3281.00	3388.00
B 4.6.2	For Base course	cum	3763.00	3668.00	3763.00	3792.00	3901.00	3859.00	3763.00	3898.00	3784.00	3898.00	4005.00
B 4.7	Making 50 mm x 50 mm Furrows (Making 50 mm x 50 mm furrows, 25mm deep, 450 to the center line of the road and at one metre interval in the existing thin bituminous wearing coarse including sweeping and disposal of excavated material within 1000 metres lead)	sqm	3.40	2.80	3.40	2.90	3.50	2.90	3.40	2.90	3.50	2.90	3.50

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 4.8	Inverted Choke (Construction of inverted choke by providing, laying, spreading and compacting screening B type/ coarse sand of specified grade in uniform layer on a prepared surface with motor grader and compacting with power roller etc)	cum	3379.00	3015.00	3379.00	3519.00	3877.00	3853.00	3379.00	4025.00	3719.00	4025.00	4207.00
B 4.9	Water Bound Macadam (Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density.)												
B 4.9.1	By Manual Means												
B 4.9.1.1	Grading- I												
B 4.9.1.1.1	Using Screening Crushable type such as Moorum or Gravel	cum	3191.00	2553.00	3191.00	3468.00	4156.00	3930.00	3191.00	4206.00	3203.00	4206.00	4934.00
B 4.9.1.1.2	Using Screening Type-A (13.2mm Agg.)	cum	3266.00	3025.00	3266.00	3279.00	3536.00	3853.00	3266.00	3488.00	3278.00	3488.00	3753.00
B 4.9.1.2	Grading- II												
B 4.9.1.2.1	Using Screening Crushable type such as Moorum or Gravel	cum	3267.00	2641.00	3267.00	3536.00	4210.00	3988.00	3267.00	4258.00	3279.00	4258.00	4971.00
B 4.9.1.2.2	Using Screening Type-A (13.2mm Agg.)	cum	3107.00	2866.00	3107.00	3120.00	3377.00	3251.00	3107.00	3328.00	3119.00	3328.00	3593.00
B 4.9.1.2.3	Using Screening Type-B (11.2mm Agg.)	cum	3295.00	3054.00	3295.00	3308.00	3565.00	3439.00	3295.00	3517.00	3307.00	3517.00	3781.00
B 4.9.1.3	Grading- III												
B 4.9.1.3.1	Using Screening Crushable type such as Moorum or Gravel	cum	3428.00	2802.00	3428.00	3697.00	4371.00	4149.00	3428.00	4419.00	3440.00	4419.00	5132.00
B 4.9.1.3.2	Using Screening Type-B (11.2mm Agg.)	cum	3456.00	3215.00	3456.00	3469.00	3726.00	3600.00	3456.00	3678.00	3468.00	3678.00	3942.00
B 4.9.2	By Mechanical Means:												
B 4.9.2.1	Grading- I												
B 4.9.2.1.1	Using Screening Crushable type such as Moorum or Gravel	cum	3041.00	2436.00	3041.00	3360.00	4014.00	3828.00	3041.00	4107.00	3059.00	4107.00	4798.00
B 4.9.2.1.2	Using Screening Type-A (13.2mm Agg.)	cum	3116.00	2908.00	3116.00	3171.00	3395.00	3308.00	3116.00	3389.00	3134.00	3389.00	3617.00
B 4.9.2.2	Grading- II												
B 4.9.2.2.1	Using Screening Crushable type such as Moorum or Gravel	cum	3117.00	2524.00	3117.00	3428.00	4069.00	3886.00	3117.00	4159.00	3135.00	4159.00	4835.00
B 4.9.2.2.2	Using Screening Type-A (13.2mm Agg.)	cum	2957.00	2749.00	2957.00	3012.00	3236.00	3149.00	2957.00	3229.00	2975.00	3229.00	3457.00
B 4.9.2.2.3	Using Screening Type-B (11.2mm Agg.)	cum	3145.00	2937.00	3145.00	3200.00	3424.00	3337.00	3145.00	3418.00	3163.00	3418.00	3646.00
B 4.9.2.3	Grading- III												
B 4.9.2.3.1	Using Screening Crushable type such as Moorum or Gravel	cum	3278.00	2685.00	3278.00	3589.00	4230.00	4047.00	3278.00	4320.00	3296.00	4320.00	4996.00
B 4.9.2.3.2	Using Screening Type-B (11.2mm Agg.)	cum	3306.00	3098.00	3306.00	3361.00	3585.00	3498.00	3306.00	3579.00	3324.00	3579.00	3807.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 4.10	Crushed Cement Concrete Sub-base / Base (Breaking and crushing of material obtained by breaking damaged cement concrete slabs to size range not exceeding 75 mm as specified in table 400.7 transporting the aggregates obtained from breaking of cement concrete slabs at a lead of L km., laying and compacting the same as sub base/ base course, constructed as WBM to clause 404 except the use of screening or binding Material.)	cum	755.00	703.00	755.00	720.00	775.00	734.00	755.00	740.00	768.00	740.00	788.00
B 4.11	Penetration Coat Over Top Layer of Crushed Cement Concrete Base (Spraying of bitumen over cleaned dry surface of crushed cement concrete base at the rate of 25 kg per 10 sqm by a bitumen pressure distributor, spreading of key aggregates at the rate of 0.13 cum per 10 sqm by a mechanical gritter and rolling the surface as per clause 506.3.8)	sqm	42.00	41.00	42.00	42.00	43.00	43.00	42.00	43.00	43.00	43.00	43.00
B 4.12	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)	cum	3399.00	3371.00	3399.00	3395.00	3426.00	3413.00	3399.00	3422.00	3417.00	3422.00	3444.00
B 4.13	Construction of Median and Island with Soil Taken from Roadway Cutting (Construction of Median and Island above road level with approved material deposited at site from roadway cutting and excavation for drain and foundation of other structures, spread, graded and compacted as per clause 407)	cum	290.00	226.00	290.00	245.00	309.00	258.00	290.00	264.00	303.00	264.00	322.00
B 4.14	Construction of Median and Island with Soil Taken from Borrow Areas (Construction of median and Island above road level with approved material brought from borrow pits, spread, sloped and compacted as per clause 407)	cum	895.00	834.00	895.00	858.00	920.00	874.00	895.00	883.00	913.00	883.00	937.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 4.15	Construction of Shoulders (A. Earthen Shoulders)												
B 4.16	Footpaths and Separators (Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 25 mm thick cement concrete grade M15, over laid with precast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel..)	sqm	2223.00	2030.00	2223.00	2302.00	2492.00	2479.00	2223.00	2572.00	2396.00	2572.00	2674.00
B 4.17	Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)												
B 4.17.1	By Mix in Place Method												
B 4.17.1.1	For 53 mm maximum size	cum	2159.00	2137.00	2159.00	2151.00	2176.00	2162.00	2159.00	2167.00	2170.00	2167.00	2187.00
B 4.17.1.2	For 45 mm maximum size	cum	2118.00	2096.00	2118.00	2110.00	2135.00	2121.00	2118.00	2127.00	2130.00	2127.00	2146.00
B 4.17.2	By Mixing Plant :												
B 4.17.2.1	For 53 mm maximum size	cum	2739.00	2716.00	2739.00	2747.00	2775.00	2771.00	2739.00	2783.00	2763.00	2783.00	2798.00
B 4.17.2.2	For 45 mm maximum size	cum	1699.00	1679.00	1699.00	1699.00	1721.00	1714.00	1699.00	1721.00	1714.00	1721.00	1736.00
B 4.18	Lime, Fly ash stabilised soil sub-base (Construction of Sub-base using lime - fly ash admixture with granular soil, free from organic matter/ deleterious material or clayey silts and low plasticity clays having PI between 5 and 20 and liquid limit less than 25 and commercial dry lime, slaked at site or pre-slaked with CaO content not less than 50%, fly ash to conform to gradation as per clause 4.3 of IRC: 88-1984, lime + fly ash content ranging between 10 to 30%, the minimum un-confined compressive strength and CBR value after 28 days curing and 4 days soaking to be 7.5kg/sq, cm and 25% respectively, all as specified in IRC: 88-1984.)	cum	1391.00	896.00	1391.00	1869.00	2342.00	2316.00	1391.00	2977.00	2255.00	2977.00	3549.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.0 BASES AND SURFACE COURSES (BITUMINOUS)													
B 5.1	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means.)	sqm	45.00	43.40	45.00	45.00	46.50	46.00	45.00	46.50	44.90	46.50	48.00
B 5.2	Tack coat												
	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	sqm	15.70	15.20	15.70	15.90	16.40	16.30	15.70	16.40	15.80	16.40	16.90
B 5.3	Bituminous Macadam (Providing and laying bituminous macadam with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction)												
B 5.3.1	For Grading I (40 mm nominal size)	cum	7706.00	7567.00	7706.00	7787.00	7937.00	7906.00	7706.00	7975.00	7738.00	7975.00	8118.00
B 5.3.2	For GradingII(19 mm nominal size)	cum	7558.00	7419.00	7558.00	7639.00	7790.00	7759.00	7558.00	7827.00	7591.00	7827.00	7970.00
B 5.4	Bituminous Penetration Macadam (Construction of penetration macadam over prepared Base by providing a layer of compacted crushed coarse aggregate using chips spreader with alternate applications of bituminous binder and key aggregates and rolling with a smooth wheeled steel roller 8-10 tonne capacity to achieve the desired degree of compaction)												
B 5.4.1	50 mm thick	sqm	452.00	444.00	452.00	458.00	466.00	464.00	452.00	468.00	453.00	468.00	477.00
B 5.4.2	75 mm thick	sqm	616.00	606.00	616.00	623.00	635.00	632.00	616.00	638.00	617.00	638.00	650.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.5	Built-Up-Spray Grout (Providing, laying and rolling of built-up-spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates using motor grader for aggregates. key stone chips spreader may be used with application of bituminous binder after each layer, and with key aggregates placed on top of the second layer to serve as a Base conforming to the line, grades and cross-section specified, the compacted layer thickness being 75 mm)	sqm	377.00	372.00	377.00	381.00	387.00	386.00	377.00	388.00	379.00	388.00	394.00
B 5.6	Dense Graded Bituminous Macadam (Providing and laying dense bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.)												
B 5.6.1	For Grading I (40 mm nominal size)	cum	9658.00	9361.00	9658.00	9834.00	10150.00	10094.00	9658.00	10242.00	9747.00	10242.00	10530.00
B 5.6.2	For GradingII(19 mm nominal size)	cum	9746.00	9448.00	9746.00	9922.00	10238.00	10181.00	9746.00	10330.00	9835.00	10330.00	10617.00
B 5.7	Semi - Dense Bituminous Concrete (Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects)												
B 5.7.1	For Grading I (13 mm nominal size)	cum	10121.00	9814.00	10121.00	10302.00	10627.00	10569.00	10121.00	10721.00	10210.00	10721.00	11018.00
B 5.7.2	For GradingII(10 mm nominal size)	cum	10482.00	10159.00	10482.00	10674.00	11018.00	10955.00	10482.00	11116.00	10571.00	11116.00	11433.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.8	Bituminous Concrete (Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects)												
B 5.8.1	For Grading I (13 mm nominal size)	cum	11170.00	10840.00	11170.00	11366.00	11717.00	11653.00	11170.00	11817.00	11261.00	11817.00	12141.00
B 5.8.2	For GradingII(10 mm nominal size)	cum	11128.00	10799.00	11128.00	11325.00	11676.00	11611.00	11128.00	11776.00	11219.00	11776.00	12099.00
B 5.9	Surface Dressing (Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller)												
B5.9.1	19 mm nominal chipping size	sqm	110.00	108.00	110.00	112.00	114.00	113.00	110.00	114.00	111.00	114.00	117.00
B5.9.2	13 mm nominal size chipping	sqm	88.00	86.00	88.00	89.00	91.00	91.00	88.00	92.00	89.00	92.00	94.00
B 5.10	Open - Graded Premix Surfacing (Providing, laying and rolling of open - graded premix surfacing of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or cut-back or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades.)												
B 5.10.1	Mechanical method using Penetration grade Bitumen and HMP of appropriate capacity not less than 75 tonnes/hour .	sqm	178.00	175.00	178.00	179.00	182.00	181.00	178.00	183.00	178.00	183.00	186.00
B 5.10.2	Open-Graded Premix Surfacing using cationic bitumen emulsion	sqm	254.00	249.00	254.00	255.00	260.00	258.00	254.00	260.00	255.00	260.00	266.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.11	Close Graded Premix Surfacing/Mixed Seal Surfacing (Mechanical means using HMP of appropriate capacity not less than 75 tonnes/hour. Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-a) or 13.2 mm to 0.09 mm (Type-b) aggregates using penetration grade bitumen to the required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade.)	sqm	216.00	212.00	216.00	218.00	222.00	221.00	216.00	223.00	216.00	223.00	227.00
B 5.12	Seal Coat (Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A and B seal coats)												
B 5.12.1	Type A	sqm	77.00	76.00	77.00	78.00	80.00	80.00	77.00	81.00	78.00	81.00	83.00
B 5.12.2	Type B (Providing and laying of premix sand seal coat with HMP of appropriate capacity not less than 75 tonnes/ hours using crushed stone chipping 6.7 mm size and penetration bitumen of suitable grade.)	sqm	61.00	59.00	61.00	62.00	64.00	64.00	61.00	64.00	62.00	64.00	66.00
B 5.13	Supply of Stone Aggregates for Pavement Courses (Supply of stone aggregates from approved sources confirming to the physical requirement, specified in the respective specified clauses, including royalties, fees rents, collection, transportation, stacking and testing and measured in cum as per clause 514.5 Competitive market rates to be ascertained. Alternatively, rates for stone crushing given in chapter 1 may be adopted, if found economical. In case for supply of aggregates at site are not available, nearest crusher site may be ascertained. Loading and un-loading charges and cost of carriage may be added to these rates to arrive at the cost at site.)	cum		Please refer items No. 1.5 to 1.8									

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.14	Mastic Asphalt (Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.)	sqm	734.00	677.00	734.00	740.00	798.00	775.00	734.00	795.00	750.00	795.00	847.00
B 5.15	Slurry Seal Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface)												
B 5.15.1	5 mm thickness	sqm	95.00	93.00	95.00	97.00	99.00	99.00	95.00	100.00	96.00	100.00	102.00
B 5.15.2	3 mm thickness	sqm	69.00	67.00	69.00	70.00	71.00	71.00	69.00	72.00	69.00	72.00	74.00
B 5.15.3	1.5 mm thickness	sqm	42.00	41.00	42.00	42.00	44.00	43.00	42.00	44.00	42.00	44.00	45.00
B 5.16	Recycling of Bituminous Pavement with Central Recycling Plant (Recycling pavement by cold milling of exiting bituminous layers, planning the surface after cold milling, reclaiming excavated material to the extent of 30 % of the required quantity, hauling and stock piling the reclaimed material near the central recycling plant after carrying out necessary checks and evaluation, adding fresh material including rejuvenators as required, mixing in a hot mix plant, transporting and laying at site and compacting to the required grade, level and thickness, all as specified in clause 517.)	cum	7335.00	7147.00	7335.00	7452.00	7658.00	7614.00	7335.00	7708.00	7373.00	7708.00	7909.00
B 5.17	Fog Spray	sqm	54.00	53.00	54.00	55.00	56.00	56.00	54.00	57.00	54.00	57.00	58.00
B5.17.1	In case it is decided by the engineer to blind the fog spray, the following may be added	sqm	8.40	8.30	8.40	8.40	8.50	8.50	8.40	8.50	8.40	8.50	8.60

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.18	Bituminous Cold Mix (Including Gravel Emulsion) (Providing, laying and rolling of bituminous cold mix on prepared base consisting of a mixture of unheated mineral aggregate and emulsified or cutback bitumen, including mixing in a plant of suitable type and capacity, transporting, laying, compacting and finishing to specified grades and levels.)												
B 5.18.1	Using bitumen emulsion and 9.5 mm or 13.2 mm nominal size aggregate	cum	15628.00	15280.00	15628.00	15847.00	16220.00	16135.00	15628.00	16306.00	15651.00	16306.00	16693.00
B 5.18.2	Using bitumen emulsion and 19 mm or 26.5 mm nominal size aggregate	cum	15758.00	15410.00	15758.00	15977.00	16350.00	16265.00	15758.00	16436.00	15781.00	16436.00	16823.00
B 5.18.3	Using cutback bitumen and 9.5 mm or 13.2 mm nominal size aggregate	cum	12168.00	11915.00	12168.00	12323.00	12592.00	12531.00	12168.00	12654.00	12191.00	12654.00	12930.00
B 5.18.4	Using cutback bitumen and 19 mm or 26.5 mm nominal size aggregate	cum	12256.00	12003.00	12256.00	12411.00	12680.00	12619.00	12256.00	12742.00	12279.00	12742.00	13018.00
B 5.19	Sand Asphalt Base Course (Providing, laying and rolling sand-asphalt base course composed of sand, mineral filler and bituminous binder on a prepared sub-grade or sub-base to the lines, levels, grades and cross sections as per the drawings including mixing in a plant of suitable type and capacity, transporting, laying, compacting and finishing.)	cum	11810.00	11121.00	11810.00	12176.00	12876.00	12815.00	11810.00	13161.00	12271.00	13161.00	13640.00
B 5.20	Modified Binder (Supply of modified binder produced by mixing bitumen with modifier such as natural rubber or crumb rubber or any other polymer found compatible with bitumen and which allows properties given in clause 521.3 and IRC: SP: 53 blending of modifier with bitumen to be done either at the refinery or at the site plant capable of producing the modified binder to be delivered in drums which shall be agitated in melted condition using suitable device before use to ensure uniform dispersion.)	tonne											

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.21	Crack Prevention Courses												
B 5.21.1	Stress Absorbing Membrane (SAM) crack width less than 6 mm (Providing and laying of a stress absorbing membrane over a cracked road surface, with crack width below 6 mm after cleaning with a mechanical broom, using modified binder complying with clause 521, sprayed at the rate of 9 kg per 10 sqm and spreading 5.6 mm crushed stone aggregates @ 0.11 cum per 10 sqm with hydraulic chip spreader, sweeping the surface for uniform spread of aggregates and surface finished to conform to clause 902.)	sqm	89.00	87.00	89.00	90.00	92.00	91.00	89.00	92.00	89.00	92.00	94.00
B 5.21.2	Stress Absorbing Membrane (SAM) with crack width 6 mm to 9 mm (Providing and laying of a stress absorbing membrane over a cracked road surface, with crack width 6 to 9 mm after cleaning with a mechanical broom, using modified binder complying with clause 521, sprayed at the rate of 11 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished to conform to clause 902.)	sqm	110.00	108.00	110.00	111.00	113.00	113.00	110.00	114.00	110.00	114.00	116.00
B 5.21.3	Stress Absorbing Membrane (SAM) crack width above 9 mm and cracked area above 50 % (Providing and laying a single coat of a stress absorbing membrane over a cracked road surface, with crack width above 9 mm and cracked area above 50 % after cleaning with a mechanical broom, using modified binder complying with clause 521, sprayed at the rate of 15 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished to conform to clause 902.)	sqm	145.00	142.00	145.00	147.00	149.00	149.00	145.00	150.00	145.00	150.00	153.00
B 5.21.4	Bitumen Impregnated Geotextile (Providing and laying a bitumen impregnated geotextile layer after cleaning the road surface, geotextile conforming to requirements of clause 704.3, laid over a tack coat with 1.05 kg per sqm of paving grade bitumen 80 - 100 penetration and constructed to the requirement of clause 704.4.5)	sqm	95.00	90.00	95.00	98.00	103.00	103.00	95.00	105.00	99.00	105.00	109.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 5.22	Recipe Cold Mix (Providing and laying of premix of crushed stone aggregates and emulsion binder, mixed in a batch type cold mixing plant, laid over prepared surface, by paver finisher, rolled with a pneumatic tyred roller initially and finished with a smooth steel wheel roller, all as per clause 519.3)												
B 5.22.1	75 mm thickness	cum	10916.00	10732.00	10916.00	11021.00	11216.00	11173.00	10916.00	11261.00	10949.00	11261.00	11451.00
B 5.22.2	40 mm thickness	cum	15248.00	14984.00	15248.00	15405.00	15687.00	15624.00	15248.00	15752.00	15281.00	15752.00	16035.00
B 5.22.3	25 mm thickness	cum	16542.00	16230.00	16542.00	16731.00	17064.00	16990.00	16542.00	17142.00	16575.00	17142.00	17481.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 6.0 CEMENT CONCRETE PAVEMENTS												
B 6.1	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	cum	5531.00	5269.00	5531.00	5672.00	5955.00	5909.00	5531.00	6040.00	5683.00	6040.00	6259.00
B 6.2	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing)	cum	10051.00	9491.00	10051.00	10381.00	10992.00	10886.00	10051.00	11170.00	10326.00	11170.00	11691.00
B 6.3	Rolled Cement Concrete Base (Construction of rolled cement concrete base course with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm with minimum, aggregate cement ratio15:1 and minimum cement content of 200 kg/cum, aggregate gradation to be as per table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing.)	cum	6022.00	5723.00	6022.00	6193.00	6517.00	6462.00	6022.00	6612.00	6177.00	6612.00	6877.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 6.4	Transition section between rigid and flexible pavement (Due to change in the properties of materials and type of construction, a gradual changeover from rigid pavement to flexible pavement is desirable to avoid any damage at the butting joint. After provision of an expansion joint in the cement concrete slab, the thickness of slab should be tapered to 10 cm over a length of 3 m towards the flexible pavement. The deficiency of thickness caused due to tapering of the slab should be made up by the asphaltic layers.)												
B 6.5	Construction of Base/Sub-base of pavement with lean concrete - fly ash. (Construction of Base/sub-base using cement, sand, fly ash and coarse aggregates proportioned as per table 4 of IRC: 74/1979 and with water content ratio, slump and compressive strength as defined in the said table, mix prepared in a batching and mixing plant and compacted with a vibratory roller 8-10 tonnes capacity within the time limit laid down vide clause 7.6.3 of IRC: 74-1979, construction joints properly formed at the end of day's work, cured for 14 days, all as specified in IRC: 74-1979 and as per approved plans.)	cum	4936.00	4740.00	4936.00	5060.00	5276.00	5241.00	4936.00	5343.00	5031.00	5343.00	5526.00
B 6.6	Cement - Fly ash concrete pavement. (Construction reinforced-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, replacing cement by fly ash to the extent of 15% and sand by 10%, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing)	cum	10073.00	9446.00	10073.00	10423.00	11091.00	10996.00	10073.00	11312.00	10451.00	11312.00	11832.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 7.0 GEOSYNTHETICS AND REINFORCED EARTH												
B 7.1	Sub- Surface Drain with Geotextiles (Construction of sub surface drain 200 mm dia using geotextiles treated with carbon black with physical properties as given in clause 702.2.3 formed in to a stable network and a planar geocomposite structure, joints wrapped with geotextile to prevent ingress of soil, all as per clause 702)	metre	394.00	348.00	394.00	371.00	417.00	387.00	394.00	395.00	410.00	395.00	432.00
B 7.2	Narrow Filter Sub- Surface Drain (Construction of a narrow filter sub- surface drain consisting of porous or perforated pipe laid in narrow trench surrounded by a geotextile filter fabric, with a minimum of 450 mm overlap of fabric and installed as per clause 702.3 and 309.3.5 including excavation and backfilling)	metre	1144.00	1021.00	1144.00	1159.00	1280.00	1249.00	1144.00	1296.00	1237.00	1296.00	1370.00
B 7.3	Laying Paving Fabric Beneath a Pavement Overlay (Providing and laying paving fabric with physical requirements as per table 704-2 over a tack coat of paving grade Bitumen 80-100 penetration, laid at the rate of 1 kg per sqm to provide a water resistant membrane and crack retarding layer. Paving fabric to be free of wrinkling and folding and to be laid before cooling of tack coat, brooming and rolling of surface with pneumatic roller to maximise paving fabric contact with pavement surface)	sqm	413.00	374.00	413.00	431.00	469.00	468.00	413.00	487.00	449.00	487.00	506.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 7.4	Laying Boulder Apron in Crates of Synthetic Geogrids (Providing, preparing and laying of geogrid crated apron 1 m x 5 m, 600 mm thick including excavation and backfilling with baffles at 1 metre interval, made with geogrids having characteristics as per clause 704.2, joining sides with connectors/ring staples, top corners to be tie tensioned, placing of suitable cross interval ties in layers of 300 mm connecting opposite side with lateral braces and tied with polymer braids to avoid bulging, constructed as per clause 704.3. filled with stone with minimum size of 200 mm and specific gravity not less than 2.65, packed with stone spalls, keyed to the foundation recess in case of sloping ground and laid over a layer of geotextile to prevent migration of fines)	cum	660.00	605.00	660.00	676.00	730.00	723.00	660.00	747.00	708.00	747.00	777.00
B 7.5	Reinforced Earth Retaining Wall (a) Excavation, foundation concrete and cement concrete grooved seating in the foundation b) Facia material and its placement. c) Joining with facing elements and laying of the reinforcing elements. d) Earthfill.)												
B 7.5.1	Facing elements of RCC	sqm	1941.00	1830.00	1941.00	2005.00	2129.00	2109.00	1941.00	2167.00	2003.00	2167.00	2266.00
B 7.5.2	Assembling, joining and laying of reinforcing elements.												
B 7.5.2.1	With reinforcing element of steel / Aluminium strips												
B 7.5.2.1.1	Galvanised carbon steel strips	metre	50.00	45.00	50.00	52.00	57.00	56.00	50.00	59.00	55.00	59.00	61.00
B 7.5.2.1.2	Copper Strips	metre	80.00	71.00	80.00	83.00	91.00	90.00	80.00	94.00	87.00	94.00	98.00
B 7.5.2.1.3	Aluminium Strips	metre	89.00	79.00	89.00	92.00	101.00	100.00	89.00	105.00	97.00	105.00	109.00
B 7.5.2.1.4	Stainless steel strips	metre	89.00	60.00	89.00	92.00	101.00	100.00	89.00	105.00	97.00	105.00	82.00
B 7.5.2.1.5	Glass reinforced polymer/fibre reinforced polymer /polymeric strips	metre	139.00	124.00	139.00	144.00	159.00	158.00	139.00	165.00	152.00	165.00	172.00
B 7.5.2.2	With reinforcing elements of synthetic geogrids	sqm	84.00	75.00	84.00	86.00	95.00	94.00	84.00	97.00	91.00	97.00	102.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 8.0 TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES												
B 8.1	Cast in Situ Cement Concrete M20 kerb (Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408)												
B 8.1.1	Using Concrete Mixer	metre	449.00	413.00	449.00	452.00	490.00	474.00	449.00	487.00	463.00	487.00	520.00
B 8.1.2	Using Concrete Batching and Mixing Plant	metre	471.00	438.00	471.00	476.00	511.00	497.00	471.00	509.00	484.00	509.00	540.00
B 8.2	Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408)												
B 8.2.1	Using Concrete Mixer	metre	840.00	779.00	840.00	852.00	917.00	893.00	840.00	916.00	865.00	916.00	972.00
B 8.2.2	Using Concrete Batching and Mixing Plant	metre	879.00	821.00	879.00	892.00	954.00	933.00	879.00	956.00	903.00	956.00	1009.00
B 8.3	Printing new letter and figures of any shade (Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade)												
B 8.3.1	Hindi (Matras commas and the like not to be measured and paid for Half letter shall be counted as half)	cm height per letter	0.90	0.80	0.90	0.80	0.90	0.80	0.90	0.80	0.90	0.80	0.90
B 8.3.2	English and Roman	cm height per letter	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.4	Retro- reflectorised Traffic signs (Providing and fixing of retro-reflectorised cautionary, mandatory and inforatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)												
B 8.4.1	90 cm equilateral triangle	each	7990.00	7296.00	7990.00	8281.00	9003.00	8953.00	7990.00	9249.00	8592.00	9249.00	9627.00
B 8.4.2	60 cm equilateral triangle	each	4849.00	4479.00	4849.00	4986.00	5392.00	5342.00	4849.00	5474.00	5130.00	5474.00	5704.00
B 8.4.3	60 cm circular	each	6905.00	6323.00	6905.00	7143.00	7756.00	7706.00	6905.00	7945.00	7396.00	7945.00	8272.00
B 8.4.4	80 mm x 60 mm rectangular	each	10095.00	9184.00	10095.00	10490.00	11423.00	11373.00	10095.00	11778.00	10912.00	11778.00	12257.00
B 8.4.5	60 cm x 45 cm rectangular	each	6695.00	6135.00	6695.00	6922.00	7514.00	7464.00	6695.00	7692.00	7164.00	7692.00	8009.00
B 8.4.6	60 cm x 60 cm square	each	8152.00	7441.00	8152.00	8451.00	9189.00	9139.00	8152.00	9443.00	8770.00	9443.00	9830.00
B 8.4.7	90 cm high octagon	each	13203.00	11972.00	13203.00	13752.00	14997.00	14947.00	13203.00	15514.00	14338.00	15514.00	16140.00
B 8.5	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing)	sqm	18760.00	16971.00	18760.00	19575.00	21327.00	21274.00	18760.00	22159.00	20440.00	22159.00	23047.00
B 8.6	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro- reflectorised sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)	sqm	32065.00	29054.00	32065.00	33438.00	36390.00	36294.00	32065.00	37782.00	34874.00	37782.00	39292.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.7	Overhead Signs (Providing and erecting overhead signs with a corrosion resistant aluminium alloy sheet reflectorised with high intensity retro-reflective sheeting of encapsulated lense type with vertical and lateral clearance given in clause 802.2 and 802.3 and installed as per clause 802.7 over a designed support system of aluminium alloy or galvanised steel trestles and trusses of sections and type as per structural design requirements and approved plans)												
B 8.7.1	Truss and Vertical Support	tonne	90333.00	81053.00	90333.00	94414.00	103459.00	103217.00	90333.00	107775.00	99293.00	107775.00	112182.00
B 8.7.2	Aluminium alloy plate for over head sign	sqm	1099.00	986.00	1099.00	1140.00	1251.00	1242.00	1099.00	1294.00	1203.00	1294.00	1352.00
B 8.8	Painting Two Coats on New Concrete Surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces)	sqm	173.00	171.00	173.00	171.00	173.00	171.00	173.00	172.00	173.00	172.00	173.00
B 8.9	Painting on Steel Surfaces (Providing and applying two coats of ready mix paint of approved brand on steel surface after through cleaning of surface to give an even shade)	sqm	83.00	81.00	83.00	81.00	83.00	81.00	83.00	81.00	83.00	81.00	83.00
B 8.10	Painting on Wood Surfaces (Providing and applying two coats of ready mix paint of approved brand on wood surface after through cleaning of surface to give an even shade)	sqm	94.00	93.00	94.00	93.00	95.00	93.00	94.00	93.00	94.00	93.00	95.00
B 8.11	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work (Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control)												
B 8.11.1	Over 10 cm in width	sqm	205.00	195.00	205.00	195.00	205.00	196.00	205.00	196.00	205.00	196.00	205.00
B 8.11.2	Up to 10 cm in width	sqm	191.00	182.00	191.00	183.00	191.00	183.00	191.00	183.00	191.00	183.00	191.00
B 8.12	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on Old Work (Painting lines, dashes, arrows etc on roads in two coats on old work with ready mixed road marking paint confirming to IS: 164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control)												
B 8.12.1	Over 10 cm in width	sqm	133.00	125.00	133.00	125.00	133.00	125.00	133.00	125.00	133.00	125.00	133.00
B 8.12.2	Up to 10 cm in width	sqm	138.00	130.00	138.00	130.00	138.00	130.00	138.00	130.00	138.00	130.00	138.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.)	sqm	3486.00	3466.00	3486.00	3496.00	3515.00	3514.00	3486.00	3524.00	3501.00	3524.00	3536.00
B 8.14	Kilo Metre Stone (Reinforced cement concrete M15grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)												
B 8.14.1	5th kilometre stone (precast)	each	4207.00	3905.00	4207.00	4218.00	4536.00	4401.00	4207.00	4503.00	4324.00	4503.00	4772.00
B 8.14.2	Ordinary Kilometer stone (Precast)	each	2585.00	2400.00	2585.00	2598.00	2793.00	2712.00	2585.00	2776.00	2653.00	2776.00	2943.00
B 8.14.3	Hectometer stone (Precast)	each	675.00	629.00	675.00	672.00	699.00	676.00	675.00	713.00	692.00	713.00	755.00
B 8.15	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings.)	each	864.00	774.00	864.00	904.00	992.00	990.00	864.00	1034.00	951.00	1034.00	1077.00
B 8.16	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting)	each	609.00	551.00	609.00	599.00	641.00	622.00	609.00	646.00	635.00	646.00	692.00
B 8.17	G.I Barbed wire Fencing 1.2 metre high (Providing and fixing 1.2 metres high GI barbed wire fencing with 1.8 m angle iron posts 40 mm x 40 mm x 6 mm placed every 3 metres center to center founded in M15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn bucklescomplete as per clause 807)	metre	322.00	304.00	322.00	326.00	350.00	345.00	322.00	346.00	333.00	346.00	360.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.18	G.I Barbed wire Fencing 1.8 metre high (Providing and fixing 1.8 metres high GI barbed wire fencing with 2.4 m angle iron posts 50 mm x 50 mm x 6 mm placed every 3 metres center to center founded in M15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 12 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles complete as per clause 807)	metre	532.00	506.00	532.00	539.00	576.00	569.00	532.00	568.00	546.00	568.00	588.00
B 8.19	Fencing with welded steel wire Fabric 75 mm x 50 mm (Suggestive) (Providing 1.20 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.40 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with welded steel wire fabric of 75 mm x 50 mm mesh or 75 mm x 25 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. complete in all respects.)	metre	771.00	718.00	771.00	791.00	866.00	860.00	771.00	862.00	813.00	862.00	893.00
B 8.20	Tubular Steel Railing on Medium Weight steel channel (ISMC series) 100 mm x 50 mm (Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 metres high above ground, 2 m centre to centre, complete as per approved drawings)	metre	2494.00	2316.00	2494.00	2562.00	2813.00	2787.00	2494.00	2798.00	2625.00	2798.00	2913.00
B 8.21	Tubular Steel Railing on Precast RCC posts, 1.2 m high above ground level (Providing, fencing and erecting 50 mm dia painted steel pipe railing in 3 rows on precast M20 grade RCC vertical posts 1.8 metres high (1.2 m above GL) with 3 holes 50 mm dia for pipe, fixed 2 metres centre to, complete as per approved drawing)	metre	1987.00	1810.00	1987.00	2058.00	2359.00	2337.00	1987.00	2297.00	2127.00	2297.00	2496.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.22	Reinforced Cement Concrete Crash Barrier (Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-20 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified)												
B 8.22.1	8.22.1 M 20 grade concrete	metre	4800.00	4601.00	4800.00	4932.00	5174.00	5134.00	4800.00	5247.00	4911.00	5247.00	6304.00
B 8.23	Metal Beam Crash Barrier												
B 8.23.1	"W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 810)	metre	3473.00	3391.00	3473.00	3504.00	3591.00	3561.00	3473.00	3595.00	3474.00	3595.00	3687.00
B 8.23.2	"THRIE" : Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	metre	4670.00	4462.00	4670.00	4786.00	5009.00	4947.00	4670.00	5044.00	4671.00	5044.00	5283.00
B 8.24	Road Traffic Signals electrically operated (Since it is a ready made item commercially produced and erected by specialised firm in the electrical and electronic field, rate may be taken based on market enquiry from firms specialised in this field and ISI certified for the approved design and drawing.)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.25	Flexible Crash Barrier, Wire Rope Safety Barrier (Providing and erecting a wire rope safety barrier with vertical posts of medium weight RS Joist (ISMB series) 100 mm x 75 mm (11.50 kg/m), 1.50 m long 0.85 m above ground and 0.65 m below ground level, split at the bottom for better grip, embedded in M 15 grade cement concrete 450 x 450 x 450 mm, 1.50 m center to center and with 4 horizontal steel wire rope 40 mm dia and anchored at terminal posts 15 m apart. Terminal post to be embedded in M 15 gradecementconcretefoundation2400 x 450 x 900 mm (depth), strengthened by a strut of RS joist 100 x 75 mm, 2 m long at 450 inclination and a tie 100 x 8 mm, 1.50 m long at the bottom, all embedded in foundation concrete as per approved design and drawing, rate excluding excavation and cement concrete.)	metre	3652.00	3453.00	3652.00	3741.00	4035.00	4014.00	3652.00	4016.00	3797.00	4016.00	4143.00
B 8.26	Anti - Glare Devices in Median												
B 8.26.1	Plantation (Plantation of shrubs and plants of approved species in the median. apart from cutting off glare from vehicle coming from opposite direction, these plants provide a pleasant environment and are eco-friendly. The rate for this item is available in the chapter 11 on horticulture.)												
B 8.26.2	Anti - Glare Screen with 25 mm steel pipe framework fixed with circular and rectangular vans (Providing and erecting an anti - glare screen with 25 mm dia vertical pipes fabricated and framed in the form of panels of one metre length and 1.75 mtr height fixed with circular vane 250 mm dia at top and rectangular vane 600 x 300 mm at the middle, made out of steel sheet of 3 mm thickness, end vertical pipes of the panel made larger for embedding in foundation concrete, applying 2 coats of paint on all exposed surfaces, all as per approved design and drawings.)	metre	4246.00	3872.00	4246.00	4415.00	4938.00	4925.00	4246.00	5109.00	4751.00	5109.00	5296.00
B 8.26.3	Anti - Glare Screen with Rectangular Vane of MS sheet (Providing and erecting anti - glare screen with rectangular vanes of size 750 x 500 mm made from MS sheet, 3 mm thick and fixed on MS angle 50 x 50 x 6 mm at an angle of 450 to the direction of flow of traffic, 1.5 m center to center, top edge of the screen 1.75 m above ground level, vertical post firmly embedded in cement concrete foundation 0.60 m below ground level, applying 2 coats of paint on exposed faces, all complete as per approved design and drawings)	metre	1054.00	1027.00	1054.00	1064.00	1142.00	1132.00	1054.00	1144.00	1106.00	1144.00	1174.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.27	Street Lighting (Providing and erecting street light mounted on a steel circular hollow pole of standard specifications for street lighting, 9 m high spaced 40 m apart, 1.8 m overhang on both sides if fixed in the median and on one side if fixed on the footpath, fitted with sodium vapour lamp and fixed firmly in concrete foundation.)												
B 8.27.1	For Fixing in Median	each	34697.00	31151.00	34697.00	36336.00	40286.00	40245.00	34697.00	41521.00	38173.00	41521.00	43176.00
B 8.27.2	For fixing in Footpath	each	34609.00	31065.00	34609.00	36250.00	40101.00	40062.00	34609.00	41435.00	38085.00	41435.00	43088.00
B 8.28	Lighting on Bridges (Providing and fixing lighting on bridges, mounted on steel hollow circular poles of standard specifications, 5 m high fixed on parapets with cement concrete, 20 m apart and fitted with sodium vapour lamp)	each	24259.00	21771.00	24259.00	25407.00	28069.00	28040.00	24259.00	29044.00	26697.00	29044.00	30206.00
B 8.29	Cable Duct Across the Road (Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings.)												
B 8.29.1	Single Row for one utility service	metre	9098.00	8192.00	9098.00	9508.00	10476.00	10455.00	9098.00	10822.00	9970.00	10822.00	11256.00
B 8.29.2	Double Row for two utility services	metre	17795.00	16004.00	17795.00	18615.00	20475.00	20443.00	17795.00	21222.00	19527.00	21222.00	22072.00
B 8.29.3	Triple Row for three utility services	metre	26505.00	23829.00	26505.00	27735.00	30487.00	30444.00	26505.00	31636.00	29098.00	31636.00	32901.00
B 8.30	Highway Patrolling and Traffic Aid Post (It is proposed to locate one Traffic Aid Post every 50-60 km of the highway.)												
B 8.31	Items related to under pass/ subway/ overhead bridge/ overhead foot bridge (The items involved for underpass/ subway/ overhead bridge/ overhead foot bridge are earthwork, plain cement concrete, plastering, painting, information sign etc. The rates for these items are available in respective chapters which can be adopted for the quantities derived from the approved designs and drawings)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.32	Traffic Control System and Communication system (Providing a traffic control centre and communication system including telecommunication facilities and related accessories, CCTV, radar, vehicle detection camera, central computer system These are specialised item of telecommunication system and are the commercial products. The designer is required to contact the manufacturers to ascertain market prices. In case of civil works required to be executed for these installations, pricing may be done as per rates in relevant chapters for quantities derived approved design and drawing.)												
B 8.33	Gantry Mounted Variable Message Sign board (Providing and erecting gantry mounted variable message sign board electronically operated capable of flashing the desired message over a designed support system of aluminium alloy or galvanised steel, erected as per approved design and drawings and with lateral clearance as per clause 802.3)												
B 8.33.1	Gantry Support System	tonne	87889.00	78955.00	87889.00	91983.00	100687.00	100566.00	87889.00	105011.00	96626.00	105011.00	109194.00
B 8.33.2	Message Display (Message display board 6 sqm electronically operated with complete electronic fitments for flashing the pre-determined messages.)												
B 8.34	Traffic Impact Attenuators at Abutments and Piers												
B 8.34.1	With Scrap Tyres (Provision and installation of traffic attenuators at abutment/pier of flyovers bridges using scrap tyres of size 100 x 20 retrieved from trucks laid in 2 rows and 4 tiers, one above the other and tied with 20 mm wire rope as per approved design and drawings.)	sqm	4054.00	3635.00	4054.00	4248.00	4657.00	4653.00	4054.00	4862.00	4466.00	4862.00	5058.00
B 8.34.2	Using Plastic/Steel Barrel, Filled with Sand (Provision and installation of traffic impact attenuator at abutment/pier of flyovers bridges using plastic/steel barrels 0.60 m dia and 1.0 m in height, filled with sand in three rows and tied with 20 mm steel wire rope as per approved design and drawings)	sqm	2002.00	1792.00	2002.00	2089.00	2294.00	2285.00	2002.00	2387.00	2202.00	2387.00	2488.00
B 8.34.3	With HI - DRO cell Sandwich (Patented) ((In this patented HI - DRO cell system, water gets discharged from plastic tubes on impact over a pre-determined time, thus absorbing the energy))	sqm	3255.00	2804.00	3255.00	3240.00	3687.00	3527.00	3255.00	3676.00	3550.00	3676.00	3975.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.35	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, die cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	each	333.00	298.00	333.00	348.00	382.00	381.00	333.00	398.00	366.00	398.00	414.00
B 8.36	Traffic Cone (Provision of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per BS 873)	each	1487.00	1333.00	1487.00	1560.00	1709.00	1709.00	1487.00	1786.00	1639.00	1786.00	1857.00
B 8.37	Roadside Amenities												
B 8.37.1	Rest Areas (Providing plainly furnished accommodation for rest rooms, dormitories, restaurants, stalls, shops, petrol pump, telephone booth, first aid room, traffic aid post, police assistance booth, including electricity, toilet and sewerage system Pricing may be done based on current plinth area rates approved by PWD/CPWD/MES for a particular zone. Area is required to be assessed for specific location as per actual site conditions)												
B 8.37.2	Parking areas and Bus Laybys for Trucks, Buses and Light vehicles (Pricing of parking areas may be done for the quantities of various items based on the approved dimensions and pavement design for a particular terrain and soil. Rates for items may be from respective chapters.)												
B 8.37.3	Lawn (Providing a lawn planted with grass and its maintenance)												
B 8.38	Rumble Strips (Provision of 15 nos rumble strips covered with premix bituminous carpet, 15-20 mm high at center, 250 mm wide placed at 1 m center to center at approved locations to control speed, marked with white strips of road marking paint.)	sqm											
B 8.39	Policeman Umbrella (Provision of a 2 m high (floor to roof) umbrella for traffic policeman at road crossings, where necessary, installed on a raised platform, built on a central support of a steel pipe 100 mm dia, roof made of 25 mm dia steel pipe to provide covered area of 3 sqm, roofed with CGI sheets, all steel parts to be given 2 coats of paint)	each											

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.40	High Mast Pole Lighting at Interchanges and Flyovers (Providing and erecting a high mast pole lighting with 30 m high hot dip galvanised mast designed to withstand forces exerted with wind speeds of 180 km per hour with 3 seconds gust, as per IS:875 (Part 3) - 1978, fitted with a base flange, door at the base of mast with heavy duty internal lock, lantern carriage, suitable winching arrangement for safe working load of 750 kg and high powered electrically driven power tools for raising and lowering of lantern carriage, flexible 8 core electric cable, lightening conductor, earthing terminal, and fixing 2 nos aviation obstruction lights on top of the mast, all complete as per approved design and drawings This is a specialised work and is generally done by firms who specialise in such jobs. The detailed designs and estimates are submitted by the firms alongwith their tender for checks by the Department. The cost of this work is required to be worked out based on approved design, drawings and estimate of the lowest tender. A separate contract for this work is concluded as the contractors for road and bridge works generally do not undertake such jobs.)												
B 8.41	Toll Plaza (The construction, operation and maintenance of Toll Plaza can be broken into separate items of work as under based on the approved design and drawings:-)												
B 8.42	Safety Devices and signs in Construction Zones (Provision and fixing of traffic signs for limited period at suitable locations in construction zone comprising of warning zone, approach transition zone, working zone and terminal transition zone with a minimum distance of 60 cm from the edge of the kerb in case of kerbed roads and 2 to 3 m from the edge of the carriageway in case of un-kerbed roads, the bottom edge of the lowest sign plate to be not less than 2 m above the road level, fixed on 60 mm x 60 mm x 6 mm angle iron post, founded and installed as per approved design and drawings, removed and disposed of after completion of construction work, all as per IRC:SP:55-2001)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 8.43	Portable Barricade in Construction Zone (Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 450, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001)	each	3420.00	3344.00	3420.00	3444.00	3524.00	3494.00	3420.00	3524.00	3420.00	3524.00	3609.00
B 8.44	Permanent Type Barricade in Construction Zone												
B 8.44.1	With Steel Components (Construction of a permanent type barricade made of steel components, 1.5 m high from road level, fitted with 3 horizontal rails 200 mm wide and 4 m long on 50 x 50 x 5 mm angle iron vertical support, painted with yellow and white strips, 150 mm in width at an angle of 450, complete as per IRC:SP:55-2001)	each	5498.00	5382.00	5498.00	5545.00	5669.00	5626.00	5498.00	5675.00	5498.00	5675.00	5807.00
B 8.44.2	With Wooden Components (Construction of a permanent type barricade made of wooden components, 1.5 m high from road level, fitted with 3 horizontal planks 200 mm wide and 3.66 m long on 100 x 100mm wooden vertical post, painted with yellow and white strips, 150 mm in width at an angle of 450, complete as per IRC:SP:55-2001)	each	5604.00	5586.00	5604.00	5586.00	5604.00	5586.00	5604.00	5586.00	5604.00	5586.00	5604.00
B 8.44.3	With Bricks (Construction of a permanent type barricade made with brick work in mud mortar, 1.5 m high, 4 m long, 600 mm thick, plastered with cement mortar 1:6, painted with yellow and white strips)	each	19492.00	14093.00	19492.00	23570.00	29913.00	28315.00	19492.00	31160.00	19988.00	31160.00	37961.00
B 8.45	Drum Delineator in Construction Zone (Provision of metal drum/empty bitumen drum delineator, 300 mm in diameter, 800 mm high, filled with earth for stability, painted in circumferential strips of alternate black and white 100 mm wide fitted with reflectors 3 Nos of 7.5 cm dia, all as per IRC:SP:55-2001)	each	656.00	612.00	656.00	655.00	698.00	682.00	656.00	697.00	684.00	697.00	726.00
B 8.46	Flagman (Positioning of a smart flagman with a yellow vest and a yellow cap and a red flag 600 x 600 mm securely fastened to a staff 1 m in length for guiding the traffic)	each	416.00	347.00	416.00	360.00	428.00	368.00	416.00	372.00	424.00	372.00	436.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 9.0 PIPE CULVERTS													
B 9.1	PCC 1:3:6 in Foundation (Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)	cum	6603.00	6034.00	6603.00	6630.00	7226.00	6977.00	6603.00	7169.00	6827.00	7169.00	7674.00
B 9.2	Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row . (Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)												
B 9.2.1	1000 mm dia	metre	14195.00	12725.00	14195.00	14871.00	16304.00	16284.00	14195.00	17015.00	15631.00	17015.00	17706.00
B 9.2.2	1200 mm dia	metre	14908.00	13362.00	14908.00	15606.00	17114.00	17084.00	14908.00	17849.00	16409.00	17849.00	18581.00
B 9.3	Laying Reinforced Cement Concrete Pipe NP 4 /prestrssed concrete pipe on first class bedding in double row . (Laying Reinforced cement concrete pipe NP4 /prestrssed concrete pipe for culverts on first class bedding of granular material in double row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)												
B 9.3.1	1000 mm dia	metre	29524.00	26466.00	29524.00	30931.00	33911.00	33870.00	29524.00	35393.00	32511.00	35393.00	36828.00
B 9.3.2	1200 mm dia	metre	31031.00	27813.00	31031.00	32487.00	35624.00	35563.00	31031.00	37157.00	34156.00	37157.00	38678.00
B 9.4	Laying Reinforced Cement Concrete Pipe NP 3/ prestressed concrete pipe on first class bedding in single row . (Laying Reinforced cement concrete pipe NP3/prestrssed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)												
B 9.4.1	300 mm dia	metre	2609.37	2544.08	2609.37	2616.62	2609.37	2805.23	2609.37	2732.69	2609.37	2638.38	2805.23
B 9.4.2	450mm dia	metre	3446.55	3348.63	3446.55	3457.43	3446.55	3740.35	3446.55	3631.54	3446.55	3490.08	3740.35
B 9.4.3	600mm dia	metre	4195.74	4065.17	4195.74	4210.25	4195.74	4587.46	4195.74	4442.38	4195.74	4253.77	4587.46
B 9.4.4	750mm dia	metre	4807.43	4644.21	4807.43	4825.56	4807.43	5297.08	4807.43	5115.73	4807.43	4879.97	5297.08
B 9.4.5	900mm dia	metre	5518.11	5322.25	5518.11	5539.86	5518.11	6105.70	5518.11	5888.07	5518.11	5605.16	6105.70
B 9.4.6	1000 mm dia	metre	6869.11	6455.63	6869.11	6915.06	6869.11	8109.57	6869.11	7650.14	6869.11	7052.89	8109.57

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 10.0 MAINTENANCE OF ROADS													
B 10.1	Restoration of Rain Cuts (Restoration of rain cuts with soil, moorum, gravel or a mixture of these, clearing the loose soil, benching for 300 mm width, laying fresh material in layers not exceeding 250 mm and compacting with plate compactor or power rammers to restore the original alignment, levels and slopes)	cum	383.00	367.00	383.00	372.00	387.00	375.00	383.00	377.00	386.00	377.00	390.00
B 10.2	Maintenance of Earthen Shoulder (filling with fresh soil) (Making up loss of material/ irregularities on shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.)	sqm	103.00	97.00	103.00	102.00	108.00	105.00	103.00	107.00	107.00	107.00	111.00
B 10.3	Maintenance of Earth Shoulder (stripping excess soil) (Stripping excess soil from the shoulder surface to achieve the approved level and compacting with plate compactor)	sqm	17.20	14.70	17.20	16.10	18.50	17.00	17.20	18.00	18.10	18.00	19.50
B 10.4	Filling Pot- holes and Patch Repairs with open - graded Premix surfacing, 20mm. (Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 503, back filling the pot holes with hot bituminous material, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2)	sqm	178.00	174.00	178.00	179.00	182.00	181.00	178.00	183.00	178.00	183.00	186.00
B 10.5	Filling Pot- holes and Patch Repairs with - Bituminous concrete, 40mm. (Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 503, back filling the pot holes with hot bituminous material as per clause 504, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2)												
B 10.5.1	For grading I Material	sqm	462.00	451.00	462.00	467.00	478.00	476.00	462.00	481.00	465.00	481.00	491.00
B 10.5.2	For grading II Material	sqm	478.00	465.00	478.00	485.00	500.00	496.00	478.00	503.00	481.00	503.00	516.00
B 10.6	Crack Filling (Filling of crack using slow - curing bitumen emulsion and applying crusher dust in case crack are wider than	metre	5.30	5.10	5.30	5.30	5.50	5.40	5.30	5.50	5.30	5.50	5.70
B 10.7	Dusting (Applying crusher dust to areas of road where bleeding of excess bitumen has occurred.)	sqm	3.28	3.20	3.28	3.25	3.28	3.20	3.28	3.25	3.28	3.25	3.28
B 10.8	Fog Seal (ref item 5.17)	sqm	62.00	61.00	62.00	63.00	65.00	64.00	62.00	66.00	62.00	66.00	67.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 10.9	Crack Prevention courses. (ref item 5.21)												
B 10.9.1	Stress Absorbing Membrane (SAM) crack width less than 6mm	sqm	110.00	108.00	110.00	111.00	113.00	113.00	110.00	114.00	110.00	114.00	116.00
B 10.9.2	Stress Absorbing Membrane (SAM) with crack width 6 mm to 9	sqm	145.00	142.00	145.00	147.00	149.00	149.00	145.00	150.00	145.00	150.00	153.00
B 10.9.3	Stress Absorbing Membrane (SAM) crack width above 9 mm and cracked area above 50 %	sqm	95.30	90.00	95.30	97.90	103.40	103.00	95.30	105.00	99.00	105.00	109.00
B 10.9.4	Bitumen Impregnated Geotextile	sqm	107.00	103.00	107.00	109.00	113.00	113.00	107.00	115.00	109.00	115.00	118.00
B 10.10	Slurry Seal (ref item 5.15)												
B 10.10.1	5 mm thickness	sqm	107.00	103.00	107.00	109.00	113.00	113.00	107.00	115.00	109.00	115.00	118.00
B 10.10.2	3 mm thickness	sqm	73.00	71.00	73.00	75.00	78.00	77.00	73.00	78.00	74.00	78.00	81.00
B 10.10.3	1.5 mm thickness	sqm	42.00	41.00	42.00	42.00	44.00	43.00	42.00	44.00	42.00	44.00	45.00
B 10.11	Surface Dressing for maintance works. (ref item 5.9)												
B 10.11.1	19 mm nominal chipping size	sqm	110.00	108.00	110.00	112.00	114.00	113.00	110.00	114.00	111.00	114.00	117.00
B 10.11.2	13 mm nominal size chipping	sqm	88.00	86.00	88.00	89.00	91.00	91.00	88.00	92.00	89.00	92.00	94.00
B 10.12	Repair of joint Grooves with Epoxy Mortar Repair of spalled joint grooves of contraction joints, longitudinal joints and expansion joints in concrete pavements using epoxy mortar or epoxy concrete)	metre	751.00	747.00	751.00	748.00	752.00	749.00	751.00	749.00	751.00	749.00	753.00
B 10.13	Repair of old Joints Sealant (Removal of existing sealant and re sealing of contraction, longitudinal or expansion joints in concrete pavement with fresh sealant material)	metre	80.00	76.00	80.00	78.00	82.00	80.00	80.00	80.00	83.00	80.00	84.00
B 10.14	Hill Side Drain Clearance (Removal of earth from the choked hill side drain and disposing it on the valley side manually)	metre	33.00	27.00	33.00	27.00	33.00	27.00	33.00	27.00	33.00	27.00	33.00
B 10.15	Land Slide Clearance in soil (Clearance of land slides in soil and ordinary rock by a bull-dozer D 80 A-12, 180 HP and disposal of the same on the valley side)	cum	77.00	69.00	77.00	80.00	88.00	64.00	77.00	91.00	84.00	91.00	95.00
B 10.16	Land slide Clearance in Hard Rock Requiring Blasting (Clearing of land slide in hard rock requiring blasting for 50% of the boulders and disposal of the same on the valley side.)	cum	175.00	165.00	175.00	179.00	190.00	189.00	175.00	194.00	185.00	194.00	200.00
B 10.17	Snow Clearance on Roads with Dozer (Snow clearance from road surface by a bull- dozer 165 Hp and disposing it on the valley side)	cum	5.30	4.80	5.30	5.60	6.10	6.10	5.30	6.30	5.90	6.30	6.60
B 10.18	Snow Clearance on Roads with Snow Blowers (Snow clearance from road surface by a snow blower and disposing on the valley side.)	cum	1.70	1.50	1.70	1.80	1.90	1.90	1.70	2.00	1.90	2.00	2.10

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 11.0 HORTICULTURE													
B 11.1	Spreading of Sludge Farm Yard Manure or/and good Earth (Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm- yard manure or/and good earth to be paid for separately))	cum	21.00	17.00	21.00	17.00	21.00	17.00	21.00	17.00	21.00	17.00	21.00
B 11.2	Grassing with 'Doobs' Grass (Grassing with 'Doobs' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for moving including supplying good earth if needed)												
B 11.2.1	In rows 15 cm apart in either direction	sqm	100.00	89.00	100.00	103.00	114.00	113.00	100.00	118.00	110.00	118.00	124.00
B 11.2.2	In rows 7.5 cm apart in either direction	sqm	193.00	172.00	193.00	200.00	221.00	218.00	193.00	228.00	212.00	228.00	239.00
B 11.3	Making Lawns including Ploughing and Dragging with 'Swagha' Breaking of Clod (Making lawns including ploughing and breaking of clod, removal of rubbish, dressing and supplying doobs grass roots and planting at 15 cm apart, including supplying and spreading of farm yard manure at rate of 0.18 cum per 100 sqm)	sqm	133.00	119.00	133.00	138.00	152.00	151.00	133.00	158.00	146.00	158.00	165.00
B 11.4	Maintenance of Lawns or Turfing of Slopes (Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc)	sqm	444.00	320.00	444.00	17.00	475.00	366.00	444.00	375.00	465.00	375.00	495.00
B 11.5	Turfing Lawns with Fine Grassing including Ploughing, Dressing (Turfing lawns with fine grassing including ploughing, dressing including breaking of clods, removal of rubbish, dressing and supplying doobs grass roots at 10 cm apart, including supplying and spreading of farm yard manure at rate of 0.6 cum per 100 sqm)	sqm	137.00	122.00	137.00	142.00	156.00	155.00	137.00	162.00	150.00	162.00	169.00
B 11.6	Maintenance of Lawns with Fine Grassing for the First Year	sqm	439.00	331.00	439.00	368.00	480.00	393.00	439.00	405.00	467.00	405.00	507.00
B 11.7	Hedge Works												
B 11.7.1	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 metres and supplying and planting hedge plants at 30 cm apart)	metre	209.00	181.00	209.00	205.00	232.00	220.00	209.00	228.00	225.00	228.00	247.00
B 11.7.2	Maintenance of Hedge for one year	metre	263.00	201.00	263.00	213.00	276.00	222.00	263.00	226.00	272.00	226.00	285.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 11.8	Flower works												
B 11.8.1	Planting Flowering Plants and Shrubs in Central Verge	km	48466.00	41596.00	48466.00	44414.00	51346.00	46270.00	48466.00	47231.00	50432.00	47231.00	53261.00
B 11.8.2	Maintenance of Flowering Plants and Shrubs in Central Verge for one Year	km	293010.00	230553.00	293010.00	247787.00	311631.00	259141.00	293010.00	265020.00	305721.00	265020.00	324008.00
B 11.9	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	each	1205.00	928.00	1205.00	976.00	1255.00	1007.00	1205.00	1024.00	1239.00	1024.00	1289.00
B 11.10	Renovation Lawns including, Weeding, Forking the Ground, Top Dressing with Forked Soil (Renovation lawns including, weeding, forking the ground, top dressing with forked soil, watering and maintenance the lawns, for 30 days or more, till the grass forms a thick lawn, free from weeds, and fit for moving and disposal of rubbish as directed, including supplying good earth, if needed but excluding the cost of well decayed farm yard manure)	sqm	24.00	18.00	24.00	18.00	25.00	19.00	24.00	19.00	24.00	19.00	25.00
B 11.11	Supply at Site Well Decayed Farm Yard Manure (Supply at site of work well decayed farm yard manure, from any available source, approved by the engineer in charge including screening and stacking)	cum											
B 11.12	Supply at Site of Work/ Store - Deoiled Neem Cake (Supply at site of work/ store- deoiled neem cake duly packed in used gunny bags)	quintal											
B 11.13	Supplying Sludge (Supplying sludge duly stacked at site/ store)	cum											
B 11.14	Half Brick Circular Tree Guard, in 2nd class Brick, internal diametre 1.25 metres, and height 1.2 metres, above ground and 0.20 metre below ground (Half brick circular tree guard, in 2nd class brick, internal diametre 1.25 metres, and height 1.2 metres, above ground and 0.20 metre below ground, bottom two courses laid dry, and top three courses in cement mortar 1:6 (1 cement 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete)	each	2441.00	1750.00	2441.00	2974.00	3837.00	3637.00	2441.00	3955.00	2510.00	3955.00	4824.00
B 11.15	Edging with 2nd class Bricks, laid dry lengthwise (Edging with 2nd class bricks, laid dry lengthwise, including excavation, refilling, consolidation, with a hand packing and spreading nearly surplus earth within a lead of 50 metres)	metre	49.00	34.00	49.00	60.00	78.00	74.00	49.00	81.00	50.00	81.00	100.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 11.16	Making Tree Guard 53 cm dia and 1.3 m high as per design from empty bitumen drum (Making tree guard 53 cm dia and 1.3 m high as per design from empty bitumen drum, slit suitably to permit sun and air, (supplied by the department at stock issue rate) including providing and fixing 2 nos MS sheet rings 50 x 0.5 mm with rivets, complete in all respect)	each	10783.00	9679.00	10783.00	11305.00	12381.00	12377.00	10783.00	12931.00	11873.00	12931.00	13443.00
B 11.17	Making Tree Guard 53 cm dia and 2 metres high as per design from empty bitumen drums (Making tree guard 53 cm dia and 2 metres high as per design from empty bitumen drums, slit suitably to permit sun and air, (supplied by the department at stock issue rate) including providing and fixing four legs 40 cm long of 30 x 3 mm MS riveted to tree guard and providing and fixing 2 nos MS sheet rings 50 x 0.5 mm with rivets complete in all respects)	each	24294.00	21802.00	24294.00	25469.00	27896.00	27883.00	24294.00	29134.00	26750.00	29134.00	30291.00
B 11.18	Wrought Iron and Mild Steel Welded Work (Wrought iron and mild steel welded work) (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately)	quintal	9197.00	8889.00	9197.00	9151.00	9473.00	9283.00	9197.00	9361.00	9197.00	9361.00	9696.00
B 11.19	Tree Guard with MS Iron (Providing and fixing MS iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 Nos (25 x 6 mm) and 8 Nos (25 x 3 mm) vertical MS riveted to 3 Nos (25 x 6 mm) iron rings in two halves, bolted together with 8 mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respects.)	each tree guard	2352.00	2290.00	2352.00	2363.00	2581.00	2552.00	2352.00	2422.00	2354.00	2422.00	2490.00
B 11.20	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 metre square, 2.00 metre high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	each tree guard	3268.00	3143.00	3268.00	3311.00	3566.00	3536.00	3268.00	3462.00	3326.00	3462.00	3562.00
B 11.21	Compensatory Afforestation (Planting trees as compensatory afforestation at the rate of 290 trees per hectare at a spacing of 6 m by grubbing and leveling the ground upto a depth of 150 mm, digging holes 0.9 m dia, 1 m deep, mixing farm yard/sludge manure with soil, planting of sapling 2 m high with 25 cm dia stem, backfilling the hole and watering)	hectare	109392.00	91749.00	109392.00	103353.00	121318.00	110999.00	109392.00	114958.00	117533.00	114958.00	129245.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.0 FOUNDATIONS													
B 12.1	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.)												
B 12.1.1	Ordinary soil												
B 12.1.1.1	Manual Means												
B12.1.1.1.1	upto 3 m depth	cum	111.00	90.00	111.00	90.00	111.00	90.00	111.00	90.00	111.00	90.00	111.00
B12.1.1.1.2	3 m to 6 m depth	cum	143.00	115.00	143.00	115.00	143.00	115.00	143.00	115.00	143.00	115.00	143.00
B12.1.1.1.3	Above 6 m depth	cum	190.00	154.00	190.00	154.00	190.00	154.00	190.00	154.00	190.00	154.00	190.00
B 12.1.1.2	Mechanical Means												
B12.1.1.2.1	Depth upto 3 m	cum	49.00	43.00	49.00	49.00	55.00	53.00	49.00	55.00	53.00	55.00	59.00
B12.1.1.2.2	Depth 3 m to 6 m	cum	56.00	49.00	56.00	56.00	63.00	61.00	56.00	63.00	61.00	63.00	67.00
B12.1.1.2.3	Depth above 6m	cum	69.00	60.00	69.00	68.00	77.00	74.00	69.00	76.00	74.00	76.00	82.00
B 12.1.2	Ordinary rock (not requiring blasting)												
B 12.1.2.1	Manual Means												
B12.1.2.1.1	Depth upto 3 m	cum	159.00	128.00	159.00	128.00	159.00	128.00	159.00	128.00	159.00	128.00	159.00
B 12.1.2.2	Mechanical Means	cum	62.00	55.00	62.00	63.00	70.00	68.00	62.00	70.00	67.00	70.00	75.00
B 12.1.3	Hard rock (requiring blasting)												
B 12.1.3.1	Manual Means	cum	489.00	434.00	489.00	444.00	499.00	450.00	489.00	454.00	495.00	454.00	505.00
B 12.1.4	Hard rock (blasting prohibited)												
B 12.1.4.1	Mechanical Means	cum	397.00	342.00	397.00	378.00	432.00	402.00	397.00	414.00	421.00	414.00	456.00
B 12.1.5	Marshy soil												
B 12.1.5.1	upto 3 m depth												
B12.1.5.1.1	Manual means	cum	432.00	360.00	432.00	377.00	449.00	389.00	432.00	395.00	444.00	395.00	461.00
B 12.1.5.1.2	Mechanical Means	cum	163.00	148.00	163.00	152.00	167.00	155.00	163.00	156.00	166.00	156.00	170.00
B 12.1.6	Back Filling in Marshy Foundation Pits	cum	302.00	257.00	302.00	279.00	323.00	293.00	302.00	301.00	317.00	301.00	338.00
B 12.2	Filling Annular Space Around Footing in Rock (Lean cement concrete 1:3:6 nominal mix. Rate may be taken as per items 13.4.)												
B 12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification	cum	4044.00	1862.00	4044.00	5468.00	7831.00	7272.00	4044.00	8354.00	4044.00	8354.00	10897.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.4	PCC 1:3:6 in Foundation (Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)	cum	6545.00	5989.00	6545.00	6582.00	7165.00	6924.00	6545.00	7114.00	6758.00	7114.00	7613.00
B 12.5	Brick masonry work in cement mortar 1:3 in foundation complete excluding pointing and plastering, as per drawing and technical specifications	cum	7317.00	5611.00	7317.00	8488.00	10819.00	10285.00	7317.00	10811.00	317.00	10811.00	12895.00
B 12.6													
B 12.6.1	Cement mortar1:3 (1cement :3 sand)	cum	6704.00	6115.00	6704.00	7022.00	7661.00	7533.00	6704.00	7820.00	6971.00	7820.00	8362.00
B 12.6.2	Cement mortar1:2 (1cement :2 sand)	cum	7747.00	7089.00	7747.00	8131.00	8856.00	8702.00	7747.00	9028.00	7995.00	9028.00	9679.00
B 12.6.3	Cement mortar1:4 (1cement :4 sand)	cum	5996.00	5454.00	5996.00	6270.00	6849.00	6739.00	5996.00	6999.00	6273.00	6999.00	7468.00
B 12.6.4	Cement mortar1:6 (1cement :6 sand)	cum	5549.00	5025.00	5549.00	5791.00	6337.00	6246.00	5549.00	6494.00	5869.00	6494.00	6898.00
B 12.7	Stone masonry work in cement mortar 1:3 in foundation complete as drawing and Technical Specification												
B 12.7.1	Square Rubble Coursed rubble masonry(first sort)	cum	6608.00	6246.00	6608.00	6633.00	7448.00	7283.00	6608.00	6980.00	6743.00	6980.00	7304.00
B 12.7.2	Random Rubble Masonry	cum	6433.00	6064.00	6433.00	6462.00	7300.00	7133.00	6433.00	6819.00	6572.00	6819.00	7149.00
B 12.8	Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications												
B 12.8.1	PCC Grade M15	cum	6837.00	6379.00	6837.00	7001.00	7491.00	7351.00	6837.00	7548.00	7021.00	7548.00	7971.00
B 12.8.2	PCC Grade M20	cum	7803.00	7274.00	7803.00	8019.00	8590.00	8436.00	7803.00	8671.00	8012.00	8671.00	9169.00
B 12.8.3	RCC Grade M20												
B 12.8.3.1	Using concrete mixer	cum	7973.00	7442.00	7973.00	8192.00	8766.00	8611.00	7973.00	8847.00	8183.00	8847.00	9348.00
B 12.8.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	8699.00	8145.00	8699.00	9037.00	9630.00	9550.00	8699.00	9835.00	9004.00	9835.00	10305.00
B 12.8.4	PCC Grade M25												
B 12.8.4.1	Using concrete Mixer	cum	8346.00	7777.00	8346.00	8595.00	9214.00	9049.00	8346.00	9306.00	8559.00	9306.00	9855.00
B 12.8.4.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9060.00	8469.00	9060.00	9430.00	10067.00	9977.00	9060.00	10282.00	9368.00	10282.00	10801.00
B 12.8.5	RCC Grade M25												
B 12.8.5.1	Using concrete Mixer	cum	8523.00	7951.00	8523.00	8775.00	9397.00	9231.00	8523.00	9490.00	8736.00	9490.00	10042.00
B 12.8.5.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9246.00	8652.00	9246.00	9618.00	10259.00	10168.00	9246.00	10475.00	9555.00	10475.00	10997.00
B 12.8.6	PCC Grade M30												
B 12.8.6.1	Using concrete Mixer	cum	8386.00	7814.00	8386.00	8639.00	9261.00	9095.00	8386.00	9354.00	8599.00	9354.00	9908.00
B 12.8.6.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9093.00	8499.00	9093.00	9465.00	10106.00	10014.00	9093.00	10321.00	9401.00	10321.00	10845.00
B 12.8.7	RCC Grade M30												
B 12.8.7.1	Using concrete Mixer	cum	8536.00	7963.00	8536.00	8790.00	9413.00	9247.00	8536.00	9506.00	8749.00	9506.00	10061.00
B 12.8.7.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9259.00	8664.00	9259.00	9633.00	10275.00	10183.00	9259.00	10491.00	9567.00	10491.00	11016.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.8.8	Grade M35												
B 12.8.8.1	Using concrete Mixer	cum	8649.00	8068.00	8649.00	8911.00	9545.00	9376.00	8649.00	9641.00	8862.00	9641.00	10207.00
B 12.8.8.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9369.00	8766.00	9369.00	9750.00	10403.00	10308.00	9369.00	10621.00	9677.00	10621.00	11157.00
B 12.9	Providing and constructing temporary island 16 m diameter for construction of well foundation for 8m dia. Well.												
B 12.9.1	Assuming depth of water 1.0m and height of island to be 1.25m	each	113974.00	102578.00	113974.00	118082.00	129205.00	128297.00	113974.00	133587.00	124371.00	133587.00	139328.00
B 12.9.2	Assuming depth of water 4.0 m and height of island 4.5 m.	each	833839.00	746740.00	833839.00	862661.00	947714.00	939032.00	833839.00	978582.00	911574.00	978582.00	1023404.00
B 12.9.3	Providing and constructing one span service road to reach island location from one pier location to another pier location	metre	3982.00	3770.00	3982.00	4066.00	4273.00	4260.00	3982.00	4361.00	4180.00	4361.00	4466.00
B 12.10	Providing and laying cutting edge of mild steel weighing 40 kg per metre for well foundation complete as per drawing and technical specification.	tonne	94128.00	91421.00	94128.00	94270.00	97119.00	95694.00	94128.00	96548.00	94128.00	96548.00	99540.00
B 12.11	Plain/Reinforced cement concrete, in well foundation complete as per drawing and technical specification												
B 12.11.1	Well curb												
B12.11.1.1	RCC M20 Grade												
B12.11.1.1.1	Using concrete mixer	cum	9201.00	8587.00	9201.00	9453.00	9911.00	9734.00	9201.00	10209.00	9442.00	10209.00	10787.00
B12.11.1.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10038.00	9399.00	10038.00	10428.00	11112.00	11019.00	10038.00	11349.00	10389.00	11349.00	11892.00
B12.11.1.2	RCC M25 Grade												
B12.11.1.2.1	Using concrete mixer	cum	9859.00	9197.00	9859.00	10149.00	10870.00	10678.00	9859.00	10977.00	10104.00	10977.00	11616.00
B12.11.1.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	11347.00	10594.00	11347.00	11811.00	12618.00	12512.00	11347.00	12901.00	11771.00	12901.00	13536.00
B12.11.1.3	RCC M35 Grade												
B12.11.1.3.1	Using concrete mixer	cum	10078.00	9400.00	10078.00	10382.00	11121.00	10925.00	10078.00	11233.00	10325.00	11233.00	11892.00
B12.11.1.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	11600.00	10826.00	11600.00	12078.00	12905.00	12796.00	11600.00	13196.00	12027.00	13196.00	12857.00
B 12.11.2	Well steining												
B12.11.2.1	PCC M15 Grade	cum	7231.00	6748.00	7231.00	7406.00	7925.00	7776.00	7231.00	7985.00	7427.00	7985.00	8432.00
B12.11.2.2	PCC M20 Grade	cum	8254.00	7695.00	8254.00	8482.00	9085.00	8923.00	8254.00	9172.00	8476.00	9172.00	9698.00
B12.11.2.3	RCC M20 Grade												
B12.11.2.3.1	Using concrete mixer	cum	8435.00	7872.00	8435.00	8665.00	9272.00	9108.00	8435.00	9358.00	8655.00	9358.00	9888.00
B12.11.2.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9201.00	8616.00	9201.00	9559.00	10186.00	10101.00	9201.00	10403.00	9523.00	10403.00	10901.00
B12.11.2.4	PCC M25 Grade												
B12.11.2.4.1	Using concrete mixer	cum	8850.00	8246.00	8850.00	9113.00	9770.00	9594.00	8850.00	9867.00	9075.00	9867.00	10450.00
B12.11.2.4.1	With Batching Plant, Transit Mixer and Concrete Pump	cum	9606.00	8979.00	9606.00	9998.00	10675.00	10579.00	9606.00	10902.00	9933.00	10902.00	11453.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.11.2.5	RCC M25 Grade												
B12.11.2.5.1	Using concrete mixer	cum	9037.00	8431.00	9037.00	9304.00	9964.00	9788.00	9037.00	10062.00	9262.00	10062.00	10648.00
B12.11.2.5.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10402.00	9711.00	10402.00	10826.00	11566.00	11469.00	10402.00	11826.00	10790.00	11826.00	12408.00
B12.11.2.6	PCC M30 Grade												
B12.11.2.6.1	Using concrete mixer	cum	8914.00	8305.00	8914.00	9183.00	9843.00	9667.00	8914.00	9943.00	9140.00	9943.00	10531.00
B12.11.2.6.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9664.00	9033.00	9664.00	10060.00	10741.00	10644.00	9664.00	10970.00	9992.00	10970.00	11526.00
B12.11.2.7	RCC M30 Grade												
B12.11.2.7.1	Using concrete mixer	cum	9073.00	8464.00	9073.00	9342.00	10005.00	10014.00	9073.00	10297.00	9465.00	10297.00	10901.00
B12.11.2.7.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9841.00	9209.00	9841.00	10238.00	10921.00	10824.00	9841.00	11150.00	10169.00	11150.00	11707.00
B12.11.2.8	RCC M35 Grade												
B12.11.2.8.1	Using concrete mixer	cum	9238.00	8617.00	9238.00	9517.00	10194.00	10014.00	9238.00	10297.00	9465.00	10297.00	10901.00
B12.11.2.8.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10633.00	9924.00	10633.00	11071.00	11830.00	11730.00	10633.00	12096.00	11025.00	12096.00	12699.00
B12.11.2.9	RCC M40 Grade	cum	10729.00	10013.00	10729.00	11172.00	11941.00	11838.00	10729.00	12208.00	11123.00	12208.00	12820.00
B 12.11.3	Bottom Plug												
B12.11.3.1	PCC Grade M20												
B12.11.3.1.1	Using concrete mixer	cum	8834.00	8210.00	8834.00	9103.00	9772.00	9611.00	8834.00	9895.00	9118.00	9895.00	10455.00
B12.11.3.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9384.00	8770.00	9384.00	9759.00	10414.00	10329.00	9384.00	10645.00	9732.00	10645.00	11159.00
B12.11.3.2	PCC Grade M25												
B12.11.3.2.1	Using concrete mixer	cum	9207.00	8553.00	9207.00	9497.00	10199.00	10032.00	9207.00	10331.00	9500.00	10331.00	10923.00
B12.11.3.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9753.00	9110.00	9753.00	10149.00	10838.00	10746.00	9753.00	11078.00	10110.00	11078.00	11624.00
B12.11.3.3	PCC M30 Grade												
B12.11.3.3.1	Using concrete mixer	cum	9268.00	8610.00	9268.00	9562.00	10269.00	10101.00	9268.00	10403.00	9562.00	10403.00	11001.00
B12.11.3.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9818.00	9170.00	9818.00	10218.00	10912.00	10819.00	9818.00	11154.00	10175.00	11154.00	11706.00
B12.11.3.4	PCC Grade M35												
B12.11.3.4.1	Using concrete mixer	cum	9412.00	8743.00	9412.00	9715.00	10434.00	10263.00	9412.00	10571.00	9707.00	10571.00	11182.00
B12.11.3.4.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9959.00	9301.00	9959.00	10367.00	11073.00	10978.00	9959.00	11318.00	10317.00	11318.00	11883.00
B12.11.4	Intermediate plug												
B12.11.4.1	PCC Grade M20												
B12.11.4.1.1	Using concrete mixer	cum	8453.00	7854.00	8453.00	8711.00	9351.00	9198.00	8453.00	9471.00	8728.00	9471.00	10005.00
B12.11.4.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9006.00	8414.00	9006.00	9367.00	9998.00	9916.00	9006.00	10221.00	9344.00	10221.00	10715.00
B12.11.4.2	PCC Grade M25												
B12.11.4.2.1	Using concrete mixer	cum	8808.00	8181.00	8808.00	9086.00	9759.00	9599.00	8808.00	9887.00	9091.00	9887.00	10452.00
B12.11.4.2.1	With Batching Plant, Transit Mixer and Concrete Pump	cum	9358.00	8739.00	9358.00	9738.00	10401.00	10314.00	9358.00	10633.00	9704.00	10633.00	11156.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.11.4.3	PCC M30 Grade												
B12.11.4.3.1	Using concrete mixer	cum	8867.00	8235.00	8867.00	9148.00	9825.00	9665.00	8867.00	9955.00	9150.00	9955.00	10526.00
B12.11.4.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9420.00	8795.00	9420.00	9803.00	10471.00	10383.00	9420.00	10705.00	9767.00	10705.00	11234.00
B12.11.5	Top plug												
B12.11.5.1	PCC Grade M15												
B12.11.5.1.1	Using concrete mixer	cum	6574.00	6135.00	6574.00	6732.00	7204.00	7069.00	6574.00	7259.00	6752.00	7259.00	7665.00
B12.11.5.2	PCC Grade M20												
B12.11.5.2.1	Using concrete mixer	cum	7503.00	6995.00	7503.00	7711.00	8259.00	8112.00	7503.00	8338.00	7705.00	8338.00	8816.00
B12.11.5.3	PCC Grade M25												
B12.11.5.3.1	Using concrete mixer	cum	8045.00	7496.00	8045.00	8285.00	8881.00	8722.00	8045.00	8970.00	8250.00	8970.00	9500.00
B12.11.5.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	8733.00	8163.00	8733.00	9090.00	9704.00	9617.00	8733.00	9911.00	9030.00	9911.00	10412.00
B12.11.5.4	PCC M30 Grade												
B12.11.5.4.1	Using concrete mixer	cum	8103.00	7550.00	8103.00	8348.00	8948.00	18889.00	8103.00	9039.00	8309.00	9039.00	9574.00
B12.11.5.4.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	8786.00	8212.00	8786.00	9145.00	9765.00	9676.00	8786.00	9973.00	9083.00	9973.00	10479.00
B12.11.6	Well cap												
B12.11.6.1	RCC Grade M20												
B12.11.6.1.1	Using concrete mixer	cum	7912.00	7385.00	7912.00	8127.00	8696.00	8542.00	7912.00	8776.00	8122.00	8776.00	9271.00
B12.11.6.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	8636.00	8087.00	8636.00	8971.00	9558.00	9479.00	8636.00	9762.00	8941.00	9762.00	10226.00
B12.11.6.2	RCC Grade M25												
B12.11.6.2.1	Using concrete mixer	cum	8523.00	7951.00	8523.00	8775.00	9397.00	9231.00	8523.00	9490.00	8736.00	9490.00	10042.00
B12.11.6.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9248.00	8654.00	9248.00	9620.00	10261.00	10170.00	9248.00	10477.00	9556.00	10477.00	11000.00
B12.11.6.3	RCC Grade M30												
B12.11.6.3.1	Using concrete mixer	cum	8536.00	7963.00	8536.00	8790.00	9413.00	9247.00	8536.00	9506.00	8749.00	9506.00	10061.00
B12.11.6.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9259.00	8664.00	9259.00	9632.00	10274.00	10182.00	9259.00	10490.00	9566.00	10490.00	11015.00
B12.11.6.4	RCC Grade M35												
B12.11.6.4.1	Using concrete mixer	cum	8649.00	8068.00	8649.00	8911.00	9545.00	9376.00	8649.00	9641.00	8862.00	9641.00	10207.00
B12.11.6.4.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9369.00	8766.00	9369.00	9750.00	10403.00	10308.00	9369.00	10621.00	9677.00	10621.00	11157.00
B12.11.6.5	RCC M40 Grade												
		cum	10097.00	9422.00	10097.00	10515.00	11239.00	11142.00	10097.00	11490.00	10466.00	11490.00	12068.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.12	Sinking of 6 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.12.1	Sandy soil												
B12.12.1.1	Depth below bed level upto 3.0 M	metre	2189.00	1940.00	2189.00	2129.00	2374.00	2253.00	2189.00	2318.00	2315.00	2318.00	2497.00
B12.12.1.2	Beyond 3m upto 10m depth	metre	3045.00	2703.00	3045.00	2986.00	3323.00	3172.00	3045.00	3269.00	3235.00	3269.00	3508.00
B12.12.1.3	Beyond 10m upto 20m												
B12.12.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	4021.00	3569.00	4021.00	3945.00	4388.00	4191.00	4021.00	4317.00	4273.00	4317.00	4632.00
B12.12.1.4	Beyond 20m upto 30 m												
B12.12.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	7542.00	6695.00	7542.00	7400.00	8230.00	7862.00	7542.00	8099.00	8015.00	8099.00	8688.00
B12.12.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	9051.00	8034.00	9051.00	8880.00	9876.00	9435.00	9051.00	9718.00	9618.00	9718.00	10425.00
B12.12.1.5	Beyond 30m upto 40 m												
B12.12.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	17918.00	15908.00	17918.00	17580.00	19553.00	18680.00	17918.00	19241.00	19042.00	19241.00	20640.00
B12.12.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	21502.00	19089.00	21502.00	21096.00	23464.00	22416.00	21502.00	23090.00	22850.00	23090.00	24768.00
B12.12.2	Clayey soil (6m dia. Well)												
B12.12.2.1	Depth below bed level upto 3.0 M	metre	3045.00	2718.00	3045.00	3001.00	3323.00	3187.00	3045.00	3284.00	3235.00	3284.00	3508.00
B12.12.2.2	Beyond 3m upto 10m depth	metre	6868.00	6133.00	6868.00	6818.00	7541.00	7269.00	6868.00	7502.00	7328.00	7502.00	7988.00
B12.12.2.3	Beyond 10 m upto 20 m												
B12.12.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	9071.00	8100.00	9071.00	9005.00	9960.00	9600.00	9071.00	9908.00	9678.00	9908.00	10548.00
B12.12.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	9524.00	8505.00	9524.00	9455.00	10458.00	10081.00	9524.00	10404.00	10162.00	10404.00	11076.00
B12.12.2.4	Beyond 20m upto 30 m												
B12.12.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	17014.00	15195.00	17014.00	16893.00	18682.00	18008.00	17014.00	18586.00	18151.00	18586.00	19786.00
B12.12.2.4.2	Add 5% of cost for dewatering of the cost, if required	metre	22331.00	19944.00	22331.00	22172.00	24520.00	23635.00	22331.00	24395.00	23823.00	24395.00	25970.00
B12.12.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	21268.00	18994.00	21268.00	21116.00	23352.00	22510.00	21268.00	23233.00	22688.00	23233.00	24733.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.12.2.5	Beyond 30m upto 40 m												
B12.12.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	40424.00	36103.00	40424.00	40135.00	44387.00	42786.00	40424.00	44161.00	43122.00	44161.00	47012.00
B12.12.2.5.2	Add 5% of cost for dewatering, if required	metre	50934.00	45490.00	50934.00	50570.00	55927.00	53911.00	50934.00	55643.00	54334.00	55643.00	59234.00
B12.12.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	48508.00	43324.00	48508.00	48162.00	53264.00	51343.00	48508.00	52993.00	51746.00	52993.00	56414.00
B12.12.3	Soft rock (6m dia well)												
B12.12.3.1	Depth of soft rock strata upto 3m	metre	11843.00	10157.00	11843.00	10771.00	12446.00	11176.00	11843.00	11385.00	12255.00	11385.00	12847.00
B12.12.4	Hard rock (6m dia well)												
B12.12.4.1	Depth of soft rock strata upto 3m	metre	13076.00	11797.00	13076.00	12562.00	13827.00	13064.00	13076.00	13324.00	13582.00	13324.00	14328.00
B12.13	Sinking of 7 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.13.1	Sandy soil												
B12.13.1.1	Depth below bed level upto 3.0 M	metre	6347.00	5636.00	6347.00	6244.00	6945.00	6645.00	6347.00	6852.00	6755.00	6852.00	7342.00
B12.13.1.2	Beyond 3m upto 10m depth	metre	4211.00	3743.00	4211.00	4167.00	4629.00	4447.00	4211.00	4592.00	4496.00	4592.00	4906.00
B12.13.1.3	Beyond 10m upto 20m												
B12.13.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	5562.00	4944.00	5562.00	5504.00	6113.00	5872.00	5562.00	6064.00	5938.00	6064.00	6479.00
B12.13.1.4	Beyond 20m upto 30 m												
B12.13.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	10434.00	9275.00	10434.00	10323.00	11465.00	11014.00	10434.00	11374.00	11136.00	11374.00	12152.00
B12.13.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour) .	metre	12521.00	11130.00	12521.00	12387.00	13757.00	13217.00	12521.00	13649.00	13363.00	13649.00	14583.00
B12.13.1.5	Beyond 30m upto 40 m												
B12.13.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	24791.00	22037.00	24791.00	24526.00	27239.00	26168.00	24791.00	27023.00	26457.00	27023.00	28872.00
B12.13.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	29749.00	26444.00	29749.00	29431.00	32687.00	31401.00	29749.00	32428.00	31749.00	32428.00	34647.00
B12.13.2	Clayey soil (7m dia. Well)												
B12.13.2.1	Depth below bed level upto 3.0 M	metre	4211.00	3743.00	4211.00	4167.00	4629.00	4447.00	4211.00	4592.00	4496.00	4592.00	4906.00
B12.13.2.2	Beyond 3m upto 10m depth	metre	5994.00	5331.00	5994.00	5953.00	6606.00	6364.00	5994.00	6576.00	6411.00	6576.00	7012.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.13.2.3	Beyond 10 m upto 20 m												
B12.13.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	7917.00	7040.00	7917.00	7863.00	8724.00	8404.00	7917.00	8686.00	8468.00	8686.00	9262.00
B12.13.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	8313.00	7393.00	8313.00	8257.00	9160.00	8825.00	8313.00	9121.00	8891.00	9121.00	9725.00
B12.13.2.4	Beyond 20m upto 30 m												
B12.13.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	14850.00	13207.00	14850.00	14750.00	16366.00	15764.00	14850.00	16295.00	15882.00	16295.00	17372.00
B12.13.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	19490.00	17334.00	19490.00	19360.00	21480.00	20691.00	19490.00	21387.00	20846.00	21387.00	22801.00
B12.13.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	18562.00	16509.00	18562.00	18438.00	20457.00	19705.00	18562.00	20369.00	19853.00	20369.00	21715.00
B12.13.2.5	Beyond 30m upto 40 m												
B12.13.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	35280.00	31380.00	35280.00	35046.00	38883.00	37456.00	35280.00	38713.00	37733.00	38713.00	41275.00
B12.13.2.5.2	Add 5% of cost for dewatering, if required	metre	44453.00	39538.00	44453.00	44158.00	48992.00	47195.00	44453.00	48778.00	47544.00	48778.00	52006.00
B12.13.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	42336.00	37656.00	42336.00	42056.00	46659.00	44947.00	42336.00	46456.00	45280.00	46456.00	49529.00
B12.13.3	Soft rock (7m dia well)												
B12.13.3.1	Depth of soft rock strata upto 3m	metre	9342.00	8249.00	9342.00	8925.00	10006.00	9371.00	9342.00	9602.00	9795.00	9602.00	10448.00
B12.13.4	Hard rock (7m dia well)												
B12.13.4.1	Depth upto 3 m	metre	16661.00	14972.00	16661.00	15773.00	17449.00	16298.00	16661.00	16570.00	17187.00	16570.00	17975.00
B 12.14	Sinking of 8 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is from bed												
B12.14.1	Sandy soil												
B12.14.1.1	Depth below bed level upto 3.0 M	metre	3902.00	3465.00	3902.00	3843.00	4273.00	4091.00	3902.00	4220.00	4155.00	4220.00	4519.00
B12.14.1.2	Beyond 3m upto 10m depth	metre	4773.00	4242.00	4773.00	4714.00	5237.00	5025.00	4773.00	5186.00	5090.00	5186.00	5545.00
B12.14.1.3	Beyond 10m upto 20m												
B12.14.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	6304.00	5603.00	6304.00	6227.00	6915.00	6637.00	6304.00	6848.00	6722.00	6848.00	7323.00
B12.14.1.4	Beyond 20m upto 30 m												
B12.14.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	11826.00	10510.00	11826.00	11681.00	12971.00	12450.00	11826.00	12844.00	12610.00	12844.00	13738.00
B12.14.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	14191.00	12612.00	14191.00	14017.00	15565.00	14940.00	14191.00	15413.00	15132.00	15413.00	16485.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.14.1.5	Beyond 30m upto 40 m												
B12.14.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	4157.00	3694.00	4157.00	4106.00	4560.00	4376.00	4157.00	4515.00	4433.00	4515.00	4829.00
B12.14.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	4988.00	4433.00	4988.00	4927.00	5471.00	5252.00	4988.00	5418.00	5319.00	5418.00	5795.00
B12.14.2	12.14.2 Clayey soil (8m dia. Well)												
B12.14.2.1	Depth upto 3.0 M	metre	5147.00	4585.00	5147.00	5103.00	5657.00	5445.00	5147.00	5622.00	5495.00	5622.00	5996.00
B12.14.2.2	Beyond 3m upto 10m depth	metre	7308.00	6512.00	7308.00	7286.00	8068.00	7795.00	7308.00	8059.00	7826.00	8059.00	8573.00
B12.14.2.3	Beyond 10 m upto 20 m												
B12.14.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	9651.00	8601.00	9651.00	9623.00	10656.00	10295.00	9651.00	10643.00	10336.00	10643.00	11321.00
B12.14.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	10134.00	9031.00	10134.00	10104.00	11189.00	10809.00	10134.00	11175.00	10853.00	11175.00	11887.00
B12.14.2.4	Beyond 20m upto 30 m												
B12.14.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	18104.00	16132.00	18104.00	18051.00	19988.00	19310.00	18104.00	19962.00	19388.00	19962.00	21235.00
B12.14.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	23762.00	21174.00	23762.00	23692.00	26235.00	25344.00	23762.00	26200.00	25447.00	26200.00	27871.00
B12.14.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	22630.00	20165.00	22630.00	22564.00	24985.00	24137.00	22630.00	24952.00	24235.00	24952.00	26544.00
B12.14.2.5	Beyond 30m upto 40 m												
B12.14.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	43014.00	38327.00	43014.00	42888.00	47490.00	45879.00	43014.00	47426.00	46063.00	47426.00	50451.00
B12.14.2.5.2	Add 5% of cost for dewatering, if required	metre	54198.00	48292.00	54198.00	54038.00	59838.00	57808.00	54198.00	59757.00	58040.00	59757.00	63569.00
B12.14.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	51617.00	45992.00	51617.00	51465.00	56988.00	55055.00	51617.00	56911.00	55276.00	56911.00	60542.00
B12.14.3	Soft rock (8m dia well)												
B12.14.3.1	Depth in soft rock strata upto 3m	metre	10439.00	9183.00	10439.00	9912.00	11155.00	10392.00	10439.00	10641.00	10928.00	10641.00	11631.00
B12.14.4	Hard rock (8m dia well)												
B12.14.4.1	Depth in hard rock strata upto 3 m	metre	17765.00	15873.00	17765.00	16615.00	18495.00	17100.00	17765.00	17353.00	18249.00	17353.00	18983.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.15	Sinking of 9 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.15.1	12.15.1 Sandy soil												
B12.15.1.1	Depth below bed level upto 3.0 M	metre	3981.00	3529.00	3981.00	3907.00	4352.00	4155.00	3981.00	4284.00	4234.00	4284.00	4598.00
B12.15.1.2	Beyond 3m upto 10m depth	metre	5241.00	4648.00	5241.00	5167.00	5751.00	5509.00	5241.00	5686.00	5589.00	5686.00	6090.00
B12.15.1.3	Beyond 10m upto 20m												
B12.15.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	6921.00	6138.00	6921.00	6824.00	7595.00	7276.00	6921.00	7509.00	7382.00	7509.00	8044.00
B12.15.1.4	Beyond 20m upto 30 m												
B12.15.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	12983.00	11511.00	12983.00	12801.00	14247.00	13648.00	12983.00	14086.00	13848.00	14086.00	15088.00
B12.15.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	15580.00	13813.00	15580.00	15361.00	17097.00	16378.00	15580.00	16903.00	16617.00	16903.00	18105.00
B12.15.1.5	Beyond 30m upto 40 m												
B12.15.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	30846.00	27348.00	30846.00	30412.00	33850.00	32426.00	30846.00	33466.00	32900.00	33466.00	35847.00
B12.15.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	37016.00	32817.00	37016.00	36495.00	40620.00	38911.00	37016.00	40159.00	39480.00	40159.00	43016.00
B12.15.2	Clayey soil (9m dia. Well)												
B12.15.2.1	Depth below bed level upto 3.0 M	metre	5461.00	4867.00	5461.00	5409.00	5994.00	5767.00	5461.00	5952.00	5824.00	5952.00	6348.00
B12.15.2.2	Beyond 3m upto 10m depth	metre	7873.00	7005.00	7873.00	7841.00	8694.00	8391.00	7873.00	8676.00	8433.00	8676.00	9239.00
B12.15.2.3	Beyond 10 m upto 20 m												
B12.15.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	10398.00	9251.00	10398.00	10356.00	11482.00	11083.00	10398.00	11458.00	11138.00	11458.00	12202.00
B12.15.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	10918.00	9713.00	10918.00	10873.00	12056.00	11638.00	10918.00	12031.00	11695.00	12031.00	12813.00
B12.15.2.4	Beyond 20m upto 30 m												
B12.15.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	19507.00	17352.00	19507.00	19424.00	21536.00	20790.00	19507.00	21492.00	20892.00	21492.00	22891.00
B12.15.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	25603.00	22775.00	25603.00	25494.00	28266.00	27286.00	25603.00	28208.00	27421.00	28208.00	30045.00
B12.15.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	24383.00	21690.00	24383.00	24280.00	26920.00	25987.00	24383.00	26865.00	26115.00	26865.00	28614.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.15.2.5	Beyond 30m upto 40 m												
B12.15.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	46347.00	41229.00	46347.00	46144.00	51165.00	49394.00	46347.00	51062.00	49635.00	51062.00	54385.00
B12.15.2.5.2	Add 5% of cost for dewatering, if required	metre	58397.00	51949.00	58397.00	58142.00	64468.00	62237.00	58397.00	64338.00	62540.00	64338.00	68525.00
B12.15.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	55617.00	49475.00	55617.00	55373.00	61398.00	59273.00	55617.00	61275.00	59562.00	61275.00	65262.00
B12.15.3	Soft rock (9m dia well)												
B12.15.3.1	Depth upto 3m	metre	12828.00	11263.00	12828.00	12199.00	13747.00	12815.00	12828.00	13134.00	13455.00	13134.00	14358.00
B12.15.4	Hard rock (9m dia well)												
B12.15.4.1	Depth of hard rock strata upto 3 m	metre	20581.00	18455.00	20581.00	19338.00	21450.00	19915.00	20581.00	20216.00	21157.00	20216.00	22031.00
B 12.16	Sinking of 10 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.16.1	Sandy soil												
B12.16.1.1	Depth below bed level upto 3.0 M	metre	4679.00	4148.00	4679.00	4620.00	5143.00	4931.00	4679.00	5092.00	4996.00	5092.00	5451.00
B12.16.1.2	Beyond 3m upto 10m depth	metre	5562.00	4937.00	5562.00	5480.00	6095.00	5837.00	5562.00	6023.00	5925.00	6023.00	6449.00
B12.16.1.3	Beyond 10m upto 20m												
B12.16.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	7346.00	6520.00	7346.00	7238.00	8049.00	7709.00	7346.00	7954.00	7826.00	7954.00	8517.00
B12.16.1.4	Beyond 20m upto 30 m												
B12.16.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	13780.00	12230.00	13780.00	13577.00	15097.00	14461.00	13780.00	14921.00	14680.00	14921.00	15977.00
B12.16.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	16536.00	14676.00	16536.00	16293.00	18116.00	17354.00	16536.00	17905.00	17616.00	17905.00	19172.00
B12.16.1.5	Beyond 30m upto 40 m												
B12.16.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	32741.00	29055.00	32741.00	32257.00	35869.00	34358.00	32741.00	35450.00	34876.00	35450.00	37959.00
B12.16.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	39289.00	34866.00	39289.00	38709.00	43042.00	41229.00	39289.00	42540.00	41851.00	42540.00	45550.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.16.2	Clayey soil (10m dia. Well)												
B12.16.2.1	Depth below bed level upto 3.0 M	metre	6224.00	5508.00	6224.00	6074.00	6780.00	6447.00	6224.00	6640.00	6604.00	6640.00	7150.00
B12.16.2.2	Beyond 3m upto 10m depth	metre	7985.00	7109.00	7985.00	7912.00	8774.00	8441.00	7985.00	8715.00	8524.00	8715.00	9298.00
B12.16.2.3	Beyond 10 m upto 20 m												
B12.16.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	10545.00	9388.00	10545.00	10450.00	11589.00	11148.00	10545.00	11510.00	11258.00	11510.00	12280.00
B12.16.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	11072.00	9857.00	11072.00	10972.00	12168.00	11706.00	11072.00	12085.00	11821.00	12085.00	12894.00
B12.16.2.4	Beyond 20m upto 30 m												
B12.16.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	19779.00	17608.00	19779.00	19602.00	21737.00	20913.00	19779.00	21590.00	21116.00	21590.00	23033.00
B12.16.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	25960.00	23110.00	25960.00	25728.00	28530.00	27448.00	25960.00	28337.00	27715.00	28337.00	30232.00
B12.16.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	24724.00	22010.00	24724.00	24503.00	27171.00	26141.00	24724.00	26988.00	26395.00	26988.00	28792.00
B12.16.2.5	Beyond 30m upto 40 m												
B12.16.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	46995.00	41834.00	46995.00	46571.00	51643.00	49685.00	46995.00	51294.00	50170.00	51294.00	54725.00
B12.16.2.5.2	Add 5% of cost for dewatering, if required	metre	59213.00	52710.00	59213.00	58680.00	65070.00	62603.00	59213.00	64631.00	63215.00	64631.00	68954.00
B12.16.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	56393.00	50200.00	56393.00	55886.00	61972.00	59622.00	56393.00	61553.00	60205.00	61553.00	65671.00
B12.16.3	Soft rock (10m dia well)												
B12.16.3.1	Depth of soft rock strata upto 3m	metre	13069.00	11453.00	13069.00	12411.00	14011.00	13043.00	13069.00	13369.00	13712.00	13369.00	14636.00
B12.16.4	Hard rock (10m dia well)												
B12.16.4.1	Depth of hard rock strata upto 3 m	metre	22655.00	20282.00	22655.00	21432.00	23787.00	22186.00	22655.00	22578.00	23409.00	22578.00	24544.00
B 12.17	Sinking of 11 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.17.1	Sandy soil												
B12.17.1.1	Depth from bed level upto 3.0 M	metre	10483.00	9317.00	10483.00	10450.00	11595.00	11196.00	10483.00	11582.00	11242.00	11582.00	12334.00
B12.17.1.2	Beyond 3m upto 10m depth	metre	9116.00	8061.00	9116.00	8815.00	9857.00	9313.00	9116.00	9570.00	9622.00	9570.00	10350.00
B12.17.1.3	Beyond 10m upto 20m												
B12.17.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	12040.00	10645.00	12040.00	11643.00	13019.00	12298.00	12040.00	12640.00	12707.00	12640.00	13670.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.17.1.4	Beyond 20m upto 30 m												
B12.17.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	22583.00	19968.00	22583.00	21839.00	24421.00	23068.00	22583.00	23707.00	23835.00	23707.00	25642.00
B12.17.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	27100.00	23962.00	27100.00	26207.00	29305.00	27682.00	27100.00	28448.00	28602.00	28448.00	30770.00
B12.17.1.5	Beyond 30m upto 40 m												
B12.17.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	53656.00	47441.00	53656.00	51887.00	58023.00	54806.00	53656.00	56323.00	56628.00	56323.00	60922.00
B12.17.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	64387.00	56929.00	64387.00	62265.00	69627.00	65767.00	64387.00	67587.00	67954.00	67587.00	73106.00
B12.17.2	Clayey soil (11 m dia. Well)												
B12.17.2.1	Depth from bed level upto 3.0 M	metre	10310.00	9188.00	10310.00	10131.00	11237.00	10753.00	10310.00	11075.00	10943.00	11075.00	11853.00
B12.17.2.2	Beyond 3m upto 10m depth	metre	16640.00	14837.00	16640.00	16473.00	18247.00	17551.00	16640.00	18109.00	17737.00	18109.00	19315.00
B12.17.2.3	Beyond 10 m upto 20 m												
B12.17.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	21976.00	19596.00	21976.00	21756.00	24098.00	23180.00	21976.00	23917.00	23426.00	23917.00	25510.00
B12.17.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	23075.00	20575.00	23075.00	22844.00	25303.00	24339.00	23075.00	25113.00	24597.00	25113.00	26785.00
B12.17.2.4	Beyond 20m upto 30 m												
B12.17.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	41221.00	36758.00	41221.00	40811.00	45201.00	43480.00	41221.00	44861.00	43941.00	44861.00	47850.00
B12.17.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	54103.00	48245.00	54103.00	53564.00	59326.00	57067.00	54103.00	58881.00	57673.00	58881.00	62804.00
B12.17.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	51526.00	45947.00	51526.00	51013.00	56501.00	54350.00	51526.00	56077.00	54927.00	56077.00	59813.00
B12.17.2.5	Beyond 30m upto 40 m												
B12.17.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	97934.00	87330.00	97934.00	96960.00	107391.00	103301.00	97934.00	106586.00	104400.00	106586.00	113686.00
B12.17.2.5.2	Add 5% of cost for dewatering, if required	metre	123396.00	110036.00	123396.00	122170.00	135312.00	130160.00	123396.00	134298.00	131543.00	134298.00	143245.00
B12.17.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	117520.00	104796.00	117520.00	116352.00	128869.00	123962.00	117520.00	127903.00	125280.00	127903.00	136423.00
B12.17.3	Soft rock (11m dia well)												
B12.17.3.1	Depth of soft rock strata upto 3m	metre	29130.00	25500.00	29130.00	27646.00	31237.00	29059.00	29130.00	29791.00	30568.00	29791.00	32638.00
B12.17.4	Hard rock (11m dia well)												
B12.17.4.1	Depth of hard rock upto 3 m	metre	49958.00	44694.00	49958.00	47366.00	52587.00	49117.00	49958.00	50027.00	51711.00	50027.00	54343.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.18	Sinking of 12 m external diameter well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.18.1	Sandy soil												
B12.18.1.1	Depth below bed level upto 3.0 M	metre	22129.00	19630.00	22129.00	21894.00	24354.00	23386.00	22129.00	24159.00	23648.00	24159.00	25833.00
B12.18.1.2	Beyond 3m upto 10m depth	metre	25400.00	22591.00	25400.00	25044.00	27810.00	26660.00	25400.00	27497.00	27045.00	27497.00	29412.00
B12.18.1.3	Beyond 10m upto 20m												
B12.18.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	33546.00	29836.00	33546.00	33075.00	36729.00	35210.00	33546.00	36315.00	35718.00	36315.00	38844.00
B12.18.1.4	Beyond 20m upto 30 m												
B12.18.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	62923.00	55964.00	62923.00	62041.00	68893.00	66045.00	62923.00	68117.00	66996.00	68117.00	72862.00
B12.18.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	75508.00	67157.00	75508.00	74449.00	82672.00	79254.00	75508.00	81741.00	80396.00	81741.00	87435.00
B12.18.1.5	Beyond 30m upto 40 m												
B12.18.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	149494.00	132962.00	149494.00	147401.00	163681.00	156915.00	149494.00	161835.00	159176.00	161835.00	173112.00
B12.18.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	179393.00	159554.00	179393.00	176881.00	196417.00	188298.00	179393.00	194202.00	191011.00	194202.00	207734.00
B12.18.2	Clayey soil (12 m dia. Well)												
B12.18.2.1	Depth below bed level upto 3.0 M	metre	24982.00	22297.00	24982.00	24656.00	27299.00	26210.00	24982.00	27015.00	26564.00	27015.00	28839.00
B12.18.2.2	Beyond 3m upto 10m depth	metre	40114.00	35813.00	40114.00	40024.00	44250.00	42798.00	40114.00	44235.00	42937.00	44235.00	47000.00
B12.18.2.3	Beyond 10 m upto 20 m												
B12.18.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	52977.00	47298.00	52977.00	52858.00	58440.00	56522.00	52977.00	58419.00	56706.00	58419.00	62072.00
B12.18.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	55626.00	49663.00	55626.00	55501.00	61362.00	59349.00	55626.00	61340.00	59542.00	61340.00	65175.00
B12.18.2.4	Beyond 20m upto 30 m												
B12.18.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	99370.00	88718.00	99370.00	99150.00	109617.00	106022.00	99370.00	109579.00	106368.00	109579.00	116430.00
B12.18.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	130424.00	116443.00	130424.00	130134.00	143873.00	139154.00	130424.00	143822.00	139609.00	143822.00	152815.00
B12.18.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	124213.00	110898.00	124213.00	123937.00	137022.00	132528.00	124213.00	136973.00	132960.00	136973.00	145538.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.18.2.5	Beyond 30m upto 40 m												
B12.18.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	236090.00	210781.00	236090.00	235568.00	260435.00	251892.00	236090.00	260343.00	252718.00	260343.00	276620.00
B12.18.2.5.2	Add 5% of cost for dewatering, if required	metre	297473.00	265584.00	297473.00	296815.00	328148.00	317384.00	297473.00	328032.00	318425.00	328032.00	348542.00
B12.18.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	283308.00	252938.00	283308.00	282681.00	312522.00	302270.00	283308.00	312411.00	303262.00	312411.00	331944.00
B12.18.3	Soft rock (12m dia well)												
B12.18.3.1	Depth of soft rock strata upto 3m	metre	67051.00	58730.00	67051.00	63875.00	72105.00	67265.00	67051.00	69021.00	70501.00	69021.00	75465.00
B12.18.4	Hard rock (12m dia well)												
B12.18.4.1	Depth of hard rock strata upto 3 m	metre	110264.00	99055.00	110264.00	105624.00	116726.00	109930.00	110264.00	112166.00	114578.00	112166.00	0.00
B 12.19	Sinking of Twin D Type well (other than pneumatic method of sinking) through all types of strata namely sandy soil, clayey soil and rock as shown against each case, complete as per drawing and technical specifications. Depth of sinking is reckoned from bed level.												
B12.19.1	Sandy soil												
B12.19.1.1	Depth from bed level upto 3.0 M	metre	4989.00	4411.00	4989.00	4930.00	5499.00	5272.00	4989.00	5449.00	5337.00	5449.00	5837.00
B12.19.1.2	Beyond 3m upto 10m depth	metre	5412.00	4794.00	5412.00	5349.00	5957.00	5715.00	5412.00	5904.00	5784.00	5904.00	6319.00
B12.19.1.3	Beyond 10m upto 20m												
B12.19.1.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	7147.00	6332.00	7147.00	7064.00	7866.00	7547.00	7147.00	7797.00	7640.00	7797.00	8345.00
B12.19.1.4	Beyond 20m upto 30 m												
B12.19.1.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	13406.00	11877.00	13406.00	13249.00	14756.00	14155.00	13406.00	14624.00	14332.00	14624.00	15654.00
B12.19.1.4.2	Add 20% of cost for Kentledge including supports, loading arrangement and Labour .	metre	16087.00	14253.00	16087.00	15898.00	17707.00	16986.00	16087.00	17549.00	17199.00	17549.00	18784.00
B12.19.1.5	Beyond 30m upto 40 m												
B12.19.1.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	31851.00	28222.00	31851.00	31479.00	35059.00	33628.00	31851.00	34744.00	34052.00	34744.00	37191.00
B12.19.1.5.2	Add 20% of cost for Kentledge including supports, loading arrangement, and Labour etc.	metre	38222.00	33866.00	38222.00	37774.00	42071.00	40353.00	38222.00	41693.00	40862.00	41693.00	44630.00
B12.19.2	Clayey soil (Twin D Type Well)												
B12.19.2.1	Depth below bed level upto 3.0 M	metre	5928.00	5288.00	5928.00	5877.00	6508.00	6266.00	5928.00	6467.00	6324.00	6467.00	6893.00
B12.19.2.2	Beyond 3m upto 10m depth	metre	8839.00	7870.00	8839.00	8766.00	9719.00	9356.00	8839.00	9662.00	9440.00	9662.00	10304.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B12.19.2.3	Beyond 10 m upto 20 m												
B12.19.2.3.1	Add 5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	11673.00	10393.00	11673.00	11576.00	12836.00	12357.00	11673.00	12760.00	12467.00	12760.00	13609.00
B12.19.2.3.2	Add for dewatering @ 5% of cost, if required.	metre	12257.00	10913.00	12257.00	12155.00	13478.00	12975.00	12257.00	13398.00	13090.00	13398.00	14289.00
B12.19.2.4	Beyond 20m upto 30 m												
B12.19.2.4.1	Add 7.5% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	21898.00	19493.00	21898.00	21714.00	24077.00	23179.00	21898.00	23934.00	23385.00	23934.00	25526.00
B12.19.2.4.2	Add 5% of cost for dewatering on the cost, if required	metre	28741.00	25585.00	28741.00	28500.00	31601.00	30423.00	28741.00	31413.00	30693.00	31413.00	33502.00
B12.19.2.4.3	Add 25% of cost for Kentledge including supports, loading arrangement and Labour).	metre	27372.00	24366.00	27372.00	27143.00	30096.00	28974.00	27372.00	29917.00	29231.00	29917.00	31907.00
B12.19.2.5	Beyond 30m upto 40 m												
B12.19.2.5.1	Add 10% for every additional meter depth of sinking over the rate of sinking for the previous meter	metre	52026.00	46314.00	52026.00	51592.00	57202.00	55070.00	52026.00	56864.00	55559.00	56864.00	60644.00
B12.19.2.5.2	Add 5% of cost for dewatering, if required	metre	65552.00	58356.00	65552.00	65006.00	72074.00	69388.00	65552.00	71648.00	70005.00	71648.00	76411.00
B12.19.2.5.3	Add 20% of cost for Kentledge including supports, loading arrangement and Labour).	metre	62431.00	55577.00	62431.00	61910.00	68642.00	66084.00	62431.00	68236.00	66671.00	68236.00	72772.00
B12.19.3	Soft rock (Twin D Type well)												
B12.19.3.1	Depth of soft rock strata upto 3m	metre	14527.00	12809.00	14527.00	14007.00	15705.00	14797.00	14527.00	15206.00	15331.00	15206.00	16487.00
B12.19.4	Hard rock (Twin D Type well)												
B12.19.4.1	Depth of hard rock strata upto 3 m	metre	23140.00	20675.00	23140.00	21963.00	24407.00	22808.00	23140.00	23246.00	23988.00	23246.00	25253.00
B 12.20	Pneumatic sinking of wells with equipment of approved design, drawing and specifications worked by competent and trained personnel and comprising of compression and decompression chambers, reducers, two air locks separately for men and plant & materials, arrangement for supply of fresh air to working chambers, check valves, exhaust valves, shafts made from steel plates of riveted construction not less than 6 mm thick to withstand an air pressure of 0.50 MPa, controlled blasting of hard rock where required, staircases and 1 m wide landing plate forms with railing, arrangement for compression and decompression, electric lighting of 50 V maximum, proper rooms for rest and medical examinations and compliance with safety precautions as per IS:4138, all as per clause 1207.6 of MoRTH Specifications.												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.21	Sand filling in wells complete as per drawing and technical specifications	cum	4044.00	1862.00	4044.00	5468.00	7831.00	7272.00	4044.00	8354.00	4044.00	8354.00	10897.00
B 12.22	Providing steel liner 10 mm thick for curbs and 6mm thick for steining of wells including fabricating and setting out as per detailed drawing	tonne	86088.00	83882.00	86088.00	86551.00	88890.00	87885.00	86088.00	88685.00	86088.00	88685.00	91158.00
B 12.23	Bored cast-in-situ M35 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 m. (Pile diameter-750 mm)	metre	8119.00	7441.00	8119.00	8463.00	7906.00	7833.00	8119.00	9434.00	8647.00	9434.00	9549.00
B 12.24	Bored cast-in-situ M35 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 m. (Pile diameter-1000 mm)	metre	13690.00	12563.00	13690.00	14266.00	13199.00	13070.00	13690.00	15879.00	14552.00	15879.00	16046.00
B 12.25	Bored cast-in-situ M35 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 m. (Pile diameter-1200 mm)	metre	18015.00	16570.00	18015.00	18767.00	20249.00	20112.00	18015.00	20835.00	19085.00	20835.00	20992.00
B 12.26	Driven cast-in-place vertical M35 grade R.C.C. pile excluding reinforcement complete as per drawing and & Technical Specification (Pile diameter - 750 mm)	metre	5048.00	4699.00	5048.00	5250.00	5619.00	5572.00	5048.00	5749.00	5257.00	5749.00	5709.00
B 12.27	Driven cast-in-place vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Pile diameter - 1000 mm)	metre	8708.00	8111.00	8708.00	9056.00	9690.00	9606.00	8708.00	9910.00	9058.00	9910.00	9828.00
B 12.28	Driven cast-in-place vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Pile diameter - 1200 mm)	metre	12585.00	11720.00	12585.00	13085.00	14003.00	13880.00	12585.00	14319.00	13092.00	14319.00	14204.00
B 12.29	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Pile Diameter=500 mm)	metre	2618.00	2433.00	2618.00	2721.00	2915.00	2892.00	2618.00	2986.00	2739.00	2986.00	3126.00
B 12.30	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Pile Diameter=750 mm)	metre	4948.00	4609.00	4948.00	5145.00	5504.00	5457.00	4948.00	5629.00	5148.00	5629.00	5905.00
B 12.31	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Pile Diameter=1000 mm)	metre	8526.00	7946.00	8526.00	8866.00	9483.00	9400.00	8526.00	9695.00	8860.00	9695.00	10174.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 12.32	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Size of pile - 300 mm x 300 mm)	metre	1586.00	1468.00	1586.00	1647.00	1768.00	1755.00	1586.00	1814.00	1671.00	1814.00	1895.00
B 12.33	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Size of pile - 500 mm x 500 mm)	metre	3089.00	2872.00	3089.00	3210.00	3439.00	3409.00	3089.00	3519.00	3225.00	3519.00	3688.00
B 12.34	Driven precast vertical M35 grade R.C.C. piles excluding reinforcement complete as per drawing and & Technical Specification (Size of pile - 750 mm x 750 mm)	metre	6236.00	5811.00	6236.00	6482.00	6934.00	6873.00	6236.00	7089.00	6483.00	7089.00	7437.00
B 12.35	Driven vertical steel piles complete as per drawing and & Technical Specification (Section of the pile - H Section steel column 400 x 250 mm (ISHB Series))	metre	6235.00	6091.00	6235.00	6323.00	6477.00	6443.00	6235.00	6514.00	6250.00	6514.00	6670.00
B 12.36	Driven vertical steel piles complete as per drawing and & Technical Specification (Section of the pile - H Section steel column 450 x 250 mm (ISHB Series))	metre	7030.00	6867.00	7030.00	7130.00	7304.00	7265.00	7030.00	7345.00	7048.00	7345.00	7522.00
B 12.37	Pile load test on single vertical pile in accordance with IS:2911												
B 12.38	Cement concrete for reinforced concrete in pile cap complete as per drawing and Technical Specification												
B 12.38.1	RCC Grade M20												
B12.38.1.1	Using Concrete Mixer	cum	7934.00	7403.00	7934.00	8145.00	8717.00	8560.00	7934.00	8794.00	8144.00	8794.00	9293.00
B12.38.1.2	Using Batching Plant, Transit Mixer and Concrete Pump	cum	8668.00	8114.00	8668.00	8998.00	9592.00	9507.00	8668.00	9790.00	8973.00	9790.00	10260.00
B 12.38.2	RCC Grade M25												
B12.38.2.1	Using concrete mixer.	cum	8525.00	7950.00	8525.00	8771.00	9395.00	9225.00	8525.00	9483.00	8738.00	9483.00	10037.00
B12.38.2.2	Using Batching Plant, Transit Mixer and Concrete Pump	cum	9242.00	8646.00	9242.00	9606.00	10249.00	10153.00	9242.00	10458.00	9549.00	10458.00	10983.00
B 12.38.3	RCC Grade M30												
B12.38.3.1	Using concrete mixer.	cum	8599.00	8019.00	8599.00	8850.00	9480.00	9309.00	8599.00	9570.00	8813.00	9570.00	10131.00
B12.38.3.2	Using Batching Plant, Transit Mixer and Concrete Pump	cum	9333.00	8730.00	9333.00	9704.00	10354.00	10257.00	9333.00	10566.00	9643.00	10566.00	11099.00
B 12.38.4	RCC Grade M35												
B12.38.4.1	Using concrete mixer.	cum	8755.00	8164.00	8755.00	9015.00	9659.00	9485.00	8755.00	9752.00	8970.00	9752.00	10328.00
B12.38.4.2	Using Batching Plant, Transit Mixer and Concrete Pump	cum	9472.00	8859.00	9472.00	9851.00	10514.00	10413.00	9472.00	10727.00	9781.00	10727.00	11274.00
B 12.39	Levelling course for Pile cap	cum	6765.00	6305.00	6765.00	6932.00	7423.00	7288.00	6765.00	7487.00	6962.00	7487.00	7903.00
B 12.40	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications	tonne	68717.00	68312.00	68717.00	69145.00	70664.00	70044.00	68717.00	70579.00	68844.00	70579.00	72162.00
B 12.41	Supplying, fitting and placing un-coated Mild steel reinforcement complete in foundation as per drawing and technical specification	tonne	68582.00	66623.00	68582.00	69225.00	71311.00	70537.00	68582.00	71320.00	68624.00	71320.00	73511.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 13.0 SUB-STRUCTURE													
B 13.1	Brick masonry work in 1:3 in sub-structure complete excluding pointing and plastering, as per drawing and technical specifications	cum	7415.00	5675.00	7415.00	8696.00	11092.00	10583.00	7415.00	11135.00	7633.00	11135.00	13272.00
B 13.2	Pointing with cement mortar (1:3) on brick work in substructure as per Technical specifications	sqm	59.10	53.90	59.10	57.20	66.90	63.30	59.10	60.00	60.00	60.00	65.00
B 13.3	Plastering with cement mortar (1:3) on brick work in sub-structure as per Technical specifications	sqm	151.50	138.20	151.50	154.00	168.20	183.50	151.50	168.00	156.00	168.00	180.00
B 13.4	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications												
B 13.4.1	Random Rubble Masonry	cum	6485.00	6121.00	6485.00	6562.00	7450.00	7310.00	6485.00	6957.00	6638.00	6957.00	7279.00
B 13.4.2	Coursed rubble masonry (first sort)	cum	6687.00	6326.00	6687.00	6733.00	7570.00	7416.00	6687.00	7097.00	6829.00	7097.00	7418.00
B 13.4.3	Ashlar masonry (first sort)	cum	7848.00	7402.00	7848.00	7842.00	8813.00	8590.00	7848.00	8237.00	8001.00	8237.00	8642.00
B13.5	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications												
B13.5.1	PCC Grade M15												
B13.5.1.1	Height upto 5m	cum	7231.00	6748.00	7231.00	7406.00	7925.00	7776.00	7231.00	7985.00	7427.00	7985.00	8432.00
B13.5.2	PCC Grade M20												
B13.5.2.1	Height upto 5m	cum	8254.00	7695.00	8254.00	8482.00	9085.00	8923.00	8254.00	9172.00	8476.00	9172.00	9698.00
B13.5.3	PCC Grade M25												
B13.5.3.1	Height upto 5m												
B13.5.3.1.1	Using concrete Mixer	cum	8850.00	8246.00	8850.00	9113.00	9770.00	9594.00	8850.00	9867.00	9075.00	9867.00	11453.00
B13.5.3.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9606.00	8979.00	9606.00	9998.00	10675.00	10579.00	9606.00	10902.00	9933.00	10902.00	12408.00
B13.5.3.2	Height 5m to 10m												
B13.5.3.2.1	Using concrete Mixer	cum	9172.00	8545.00	9172.00	9445.00	10125.00	9943.00	9172.00	10225.00	9405.00	10225.00	11870.00
B13.5.3.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9955.00	9305.00	9955.00	10362.00	11063.00	10963.00	9955.00	11299.00	10294.00	11299.00	12859.00
B13.5.3.3	Height above 10m												
B13.5.3.3.1	Using concrete Mixer	cum	9574.00	8920.00	9574.00	9859.00	10569.00	10379.00	9574.00	10674.00	9817.00	10674.00	12390.00
B13.5.3.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10392.00	9714.00	10392.00	10817.00	11548.00	11444.00	10392.00	11794.00	10746.00	11794.00	13423.00
B13.5.4	PCC Grade M30												
B13.5.4.1	Height upto 5m												
B13.5.4.1.1	Using concrete Mixer	cum	8914.00	8305.00	8914.00	9183.00	9843.00	9667.00	8914.00	9943.00	9140.00	9943.00	10693.00
B13.5.4.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9664.00	9033.00	9664.00	10060.00	10741.00	10644.00	9664.00	10970.00	9992.00	10970.00	11707.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B13.5.4.2	Height 5m to 10m												
B13.5.4.2.1	Using concrete Mixer	cum	9238.00	8607.00	9238.00	9516.00	10201.00	10019.00	9238.00	10304.00	9472.00	10304.00	10914.00
B13.5.4.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10016.00	9362.00	10016.00	10426.00	11132.00	11031.00	10016.00	11369.00	10355.00	11369.00	11946.00
B13.5.4.3	Height above 10m												
B13.5.4.3.1	Using concrete Mixer	cum	9643.00	8985.00	9643.00	9934.00	10648.00	10458.00	9643.00	10756.00	9888.00	10756.00	11392.00
B13.5.4.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10455.00	9773.00	10455.00	10883.00	11620.00	11515.00	10455.00	11868.00	10809.00	11868.00	12470.00
B13.5.5	RCC Grade M20												
B13.5.5.1	Height upto 5m												
B13.5.5.1.1	Using concrete Mixer	cum	8435.00	7872.00	8435.00	8665.00	9272.00	9108.00	8435.00	9358.00	8655.00	9358.00	9888.00
B13.5.5.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9201.00	8616.00	9201.00	9559.00	10186.00	10101.00	9201.00	10403.00	9523.00	10403.00	10901.00
B13.5.5.2	Height 5m to 10m												
B13.5.5.2.1	Using concrete Mixer	cum	8741.00	8158.00	8741.00	8980.00	9609.00	9439.00	8741.00	9699.00	8970.00	9699.00	10248.00
B13.5.5.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9536.00	8929.00	9536.00	9907.00	10557.00	10468.00	9536.00	10781.00	9870.00	10781.00	11297.00
B13.5.5.3	Height above 10m												
B13.5.5.3.1	Using concrete Mixer	cum	9125.00	8516.00	9125.00	9374.00	10030.00	9853.00	9125.00	10124.00	9364.00	10124.00	10697.00
B13.5.5.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9954.00	9320.00	9954.00	10341.00	11020.00	10927.00	9954.00	11254.00	10302.00	11254.00	11793.00
B13.5.6	RCC Grade M25												
B13.5.6.1	Height upto 5m												
B13.5.6.1.1	Using concrete Mixer	cum	9037.00	8431.00	9037.00	9304.00	9964.00	9788.00	9037.00	10062.00	9262.00	10062.00	10648.00
B13.5.6.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10402.00	9711.00	10402.00	10826.00	11566.00	11469.00	10402.00	11826.00	10790.00	11826.00	12408.00
B13.5.6.2	Height 5m to 10m												
B13.5.6.2.1	Using concrete Mixer	cum	9333.00	8706.00	9333.00	9608.00	10290.00	10109.00	9333.00	10392.00	9566.00	10392.00	10996.00
B13.5.6.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10742.00	10029.00	10742.00	11181.00	11945.00	11845.00	10742.00	12213.00	11144.00	12213.00	12814.00
B13.5.6.3	Height above 10m												
B13.5.6.3.1	Using concrete Mixer	cum	9777.00	9120.00	9777.00	10065.00	10779.00	10589.00	9777.00	10886.00	10020.00	10886.00	11519.00
B13.5.6.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	11253.00	10506.00	11253.00	11712.00	12513.00	12408.00	11253.00	12794.00	11673.00	12794.00	13423.00
B13.5.7	RCC Grade M30												
B13.5.7.1	Height upto 5m												
B13.5.7.1.1	Using concrete Mixer	cum	9073.00	8464.00	9073.00	9342.00	10005.00	9828.00	9073.00	10104.00	9300.00	10104.00	10693.00
B13.5.7.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	9841.00	9209.00	9841.00	10238.00	10921.00	10824.00	9841.00	11150.00	10169.00	11150.00	11707.00
B13.5.7.2	Height 5m to 10m												
B13.5.7.2.1	Using concrete Mixer	cum	9329.00	8702.00	9329.00	9606.00	10287.00	10105.00	9329.00	10388.00	9562.00	10388.00	10995.00
B13.5.7.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10119.00	9469.00	10119.00	10527.00	11229.00	11129.00	10119.00	11464.00	10455.00	11464.00	12037.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B13.5.7.3	Height above 10m												
B13.5.7.3.1	Using concrete Mixer	cum	9692.00	9041.00	9692.00	9979.00	10687.00	10498.00	9692.00	10793.00	9934.00	10793.00	11422.00
B13.5.7.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10512.00	9837.00	10512.00	10936.00	11665.00	11562.00	10512.00	11910.00	10862.00	11910.00	12506.00
B13.5.8	RCC Grade M35												
B13.5.8.1	Height upto 5m												
B13.5.8.1.1	Using concrete Mixer	cum	9238.00	8617.00	9238.00	9517.00	10194.00	10014.00	9238.00	10297.00	9465.00	10297.00	10901.00
B13.5.8.1.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10633.00	9924.00	10633.00	11071.00	11830.00	11730.00	10633.00	12096.00	11025.00	12096.00	12699.00
B13.5.8.2	Height 5m to 10m												
B13.5.8.2.1	Using concrete Mixer	cum	9440.00	8805.00	9440.00	9724.00	10417.00	10233.00	9440.00	10521.00	9671.00	10521.00	11139.00
B13.5.8.2.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	10865.00	10140.00	10865.00	11313.00	12088.00	11986.00	10865.00	12360.00	11265.00	12360.00	12976.00
B13.5.8.3	Height above 10m												
B13.5.8.3.1	Using concrete Mixer	cum	9742.00	9087.00	9742.00	10036.00	10750.00	10561.00	9742.00	10858.00	9981.00	10858.00	11495.00
B13.5.8.3.2	With Batching Plant, Transit Mixer and Concrete Pump	cum	11213.00	10465.00	11213.00	11675.00	12475.00	12370.00	11213.00	12756.00	11626.00	12756.00	13392.00
B 13.6	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and technical specifications	tonne	68846.00	68411.00	68846.00	69245.00	70793.00	70143.00	68846.00	70678.00	68973.00	70678.00	72292.00
B 13.7	Supplying, fitting and placing Mild steel reinforcement complete in sub-structure as per drawing and technical specification	tonne	67971.00	66072.00	67971.00	68675.00	70700.00	69986.00	67971.00	70769.00	68013.00	70769.00	72900.00
B 13.8	Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications	R.metre	554.00	498.00	554.00	581.00	638.00	637.00	554.00	663.00	609.00	663.00	690.00
B 13.9	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical specification												
B 13.9.1	Granular material	cum	5143.00	4593.00	5143.00	5343.00	5880.00	5837.00	5143.00	6093.00	5646.00	6093.00	6370.00
B 13.9.2	Sandy material	cum	4237.00	2023.00	4237.00	5640.00	8034.00	7450.00	4237.00	8535.00	4244.00	8535.00	11106.00
B 13.10	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specification.	cum	747.00	653.00	747.00	729.00	821.00	778.00	747.00	804.00	798.00	804.00	871.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 13.11	Supplying, fitting and fixing in position true to line and level cast steel rocker bearing conforming to IRC: 83(Pt.-1) section IX and clause 2003 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	tonne capacity	329.00	295.00	329.00	345.00	378.00	378.00	329.00	395.00	362.00	395.00	410.00
B 13.12	Supplying, fitting and fixing in position true to line and level forged steel roller bearing conforming to IRC: 83(Pt.-1) section IX and clause 2003 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	tonne capacity	302.00	271.00	302.00	316.00	347.00	346.00	302.00	362.00	332.00	362.00	376.00
B 13.13	Supplying, fitting and fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel complete including all accessories as per drawing and Technical Specifications and BS: 5400, section 9.1 & 9.2 (for PTFE) and clause 2004 of MoRTH Specifications.	tonne capacity	2455.00	2202.00	2455.00	2576.00	2822.00	2822.00	2455.00	2949.00	2706.00	2949.00	3066.00
B 13.14	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	cubic centimetre	6.10	5.40	6.10	6.40	7.00	7.00	6.10	7.30	6.70	7.30	7.60
B 13.15	Supplying, fitting and fixing in position true to line and level sliding plate bearing with stainless steel plate sliding on stainless steel plate with mild steel matrix complete including all accessories as per drawing and Technical Specifications.	tonne capacity	2454.00	2201.00	2454.00	2574.00	2821.00	2820.00	2454.00	2948.00	2704.00	2948.00	3065.00
B 13.16	Supplying, fitting and fixing in position true to line and level POT-PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel/fabricated structural steel, metal and elastomer elements to be as per IRC: 83 part-I & II respectively and other parts conforming to BS: 5400, section 9.1 & 9.2 and clause 2006 of MoRTH Specifications complete as per drawing and approved technical specifications.	tonne capacity	302.00	271.00	302.00	317.00	347.00	347.00	302.00	362.00	333.00	362.00	377.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 14.0 SUPER-STRUCTURE													
B14.1	Furnishing and Placing Reinforced/Prestressed cement concrete in super-structure as per drawing and Technical Specification												
B14.1.1	RCC Grade M20												
B14.1.1.1	Using Concrete Mixer												
B14.1.1.1.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.1.1.1.1	Height upto 5m	cum	9130.00	8521.00	9130.00	9377.00	10033.00	9856.00	9130.00	10126.00	9371.00	10126.00	10698.00
B14.1.1.1.1.2	Height 5m to 10m	cum	9510.00	8877.00	9510.00	9768.00	10451.00	10267.00	9510.00	10548.00	9762.00	10548.00	11143.00
B14.1.1.1.1.3	Height above 10m	cum	9890.00	9232.00	9890.00	10159.00	10869.00	10678.00	9890.00	10970.00	10152.00	10970.00	11589.00
B14.1.1.1.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.1.1.2.1	Height upto 5m	cum	9510.00	8877.00	9510.00	9768.00	10451.00	10267.00	9510.00	10548.00	9762.00	10548.00	11143.00
B14.1.1.1.2.2	Height 5m to 10m	cum	9890.00	9232.00	9890.00	10159.00	10869.00	10678.00	9890.00	10970.00	10152.00	10970.00	11589.00
B14.1.1.1.2.3	Height above 10m	cum	10271.00	9587.00	10271.00	10550.00	11287.00	11088.00	10271.00	11392.00	10543.00	11392.00	12035.00
B14.1.1.2	Using Batching Plant, Transit Mixer and Concrete Pump												
B14.1.1.2.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.1.2.1.1	Height upto 5m	cum	9964.00	9331.00	9964.00	10351.00	11029.00	10938.00	9964.00	11263.00	10316.00	11263.00	11800.00
B14.1.1.2.1.2	Height 5m to 10m	cum	10379.00	9720.00	10379.00	10782.00	11488.00	11393.00	10379.00	11733.00	10746.00	11733.00	12291.00
B14.1.1.2.1.3	Height above 10m	cum	10795.00	10109.00	10795.00	11213.00	11948.00	11849.00	10795.00	12202.00	11176.00	12202.00	12783.00
B14.1.1.2.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.1.2.2.1	Height upto 5m	cum	10379.00	9720.00	10379.00	10782.00	11488.00	11393.00	10379.00	11733.00	10746.00	11733.00	12291.00
B14.1.1.2.2.2	Height 5m to 10m	cum	10795.00	10109.00	10795.00	11213.00	11948.00	11849.00	10795.00	12202.00	11176.00	12202.00	12783.00
B14.1.1.2.2.3	Height above 10m	cum	298929.00	10497.00	298929.00	11645.00	12407.00	12305.00	298929.00	12671.00	11606.00	12671.00	13275.00
B14.1.2	RCC Grade M25												
B14.1.2.1	Using Concrete Mixer												
B14.1.2.1.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.2.1.1.1	Height upto 5m	cum	9811.00	9153.00	9811.00	10100.00	10815.00	10624.00	9811.00	10921.00	10057.00	10921.00	11556.00
B14.1.2.1.1.2	Height 5m to 10m	cum	10220.00	9534.00	10220.00	10520.00	11265.00	11067.00	10220.00	11376.00	10476.00	11376.00	12038.00
B14.1.2.1.1.3	Height above 10m	cum	10628.00	9915.00	10628.00	10941.00	11716.00	11509.00	10628.00	11831.00	10895.00	11831.00	12519.00
B14.1.2.1.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.2.1.2.1	Height upto 5m	cum	10220.00	9534.00	10220.00	10520.00	11265.00	11067.00	10220.00	11376.00	10476.00	11376.00	12038.00
B14.1.2.1.2.2	Height 5m to 10m	cum	10628.00	9915.00	10628.00	10941.00	11716.00	11509.00	10628.00	11831.00	10895.00	11831.00	12519.00
B14.1.2.1.2.3	Height above 10m	cum	11037.00	10297.00	11037.00	11362.00	12166.00	11952.00	11037.00	12286.00	11314.00	12286.00	13001.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B14.1.2.2	Using Batching Plant, Transit Mixer and Concrete Pump												
B14.1.2.2.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.2.2.1.1	Height upto 5m	cum	10658.00	9973.00	10658.00	11086.00	11824.00	11719.00	10658.00	12073.00	11015.00	12073.00	12674.00
B14.1.2.2.1.2	Height 5m to 10m	cum	11102.00	10389.00	11102.00	11548.00	12317.00	12207.00	11102.00	12576.00	11474.00	12576.00	13202.00
B14.1.2.2.1.3	Height above 10m	cum	11546.00	10805.00	11546.00	12010.00	12809.00	12696.00	11546.00	13079.00	11933.00	13079.00	13730.00
B14.1.2.2.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.2.2.2.1	Height upto 5m	cum	11102.00	10389.00	11102.00	11548.00	12317.00	12207.00	11102.00	12576.00	11474.00	12576.00	13202.00
B14.1.2.2.2.2	Height 5m to 10m	cum	11546.00	10805.00	11546.00	12010.00	12809.00	12696.00	11546.00	13079.00	11933.00	13079.00	13730.00
B14.1.2.2.2.3	Height above 10m	cum	11990.00	11220.00	11990.00	12472.00	13302.00	13184.00	11990.00	13582.00	12392.00	13582.00	14258.00
B14.1.3	RCC Grade M 30												
B14.1.3.1	Using Concrete Mixer												
B14.1.3.1.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.3.1.1.1	Height upto 5m	cum	9922.00	9253.00	9922.00	10211.00	10939.00	10742.00	9922.00	11042.00	10169.00	11042.00	11690.00
B14.1.3.1.1.2	Height 5m to 10m	cum	10336.00	9639.00	10336.00	10637.00	11395.00	11189.00	10336.00	11502.00	10593.00	11502.00	12177.00
B14.1.3.1.1.3	Height above 10m	cum	10749.00	10024.00	10749.00	11062.00	11850.00	11637.00	10749.00	11962.00	11017.00	11962.00	12664.00
B14.1.3.1.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.3.1.2.1	Height upto 5m	cum	10336.00	9639.00	10336.00	10637.00	11395.00	11189.00	10336.00	11502.00	10593.00	11502.00	12177.00
B14.1.3.1.2.2	Height 5m to 10m	cum	10749.00	10024.00	10749.00	11062.00	11850.00	11637.00	10749.00	11962.00	11017.00	11962.00	12664.00
B14.1.3.1.2.3	Height above 10m	cum	11163.00	10410.00	11163.00	11488.00	12306.00	12084.00	11163.00	12422.00	11440.00	12422.00	13151.00
B14.1.3.2	Using Batching Plant, Transit Mixer and Concrete Pump.												
B14.1.3.2.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.3.2.1.1	Height upto 5m	cum	10754.00	10062.00	10754.00	11187.00	11934.00	11827.00	10754.00	12184.00	11113.00	12184.00	12794.00
B14.1.3.2.1.2	Height 5m to 10m	cum	11202.00	10481.00	11202.00	11653.00	12431.00	12320.00	11202.00	12692.00	11576.00	12692.00	13327.00
B14.1.3.2.1.3	Height above 10m	cum	11650.00	10900.00	11650.00	12119.00	12928.00	12812.00	11650.00	13200.00	12039.00	13200.00	13860.00
B14.1.3.2.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.3.2.2.1	Height upto 5m	cum	11202.00	10481.00	11202.00	11653.00	12431.00	12320.00	11202.00	12692.00	11576.00	12692.00	13327.00
B14.1.3.2.2.2	Height 5m to 10m	cum	11650.00	10900.00	11650.00	12119.00	12928.00	12812.00	11650.00	13200.00	12039.00	13200.00	13860.00
B14.1.3.2.2.3	Height above 10m	cum	12098.00	11320.00	12098.00	12585.00	13426.00	13305.00	12098.00	13707.00	12502.00	13707.00	14393.00
B14.1.4	RCC/PSC Grade M35												
B14.1.4.1	Using concrete mixer.												
B14.1.4.1.1	For solid slab super-structure, 18-28% of (a+b+c)												
B14.1.4.1.1.1	Height upto 5m	cum	9934.00	9263.00	9934.00	10229.00	10960.00	10762.00	9934.00	11065.00	10178.00	11065.00	11719.00
B14.1.4.1.1.2	Height 5m to 10m	cum	10355.00	9655.00	10355.00	10662.00	11424.00	11218.00	10355.00	11534.00	10609.00	11534.00	12215.00
B14.1.4.1.1.3	Height above 10m	cum	10776.00	10048.00	10776.00	11096.00	11888.00	11674.00	10776.00	12002.00	11041.00	12002.00	12712.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B14.1.4.1.2	For T-beam & slab, 23-33% of (a+b+c)												
B14.1.4.1.2.1	Height upto 5m	cum	10355.00	9655.00	10355.00	10662.00	11424.00	11218.00	10355.00	11534.00	10609.00	11534.00	12215.00
B14.1.4.1.2.2	Height 5m to 10m	cum	10776.00	10048.00	10776.00	11096.00	11888.00	11674.00	10776.00	12002.00	11041.00	12002.00	12712.00
B14.1.4.1.2.3	Height above 10m	cum	11197.00	10440.00	11197.00	11529.00	12353.00	12130.00	11197.00	12471.00	11472.00	12471.00	13208.00
B14.1.4.1.3	For box girder and balanced cantilever, 38-58% of cost of concrete.												
B14.1.4.1.3.1	Height upto 5m	cum	11618.00	10833.00	11618.00	11963.00	12817.00	12586.00	11618.00	12940.00	11903.00	12940.00	13705.00
B14.1.4.1.3.2	Height 5m to 10m	cum	12460.00	11618.00	12460.00	12830.00	13746.00	13498.00	12460.00	13878.00	12766.00	13878.00	14698.00
B14.1.4.1.3.3	Height above 10m	cum	13302.00	12403.00	13302.00	13696.00	14675.00	14410.00	13302.00	14816.00	13628.00	14816.00	15691.00
B14.1.4.2	Using Batching Plant, Transit Mixer and Concrete Pump												
B14.1.4.2.1	For solid slab super-structure, 18-28% of (a+b+c)												
B14.1.4.2.1.1	Height upto 5m	cum	10737.00	10045.00	10737.00	11173.00	11921.00	11812.00	10737.00	12170.00	11089.00	12170.00	12785.00
B14.1.4.2.1.2	Height 5m to 10m	cum	11192.00	10471.00	11192.00	11646.00	12426.00	12312.00	11192.00	12685.00	11559.00	12685.00	13327.00
B14.1.4.2.1.3	Height above 10m	cum	11647.00	10896.00	11647.00	12119.00	12931.00	12813.00	11647.00	13201.00	12029.00	13201.00	13869.00
B14.1.4.2.2	For T-beam & slab, 23-33% of (a+b+c)												
B14.1.4.2.2.1	Height upto 5m	cum	11192.00	10471.00	11192.00	11646.00	12426.00	12312.00	11192.00	12685.00	11559.00	12685.00	13327.00
B14.1.4.2.2.2	Height 5m to 10m	cum	11647.00	10896.00	11647.00	12119.00	12931.00	12813.00	11647.00	13201.00	12029.00	13201.00	13869.00
B14.1.4.2.2.3	Height above 10m	cum	12102.00	11322.00	12102.00	12593.00	13436.00	13314.00	12102.00	13717.00	12499.00	13717.00	14410.00
B14.1.4.2.3	For box girder and balanced cantilever, 38-58% of cost of concrete.												
B14.1.4.2.3.1	Height upto 5m	cum	12557.00	11747.00	12557.00	13066.00	13941.00	13814.00	12557.00	14232.00	12969.00	14232.00	14952.00
B14.1.4.2.3.2	Height 5m to 10m	cum	13467.00	12599.00	13467.00	14013.00	14952.00	14815.00	13467.00	15264.00	13908.00	15264.00	16036.00
B14.1.4.2.3.3	Height above 10m	cum	14377.00	13450.00	14377.00	14960.00	15962.00	15816.00	14377.00	16295.00	14848.00	16295.00	17119.00
B14.1.5	PSC Grade M-40												
B14.1.5.1	Using concrete mixer.												
B14.1.5.1.1	For solid slab super-structure, 20-30% of (a+b+c)												
B14.1.5.1.1.1	Height upto 5m	cum	10933.00	10167.00	10933.00	11268.00	12094.00	11886.00	10933.00	12234.00	11253.00	12234.00	12946.00
B14.1.5.1.1.2	Height 5m to 10m	cum	11389.00	10591.00	11389.00	11738.00	12598.00	12382.00	11389.00	12744.00	11722.00	12744.00	13485.00
B14.1.5.1.1.3	Height above 10m	cum	11844.00	11014.00	11844.00	12207.00	13102.00	12877.00	11844.00	13254.00	12191.00	13254.00	14025.00
B14.1.5.1.2	For T-beam & slab, 25-35% of (a+b+c)												
B14.1.5.1.2.1	Height upto 5m	cum	11389.00	10591.00	11389.00	11738.00	12598.00	12382.00	11389.00	12744.00	11722.00	12744.00	13485.00
B14.1.5.1.2.2	Height 5m to 10m	cum	11844.00	11014.00	11844.00	12207.00	13102.00	12877.00	11844.00	13254.00	12191.00	13254.00	14025.00
B14.1.5.1.2.3	Height above 10m	cum	12300.00	11438.00	12300.00	12677.00	13606.00	13372.00	12300.00	13764.00	12660.00	13764.00	14564.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B14.1.5.2	Using Batching Plant, Transit Mixer and Concrete Pump												
B14.1.5.2.1	For solid slab super-structure, 18-28% of (a+b+c)												
B14.1.5.2.1.1	Height upto 5m	cum	11519.00	10749.00	11519.00	11993.00	12819.00	12708.00	11519.00	13105.00	11942.00	13105.00	13762.00
B14.1.5.2.1.2	Height 5m to 10m	cum	12007.00	11204.00	12007.00	12501.00	13362.00	13246.00	12007.00	13660.00	12448.00	13660.00	14345.00
B14.1.5.2.1.3	Height above 10m	cum	12495.00	11660.00	12495.00	13010.00	13905.00	13784.00	12495.00	14215.00	12954.00	14215.00	14928.00
B14.1.5.2.2	For T-beam & slab, 23-33% of (a+b+c)												
B14.1.5.2.2.1	Height upto 5m	cum	12007.00	11204.00	12007.00	12501.00	13362.00	13246.00	12007.00	13660.00	12448.00	13660.00	14345.00
B14.1.5.2.2.2	Height 5m to 10m	cum	12495.00	11660.00	12495.00	13010.00	13905.00	13784.00	12495.00	14215.00	12954.00	14215.00	14928.00
B14.1.5.2.2.3	Height above 10m	cum	12983.00	12115.00	12983.00	13518.00	14448.00	14323.00	12983.00	14771.00	13460.00	14771.00	15511.00
B14.1.5.2.3	For box girder and balanced cantilever, 38-58% of cost of concrete.												
B14.1.5.2.3.1	Height upto 5m	cum	13471.00	12571.00	13471.00	14026.00	14992.00	14861.00	13471.00	15326.00	13966.00	15326.00	16094.00
B14.1.5.2.3.2	Height 5m to 10m	cum	14447.00	13482.00	14447.00	15042.00	16078.00	15938.00	14447.00	16436.00	14978.00	16436.00	17261.00
B14.1.5.2.3.3	Height above 10m	cum	15423.00	14393.00	15423.00	16059.00	17164.00	17015.00	15423.00	17547.00	15990.00	17547.00	18427.00
B14.1.6	PSC Grade M-45												
B14.1.6.1	For solid slab/voided slab super-structure, 16-26% of cost of concrete (a+b+c)												
B14.1.6.1.1	Height upto 5m	cum	11776.00	10984.00	11776.00	12269.00	13120.00	13003.00	11776.00	13412.00	12200.00	13412.00	14098.00
B14.1.6.1.2	Height 5m to 10m	cum	12283.00	11457.00	12283.00	12798.00	13686.00	13563.00	12283.00	13990.00	12725.00	13990.00	14706.00
B14.1.6.1.3	Height above 10m	cum	12791.00	11931.00	12791.00	13326.00	14251.00	14124.00	12791.00	14568.00	13251.00	14568.00	15313.00
B14.1.6.2	For I-beam & slab including launching of precast girders by launching truss upto 40 m span, 21-31% of cost of concrete.												
B14.1.6.2.1	Height upto 5m	cum	12283.00	11457.00	12283.00	12798.00	13686.00	13563.00	12283.00	13990.00	12725.00	13990.00	14706.00
B14.1.6.2.2	Height 5m to 10m	cum	12791.00	11931.00	12791.00	13326.00	14251.00	14124.00	12791.00	14568.00	13251.00	14568.00	15313.00
B14.1.6.2.3	Height above 10m	cum	13298.00	12404.00	13298.00	13855.00	14817.00	14684.00	13298.00	15146.00	13777.00	15146.00	15921.00
B14.1.6.3	For cast-in-situ box girder, segmental construction and balanced cantilever, 36-56% of cost of concrete.												
B14.1.6.3.1	Height upto 5m	cum	13806.00	12878.00	13806.00	14384.00	15383.00	15245.00	13806.00	15725.00	14303.00	15725.00	16529.00
B14.1.6.3.2	Height 5m to 10m	cum	14821.00	13825.00	14821.00	15442.00	16514.00	16366.00	14821.00	16881.00	15355.00	16881.00	17744.00
B14.1.6.3.3	Height above 10m	cum	15836.00	14772.00	15836.00	16499.00	17645.00	17487.00	15836.00	18037.00	16406.00	18037.00	18959.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B14.1.7	PSC Grade M-50												
B14.1.7.1	For cast-in-situ box girder, segmental construction and balanced cantilever, 35-55% of cost of concrete												
B14.1.7.1.1	Height upto 5m	cum	14080.00	13130.00	14080.00	14676.00	15701.00	15557.00	14080.00	16049.00	14581.00	16049.00	16880.00
B14.1.7.1.2	Height 5m to 10m	cum	15123.00	14103.00	15123.00	15763.00	16864.00	16710.00	15123.00	17238.00	15661.00	17238.00	18131.00
B14.1.7.1.3	Height above 10m	cum	16166.00	15075.00	16166.00	16850.00	18027.00	17862.00	16166.00	18427.00	16741.00	18427.00	19381.00
B14.1.8	PSC Grade M- 55												
B14.1.8.1	For cast-in-situ box girder, segmental construction and balanced cantilever, 35-55% of cost of concrete												
B14.1.8.1.1	Height upto 5m	cum	14669.00	13674.00	14669.00	15300.00	16376.00	16223.00	14669.00	16739.00	15180.00	16739.00	17622.00
B14.1.8.1.2	Height 5m to 10m	cum	15756.00	14686.00	15756.00	16433.00	17589.00	17424.00	15756.00	17979.00	16305.00	17979.00	18927.00
B14.1.8.1.3	Height above 10m	cum	16843.00	15699.00	16843.00	17566.00	18802.00	18626.00	16843.00	19219.00	17429.00	19219.00	20232.00
B 14.2	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	tonne	69810.00	69270.00	69810.00	70124.00	71777.00	71036.00	69810.00	71579.00	69951.00	71579.00	73289.00
B 14.3	High tensile steel wires/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications	tonne	78354.00	74528.00	78354.00	79311.00	83241.00	82061.00	78354.00	83589.00	79890.00	83589.00	86861.00
B 14.4	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications	cum	14243.00	13617.00	14243.00	14619.00	15374.00	15219.00	14243.00	15558.00	14551.00	15558.00	16204.00
B 14.5	Mastic Asphalt (Providing and laying 12 mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 9.5 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100 deg. C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.)	sqm	359.00	331.00	359.00	361.00	391.00	379.00	359.00	388.00	367.00	388.00	414.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 14.6	Construction of precast RCC railing of M30 Grade, aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.	metre	2163.00	2099.00	2163.00	2203.00	2293.00	2270.00	2163.00	2309.00	2194.00	2309.00	2389.00
B 14.7	Construction of RCC railing of M30 Grade in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.	metre	2114.00	2049.00	2114.00	2154.00	2243.00	2221.00	2114.00	2259.00	2145.00	2259.00	2339.00
B 14.8	Providing, fitting and fixing mild steel railing complete as per drawing and Technical Specification	metre	3471.00	3381.00	3471.00	3492.00	3588.00	3547.00	3471.00	3580.00	3471.00	3580.00	3682.00
B 14.9	Drainage Spouts complete as per drawing and Technical specification	each	3319.00	2975.00	3319.00	3465.00	3801.00	3786.00	3319.00	3952.00	3641.00	3952.00	4123.00
B 14.10	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	cum	6574.00	6135.00	6574.00	6732.00	7204.00	7069.00	6574.00	7259.00	6752.00	7259.00	7665.00
B 14.11	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	cum	12616.00	12003.00	12616.00	13000.00	13715.00	13588.00	12616.00	13918.00	12927.00	13918.00	14521.00
B 14.12	Providing anti-corrosive treatment to HYSD reinforcement with Fusion Bonded Epoxy Coating (FBEC) (To be taken as per the prevailing market rates.)	tonne											
B 14.13	Precast - pretensioned Girders (Providing, precasting, transportation and placing in position precast pretensioned concrete girders as per drawing and technical specifications)	cum	31720.00	30421.00	31720.00	32067.00	33543.00	33043.00	31720.00	33593.00	32208.00	33593.00	34892.00
B 14.14	Providing and fixing Helical pipes in voided concrete slabs	metre	1428.00	1277.00	1428.00	1482.00	1630.00	1618.00	1428.00	1688.00	1566.00	1688.00	1764.00
B 14.15	Crash Barriers (The rate analysis for rigid crash barrier in reinforced cement concrete, semi-rigid crash barrier with metal beam and flexible crash barrier with wire ropes have been made and included in chapter-8 on Traffic and Transportation.)												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 14.16	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m.)	metre	138.00	126.00	138.00	144.00	157.00	157.00	138.00	163.00	151.00	163.00	169.00
B 14.17	Burried Joint (Providing and laying a burried expansion joint, expansion gap being 20 mm, covered with 12 mm thick, 200 mm wide galvanised weldable structural steel plate as per IS: 2062, placed symmetrical to centre line of the joint, resting freely over the top surface of the deck concrete, welding of 8 mm dia. 100 mm long galvanised nails spaced 300 mm c/c along the centre line of the plate, all as specified in clause 2604.)	metre	1418.00	1271.00	1418.00	1485.00	1628.00	1626.00	1418.00	1699.00	1561.00	1699.00	1768.00
B 14.18	Filler joint												
B 14.18.1	Providing & fixing 2 mm thick corrugated copper plate in expansion joint complete as per drawing & Technical Specification.	metre	676.00	606.00	676.00	705.00	773.00	770.00	676.00	804.00	742.00	804.00	838.00
B 14.18.2	Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & Technical Specification.	metre	334.00	300.00	334.00	350.00	383.00	383.00	334.00	400.00	368.00	400.00	416.00
B 14.18.3	Providing and fixing in position 20 mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10 m to cater for a horizontal movement upto 20 mm, covered with sealant complete as per drawing and technical specifications.	metre	190.00	170.00	190.00	198.00	217.00	216.00	190.00	226.00	209.00	226.00	235.00
B 14.18.4	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6% bitumen by weight	metre	23.00	20.00	23.00	21.00	24.00	21.00	23.00	22.00	24.00	22.00	24.00
B 14.19	Asphaltic Plug joint (Providing and laying of asphaltic plug joint to provide for horizontal movement of 25 mm and vertical movement of 2 mm, depth of joint varying from 75 mm to 100 mm, width varying from 500 mm to 750 mm (in traffic direction), covered with a closure plate of 200mm x 6mm of weldable structural steel conforming to IS: 2062, asphaltic plug to consist of polymer modified bitumen binder, carefully selected single size aggregate of 12.5 mm nominal size and a heat resistant foam caulking/backer rod, all as per approved drawings and specifications.)	metre	1494.00	1460.00	1494.00	1508.00	1544.00	1533.00	1494.00	1548.00	1500.00	1548.00	1583.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 14.20	Elastomeric Slab Steel Expansion Joint (Providing and laying of an elastomeric slab steel expansion joint, catering to right or skew (less than 20 deg., moderately curved with maximum horizontal movement upto 50 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation and clause 2606 of MoRTH specifications for road & bridge works.)	metre	1740.00	1559.00	1740.00	1818.00	1994.00	1989.00	1740.00	2078.00	1913.00	2078.00	2163.00
B 14.21	Compression Seal Joint (Providing and laying of compression seal joint consisting of steel armoured nosing at two edges of the joint gap suitably anchored to the deck concrete and a preformed chloroprene elastomer or closed cell foam joint sealer compressed and fixed into the joint gap with special adhesive binder to cater for a horizontal movement upto 40 mm and vertical movement of 3mm)	metre	4037.00	3885.00	4037.00	4115.00	4268.00	4251.00	4037.00	4326.00	4127.00	4326.00	4437.00
B 14.22	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	metre	77.00	67.00	77.00	74.00	84.00	78.00	77.00	80.00	82.00	80.00	88.00
B 14.23	Modular Strip / Box Seal Joint (Providing and laying of a modular strip Box steel expansion joint including anchorage catering to a horizontal movement beyond 70 mm and upto 140mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	metre	1049.00	939.00	1049.00	1094.00	1200.00	1195.00	1049.00	1248.00	1152.00	1248.00	1301.00
B 14.24	Modular Strip / Box Seal Joint (Providing and laying of a modular strip box seal expansion joint catering to a horizontal movement beyond 140mm and upto 210mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	metre	1260.00	1129.00	1260.00	1314.00	1442.00	1436.00	1260.00	1499.00	1385.00	1499.00	1563.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
	B 15.0 RIVER TRAINING AND PROTECTION WORKS												
B 15.1	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and Technical specification.												
B 15.1.1	Boulder laid dry without wire crates.	cum	1075.00	1013.00	1075.00	1037.00	1099.00	1054.00	1075.00	1062.00	1091.00	1062.00	1115.00
B 15.2	Boulder apron laid in wire crates (Providing and laying of boulder apron laid in wire crates made with 4mm dia GI wire conforming to IS: 280 & IS:4826 in 100mm x 100mm mesh (weaved diagonally) including 10% extra for laps and joints laid with stone boulders weighing not less than 40 kg each.)	cum	3069.00	2803.00	3069.00	3149.00	3409.00	3377.00	3069.00	3495.00	3301.00	3495.00	3635.00
B 15.3	Cement concrete blocks (size 0.5 x 0.5 x 0.5 m) (Providing and laying of apron with cement concrete blocks of size 0.5x0.5x0.5 m cast in-situ and made with nominal mix of M-15 grade cement concrete with a minimum cement content of 250 kg/cum.	cum	6974.00	6507.00	6974.00	7141.00	7641.00	7498.00	6974.00	7699.00	7161.00	7699.00	8130.00
B 15.4	Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications												
B 15.4.1	Stone/Boulder	cum	1075.00	1013.00	1075.00	1037.00	1099.00	1054.00	1075.00	1062.00	1091.00	1062.00	1115.00
B 15.4.2	Cement Concrete blocks of size 0.3x0.3 x0.3 m cast in cement concrete of Grade M15	cum	6974.00	6507.00	6974.00	7141.00	7641.00	7498.00	6974.00	7699.00	7161.00	7699.00	8130.00
B 15.5	Providing and laying Filter material underneath pitching in slopes complete as per drawing and Technical specification	cum	882.00	771.00	882.00	845.00	955.00	894.00	882.00	919.00	932.00	919.00	1003.00
B 15.6	Geotextile Filter (Laying of a geotextile filter between pitching and embankment slopes on which pitching is laid to prevent escape of the embankment material through the voids of the stone pitching/cement concrete blocks as well as to allow free movement of water without creating any uplift head on the pitching.)	sqm	87.00	78.00	87.00	89.00	98.00	96.00	87.00	100.00	95.00	100.00	106.00
B 15.7	Toe protection (A toe wall for toe protection can either be in dry rubble masonry in case of dry rubble pitching or pitching with stones in wire crates or it can be in PCC M15 nominal mix if cement concrete block have been used for pitching . Rates for toe wall can be adopted from respective clauses depending upon approved design. The rate for excavation for foundation, dry rubble masonry and PCC M15 have been analysed and given in respective												

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 15.8	Providing and laying Flooring complete as per drawing and Technical specifications laid over cement concrete bedding.												
B 15.8.1	Rubble stone laid in cement mortar 1:3	cum	5881.00	5415.00	5881.00	5969.00	7460.00	7261.00	5881.00	6460.00	6054.00	6460.00	6889.00
B 15.8.2	Cement Concrete blocks Grade M15	cum	9184.00	8569.00	9184.00	9404.00	10063.00	9875.00	9184.00	10139.00	9431.00	10139.00	10707.00
B 15.9	Dry rubble Flooring	cum	1385.00	1276.00	1385.00	1301.00	1409.00	1317.00	1385.00	1326.00	1401.00	1326.00	1425.00
B 15.10	Curtain wall complete as per drawing and Technical specification												
B 15.10.1	Stone masonry in cement mortar (1:3)	cum	6608.00	6246.00	6608.00	6633.00	7012.00	6856.00	6608.00	6980.00	6743.00	6980.00	7304.00
B 15.10.2	Cement concrete Grade M15	cum	6837.00	6379.00	6837.00	7001.00	7491.00	7351.00	6837.00	7548.00	7021.00	7548.00	7971.00
B 15.11	Flexible Apron :Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall.	cum	1129.00	1051.00	1129.00	1076.00	1153.00	1092.00	1129.00	1101.00	1146.00	1101.00	1170.00
B 15.12	Gabian Structure for Retaining Earth (Providing and construction of a gabain structure for retaining earth with segments of wire crates of size 7 m x 3 m x 0.6 m each divided into 1.5 m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be tied with 4 mm galvanised steel wire)	cum	3495.00	3185.00	3495.00	3608.00	3911.00	3887.00	3495.00	4031.00	3779.00	4031.00	4187.00
B 15.13	Gabian Structure for Erosion Control, River Training Works and Protection works (Providing and constructing gabain structures for erosion control, river training works and protection works with wire crates of size 2 m x 1 m x 0.3 m each divided into 1m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 mm x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be securely tied with 4 mm galvanised steel wire.)	cum	6738.00	6093.00	6738.00	7009.00	7638.00	7612.00	6738.00	7925.00	7352.00	7925.00	8236.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 16.0 REPAIR AND REHABILITATION													
B 16.1	Removal of existing cement concrete wearing coat including its disposal complete as per Technical specification without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead upto 1000m(Thickness 75 mm)	sqm	94.00	81.00	94.00	91.00	103.00	97.00	94.00	100.00	100.00	100.00	109.00
B 16.2	Removal of existing asphaltic wearing coat comprising of 50 mm thick asphaltic concrete laid over 12 mm thick mastic asphalt including disposal with all lift and lead upto 1000m.	sqm	71.00	61.00	71.00	69.00	78.00	73.00	71.00	76.00	76.00	76.00	82.00
B 16.3	Guniting concrete surface with cement mortar applied with compressor after cleaning surface and spraying with epoxy complete as per Technical specification	sqm	1296.00	1208.00	1296.00	1330.00	1419.00	1407.00	1296.00	1448.00	1365.00	1448.00	1503.00
B 16.4	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy	each	94.00	89.00	94.00	92.00	97.00	95.00	94.00	96.00	96.00	96.00	100.00
B 16.5	Sealing of cracks/porous concrete by injection process through nipples/Grouting complete as per Technical specification.												
B 16.5.1	Cement Grout	kg	45.00	41.00	45.00	45.00	49.00	48.00	45.00	50.00	48.00	50.00	52.00
B 16.5.2	Cement mortar (1:1) Grouting	kg	124.00	115.00	124.00	120.00	129.00	123.00	124.00	125.00	127.00	125.00	133.00
B 16.6	Patching of damaged concrete surface with polymer concrete and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	sqm	4564.00	4093.00	4564.00	4782.00	5240.00	5236.00	4564.00	5471.00	5026.00	5471.00	5690.00
B 16.7	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete as per clause 2803.1.	kg	793.00	783.00	793.00	788.00	798.00	792.00	793.00	794.00	796.00	794.00	802.00
B 16.8	Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per Technical specification	sqm	310.00	307.00	310.00	308.00	312.00	309.00	310.00	310.00	311.00	310.00	314.00
B 16.9	Repair of RCC Railing (Carrying out repair of RCC M30 railing to bring it to the original shape.)	metre	171.00	165.00	171.00	175.00	182.00	181.00	171.00	185.00	174.00	185.00	191.00
B 16.10	Repair of steel Railing (Repair of steel railing to bring it to the original shape)	metre	309.00	303.00	309.00	313.00	320.00	318.00	309.00	321.00	309.00	321.00	329.00

Code. No.	Description	Unit	Kohima	Dimapur	Peren	Wokha	Phek	Zunheboto	Mokokchung	Tuensang	Mon	Longleng	Kiphire
B 16.11	Removal of defective concrete, cleaning the surface thoroughly, applying the shotcrete mixture mechanically with compressed air under pressure, comprising of cement, sand, coarse aggregates, water and quick setting compound in the proportion as per clause 2807.1., sand and coarse aggregates conforming to IS: 383 and table 1 of IS: 9012 respectively, water cement ratio ranging from 0.35 to 0.50, density of gunite not less than 2000 kg/cum, strength not less than 25 Mpa and workmanship conforming to clause 2807.6	sqm	438.00	398.00	438.00	453.00	494.00	487.00	438.00	505.00	465.00	505.00	533.00
B 16.12	Applying pre-packed cement based polymer mortar of strength 45 Mpa at 28 days for replacement of spalled concrete	sqm	294.00	264.00	294.00	304.00	334.00	331.00	294.00	344.00	321.00	344.00	360.00
B 16.13	Epoxy bonding of new concrete to old concrete	sqm	332.00	328.00	332.00	330.00	334.00	331.00	332.00	331.00	332.00	331.00	336.00
B 16.14	Providing external prestressing with high tensile steel wires/strands including drilling for passage of prestressing steel, all accessories for stressing and stressing operation and grouting complete as per drawing and Technical specification	tonne	321955.00	309757.00	321955.00	327214.00	339796.00	337162.00	321955.00	342716.00	327137.00	342716.00	353121.00
B 16.15	Providing external prestressing with high tensile steel wires/strands including drilling for passage of prestressing steel, all accessories for stressing and stressing operation and grouting complete as per drawing and Technical specification	tonne	319554.00	308199.00	319554.00	324707.00	336471.00	333999.00	319554.00	339221.00	323962.00	339221.00	349215.00
B 16.16	Providing external prestressing with high tensile steel wires/strands including drilling for passage of prestressing steel, all accessories for stressing and stressing operation and grouting complete as per drawing and Technical specification	tonne	292535.00	282025.00	292535.00	297273.00	308158.00	305864.00	292535.00	310689.00	296640.00	310689.00	319919.00
B 16.17	Replacement of bearings complete as per Technical specification	each	83125.00	74518.00	83125.00	86883.00	95272.00	95030.00	83125.00	99249.00	91417.00	99249.00	103346.00
B 16.18	Rectification of bearings as per Technical specifications	each	76379.00	68468.00	76379.00	79805.00	87516.00	87274.00	76379.00	91142.00	83982.00	91142.00	94918.00
B 16.19	Replacement of Expansion Joints complete as per drawings	metre	3882.00	3644.00	3882.00	3981.00	4236.00	4173.00	3882.00	4281.00	3990.00	4281.00	4494.00
B 16.20	Replacement of damaged concrete railing.	metre	202.00	167.00	202.00	173.00	208.00	178.00	202.00	180.00	206.00	180.00	212.00
B 16.21	Replacement of crash barrier.	metre	360.00	295.00	360.00	302.00	367.00	306.00	360.00	308.00	364.00	308.00	371.00
B 16.22	Replacement of damaged mild steel railing	metre	170.00	141.00	170.00	148.00	176.00	152.00	170.00	154.00	174.00	154.00	181.00
B 16.23	Repair of crash barrier (Repair of concrete crash barrier with cement concrete of M-30 grade by cutting and trimming the damaged portion to a regular shape, cleaning the area to be repaired thoroughly, applying cement concrete after erection of proper form work.)	metre	298.00	275.00	298.00	303.00	328.00	319.00	298.00	328.00	307.00	328.00	349.00

C. APPENDICES

PLINTH AREA RATES UNDER NAGALAND PWD

Sl.no	District	unit	Brick walling	RCC	First floor
1	KOHIMA	Sq m	15233.34	16529.80	14248.53
		Sq ft	1415.22	1535.67	1323.73
2	DIMAPUR	Sq m	13248.45	14375.98	12391.96
		Sq ft	1230.82	1335.57	1151.25
3	PEREN	Sq m	15233.34	16529.80	14248.53
		Sq ft	1415.22	1535.67	1323.73
4	WOKHA	Sq m	16077.72	18279.69	15038.32
		Sq ft	1493.67	1698.24	1397.11
5	PHEK	Sq m	17372.43	20873.47	16249.33
		Sq ft	1613.95	1939.21	1509.61
6	ZUNHEBOTO	Sq m	17110.31	20290.59	16004.16
		Sq ft	1589.60	1885.06	1486.84
7	MOKOKCHUNG	Sq m	15119.93	16740.79	14142.45
		Sq ft	1404.69	1555.27	1313.88
8	TUENSANG	Sq m	17620.30	21456.36	16481.18
		Sq ft	1636.98	1993.36	1531.15
9	MON	Sq m	15119.93	16740.79	14142.45
		Sq ft	1404.69	1555.27	1313.88
10	LONGLENG	Sq m	16727.80	19496.11	15646.38
		Sq ft	1554.06	1811.25	1453.60
11	KIPHIRE	Sq m	18630.47	24211.68	17426.04
		Sq ft	1730.83	2249.34	1618.93

The following percentages will be adopted over the plinth area cost of the building to find out the approximate cost of other sub-items of building:			
1	Site levelling and approach road	10%	
2	Internal water supply and sanitary installation	12.50%	
3	Internal Electrification	7.50%	
4	Rain water harvesting	1%	
5	Consultation fee (as & when required)	4%	
6	Work charge establishment (if required)	2%	On the total cost of all other items
7	Contingency	3%	
8	Deptt. Charges	13%	Above items



(ER.NIHOTO SEMA)
Engineer-In-Chief (NPWD)
Nagaland:Kohima

WEIGHTS OF MATERIALS AND WORKS

Material			Works		
Particulars	Kg/cu m	lbs. cu ft	Particulars	kg cu m	lbs, cu ft
Earth (ordinary)	1600	100	Brick masonry	1920	120
Sand dry	1600	100	Sundried brickwork	1760	110
Cinder (burnt coal)	800	50	Reinforced brickwork (R.B.)	2000	125
Surkbi	1120	70	Lime concrete with brick ballast	1920	120
Cement	1440	90	Lime concrete with stone ballast	2240	140
White lime slaked	640	40	Cement concrete	2240	140
Brick ballast	1200	75	R. C. C.	2400	150
Stone ballast (Hard)	1600	100	Asphalt concrete	2240	140
Lime stone	2400	150	stone masonry	2560	160
Sand stone	2240	140	Lime mortar	1760	Ito
Hard stone	2720	170	Cement mortar	1920	120
Marble	2560	160	Stone masonry dry	2080	130
Coal dust	960	60	Stone ballast consolidated as in roads	2080	130
Teak wood	640	40	Granite ashlar masonry	2560	160
Shisham wood	800	50	Rubble stone masonry	2320	145
Sal wood	800	50			
Deodar wood	640	40			
Cast iron	7200	450			
Wrought iron	7680	480			
Mild steel	7850	490			

<u>ROOFLOAD</u>					
Weight of Roofing Materials			Live Load in Floor		
Particular	kg/sq m	Ibs per sq ft	Type of Building	kg sq m	Ibs /cu ft
G.C.I. Sheet 24 gauge	7.0	1.42	Dwelling Houses, Hostel, Hospital Wards	200	40
G.C.I. Sheet 22 gauge	8.4	1.72			
A.C. Sheet 1/4" gauge	17.0	3.5	Offices, Schools, Entrance floor	390	80
Single Allahabad tiles with battens	83.00	17			
Double Allahabad tiles with battens	166.00	34	Assembly Halls, Cinemas, Theatres. Staircase	490	100
Mangalore tiles	68.40	14	Ware houses, Drill Halls. Workshops	730	150
Boarding 2.5 cm (1") thick	29.30	6			
Slates	34.20	7			
Country tiles Single with battens ...	68.40	14			
Thatch with frame 15 cm (6") ...	31.70	6.5	Note: If there is no stair-case leading to roof, live load on roof may be taken as 145 kg, sq m (30 Ibs sq ft).		

SAFE LOAD					
Safe Permissible Load on Masonry			Safe Permissible Load on Different Soils		
Particulars	Ton per sqm	tons per sq ft	Particulars	Ton per sq m	tons per sq ft
Sundried brick work	10	1			
Brick work in mud	20.0	2	Soft wet clay	2.5	0.25
Brick work in Lime mortar	30.0	3	Black Cotton Soil	5.0	0.5
Brick work in 1:3 Cement mortar	100.0	10	Moist clay	15.0	1.5
Brick work in 1:4	80.0	8	Alluvial earth loams	10.0	1.0
Brick work in 1:6	60.0	6	Compact clay nearly dry	20.0	2.0
Lime concrete with brick ballast	30.0	3	Dry compact clay of considerable thickness	30.0	3.0
Lime concrete with stone ballast	40.0	4	Loose sand in shifting riverbed	15.0	1.5
Cement concrete 1:1½:3	300.0	30	Compact sand	20.0	2.0
Cement concrete 1:2:4	250.0	25	Sandy gravel	25.0	2.5
Cement concrete 1:3:4	150.0	15	Compact gravel	80.0	8.0
Cement concrete 1:4:8	100.0	10	Moorum	30.0	3.0
Random rubble in Lime mortar	40.0	4	Granite Rock	150.0	15.0
Random rubble in Cement mortar 1:4	80.0	8			
Coursed rubble in Cement mortar 1:4	100.0	10			

CEMENT CONSUMPTION		CEMENT CONSUMPTION	
Description of item of work	Quantity of cement in bags (of 50 Kg each)	Description of item of work	Quantity of cement in bags (of 50 Kg each)
Cement Concrete		Flooring	
C.C. (1:5:10)	2.6 / cum	C.C. Flooring in 1:2:4, 40 mm thick	0.34 / Sqm
C.C. (1:4:8)	3.4 / cum	C.C. Flooring in 1:2:4, 25 mm thick	0.25 / Sqm
C.C. (1:3:6)	4.4 / cum	Kota Stone flooring (25 to 30 mm thick)	0.14 / Sqm
C.C. (1:2:4)	6.4 / cum	Pre-cased marble/mosaic/cement tiled flooring on lime mortar bedding	0.17 / Sqm
C.C. (1:1.5:3)	8 / cum	Pre-cased marble/mosaic/cement tile in skirting and dado on cement mortar base	0.28 / Sqm
C.C. (1:1:2)	12.2 / cum	Terrazzo or Mosaic in-situ flooring 40mm thick (28+12) with ordinary cement	0.38 / Sqm
Cement Mortar		Cement Plaster	
1:1	20.4 / cum	20 mm thick (1:3) in single coat	0.25 / Sqm
1:2	13.6 / cum	20 mm thick (1:4) in single coat	0.18 / Sqm
1:3	10.2 / cum	20 mm thick (1:5) in single coat	0.14 / Sqm
1:4	7.6 / cum	20 mm thick (1:6) in single coat	0.112 / Sqm
1:5	6.2 / cum	12 mm thick (1:6) in single coat	0.072 / Sqm
1:6	5 / cum	12 mm thick (1:5) in single coat	0.10 / Sqm
Brick Masoary in Cement Sand Mortar of following proportions		12 mm thick (1:4) in single coat	0.11 / Sqm
1:3	2.6 / cum	12 mm thick (1:3) in single coat	0.15 / Sqm
1:4	1.9 / cum	6 mm thick (1:4) in single coat	0.055 / Sqm
1:5	1.6 / cum	6 mm thick (1:3) in single coat	0.25 / Sqm
1:6	1.3 / cum	20 mm thick (1:4) in two coats (15mm +5mm)	0.19 / Sqm
Half Brick Masonary (115mm thick) in C.M. of following proportions		Pointing (in C.M. 1:3)	
1:3	0.30 / Sqm	Ruled pointing on brick work	3.06 bags per 100 Sqm
1:4	0.22 / Sqm	Raised pointing on brickwork	4.08 bags per 100 Sqm
Rubble Masonry		Ruled pointing on tiled brickwork	4.7 bags per 100 Sqm
Random Rubble in C.M. (1:6)	1.7 / cum		
Coarse Rubble in C.M. (1:6)	1.5 / cum		

STATEMENT SHOWING QUANTITIES OF CEMENT, SAND AND AGGREGATE ETC. TO BE USED IN DIFFERENT ITEMS OF WORKS PROVIDED IN THE SCHEDULE.

SL. No	Description of item	Unit	Cement (bags of 50 kg)	Sand (Cum)	Broken Stonechips (Cum)	Boulder (Cum)
	MORTAR					
1	Cement mortar prop. 1:2	Cum	13.6	0.95		
2	Cement mortar prop. 1:3	Cum	10.2	1.07		
3	Cement mortar prop. 1:4	Cum	7.6	1.07		
4	Cement mortar prop. 1:6	Cum	5.0	1.07		
	CEMENT CONCRETE WORK					
5	Cement mortar prop. 1:5:10	Cum	23.6	0.47	0.89	
6	Cement mortar prop. 1:4:8	Cum	3.4	0.47	0.89	
7	Cement mortar prop. 1:3:6	Cum	4.4	0.47	0.89	
8	Cement mortar prop. 1:2:4	Cum	6.4	0.445	0.89	
9	Cement mortar prop. 1:1.5:3	Cum	8.0	0.425	0.85	
	DAMP PROOF COURSE					
10	25MM THICK c.c. 1:2:4	10 Sqm	1.6	0.111	0.22	
	BRICK WORK					
11	Brick work in cement mortar 1:4	Cum	1.90	0.275		
12	Brick work in cement mortar 1:6	Cum	1.25	0.275		
13	125mm thick brick work in cement mortar 1:3	10Sqm	2.13	0.34		
14	75mm thick brick work in cement mortar 1:3	10Sqm	1.85	0.20		
	STONE MASONRY WORK					
15	Random rubble masonry in cement mortar 1:6	Cum	1.65	0.33	1.16	
16	Course rubble masonry in cement mortar 1:6	Cum	1.50	0.30	1.37	
17	Dry Stone masonry	Cum			1.37	
18	Stone work in plain ashlar Cyclopean in cement mortar 1:6	Cum	1.50			

SL. No	Description of item	Unit	Cement (bags of 50 kg)	Sand (Cum)	Broken Stonechips (Cum)	Boulder (Cum)
	FLOORING					
19	62mm thick C.C. 1:3:6	10 Sqm	2.54	0.275	0.52	
20	62mm thick C.C. 1:4:8	10 Sqm	2.00	0.275	0.52	
21	(a) 20mm thick C.C. topping 1:1:2	10 Sqm	2.40	0.075	0.16	
	(b) 25mm thick C.C. topping 1:1:4	10 Sqm	3.20	0.100	0.21	
22	25mm thick C.C. topping 1:2:4	10 Sqm	2.00	0.111	0.22	
23	Cement plaster skirting upto 30cm with cement mortar 1:3	10 Sqm	2.90	0.28		
24	Cement concrete pavement 1:2:4	Cum	6.40	0.445	0.89	
25	Tarrazo tiles on 12mm thick cement mortar prop 1:3	10 Sqm	2.224	0.13		
26	White glazed tiles on 12mm cement mortar 1:3	10 Sqm	0.21	0.01		
	WALLING					
27	Crete walling with cement mortar 1:6 Prop :20 mm thick each side	10 Sqm	2.24	0.48		
	FINISHING					
28	12mm cement plaster 1:3	10 Sqm	1.47	0.154		
29	12mm cement plaster 1:4	10 Sqm	1.10	0.154		
30	12mm cement plaster 1:6	10 Sqm	0.72	0.154		
31	20mm cement plaster 1:6	10 Sqm	1.12	0.24		
32	6mm cement plaster 1:3	10 Sqm	0.734	0.08		
33	Neat cement punning	10 Sqm	0.44			
	POINTING					
34	Pointing on brick work with cement mortar 1:3	10 Sqm	0.306	0.032		
35	Pointing on stone work with cement morar 1:3	10 Sqm	0.235	0.025		

SL. No	Description of item	Unit	Cement (bags of 50 kg)	Sand (Cum)	Broken Stonechips (Cum)	Boulder (Cum)
	DRAINAGE					
36	100mm open surface drain with C.C. 1:3:6	Metre	0.29	0.028	0.04	
37	150mm open surface drain with C.C. 1:3:6	Metre	0.33	0.033	0.045	
38	225mm open surface drain with C.C. 1:3:6	Metre	0.435	0.435	0.059	
	SANITARY INSTALLATION					
39	Fixing water closet flusing cistern & brackets, etc. including cutting and making good the walls and floors	each	0.1			
40	Fixing lipped front urinal basin, flusing cistern, brackets etc. cutting and making good the walls and floors.					
	(a) One urinal basin with 5 litres C.I. Automatic flusing cistern.	each	0.05			
	(b) Range of two urinal basin with 10 litres C.I. Automatic flusing cistern.	each	0.08			
	(c) Range of three urinal basin with 10 litres C.I. Automatic flusing cistern.	each	0.13			
	(d) Range of four urinal basin with 15 litres C.I. Automatic flushing cistern.	each	0.19			
41	Fixing one piece construction white squatting plate urinal etc Range of two squatting plate with 10 litres C.I. Automatic flushing cistern	each	0.20			
42	Fixing wash basin (Lavatory -basin) with brackets etc. including cutting & making good the walls.	each	0.05			
43	Fixing pedestal for wash basin recessed at the back for reception of pipes and fittings.	each	0.03			
44	Fixing asbestos cement soils waste and vent pipe in cement mortar 1:2					
	(a) 100mm or 80mm	100 mtr	0.30			
	(b) 50mm dia	100 mtr	0.15			
45	Fixing wooden plugs & standard holder bat clamps comprising of two semi -circular halves of flat iron & cast iron based screwed on wooden plugs 100mm,80mm or 50mm dia	each	0.0004			

SL. No	Description of item	Unit	Cement (bags of 50 kg)	Sand (Cum)	Broken Stone chips (Cum)	Boulder (Cum)
47	Fixing A.C. bend with Cement mortar 1:2					
	(a) 100mm or 80mm dia	each	0.002			
	(b) 500mm dia	each	0.001			
48	Fixing double equal or unequal A.C and junction in cement mortar 1:2					
	(a) 100x100x100x100mm	each	0.004			
	(b) 80x80x80x80mm	each	0.004			
	(c) 50x50x50x50mm	each	0.002			
49	Fixing single equal or unequal junction with cement mortar 1:2					
	(a) 100x100x50x50mm	each	0.003			
	(b) 80x80x80mm					
	(c) 80x80x50x50mm					
	(d) 80x80x50mm					
	(e) 50x50x50mm					
50	Fixing plain A.C. plain invert bend with Cement mortar 1:2	each	0.002			
51	Fixing A.C. offset with Cement mortar 1:2	each	0.002			
	(a) 100mm dia with any projection	each	0.002			
	(b) 50mm dia with any projection	each	0.001			
52	Fixing A.C. loose socket with cement mortar 1:2					
	(a) 100mm or 80mm dia	each	0.002			
	(b) 50mm dia	each	0.001			
53	Fixing A.C. terminal guard with cement mortar 1:2					
	(a) 100mm or 80mm dia	each	0.002			
	(b) 50mm dia	each	0.001			
	WATER SUPPLY					
54	Fixing G.I. Pipe including cutting and making good the walls					
	(a) 15mm dia	100 mtr	0.10			
	(b) 20mm dia	100 mtr	0.12			
	(c) 25mm dia	100 mtr	0.14			
	(d) 32mm dia	100 mtr	0.15			
	(e) 40mm dia	100 mtr	0.16			

STATEMENT SHOWING QUANTITIES OF PAINT AND DISTEMPER ETC. TO BE USED IN DIFFERENT ITEMS OF WORKS PROVIDED IN THE SCHEDULE

Sl.No	Description	Unit	Quantity (kg)
1	Distempering with dry distemper (two or more coats)with whiting 1 Kg	10 Sqm	1.5 Kg
2	Distempering with dry distemper (one or more coats)	10 Sqm	1.0 Kg
3	Distempering with oil bound distemper (two or more coats) with distemper primer 0.71 ltrs	10 Sqm	1.5 Kg
4	Distempering with oil bound distemper (onle or more coats)	10 Sqm	1.0 Kg
5	Applying one coat of distemper Primer	10 Sqm	0.7 Litre
6	Applying one coat of distemper Primer	10 Sqm	0.81 Litre
7	Applying one coat of primer on wood work.	10 Sqm	0.75 Litre
8	Applying one coat of primer on steel work	10 Sqm	0.54 Litre
9	Painting two o more coats with ready mixed paint	10 Sqm	1.25 Litre
10	Painting one more coats with ready mixed paint	10 Sqm	0.75 Litre
11	Painting two cats on G.I. Sheets with ready mixed paint	10 Sqm	0.80 Litre
12	Painting one or more coats on G.I. Sheets with ready mixed paint	10 Sqm	0.46 Litre
13	Painting two or more coats with enamel paing	10 Sqm	1.16 Litre
14	Painting one or more coats with enamel paing	10 Sqm	0.70 Litre
15	Painting tow or more coats with Aluminium paint	10 Sqm	0.80 Litre
16	Painting one or more coats with Aluminium paing	10 Sqm	0.46 Litre
17	Painting two or more coats with plastic emulsion paint	10 Sqm	1.21 Litre
18	Painting more or more coats with plasti emulsion paints	10 Sqm	0.73 Litre
19	Vernishing two or more costs with copal varnish	10 Sqm	1.16 Litre
20	Under coat of flatting varnish	10 Sqm	0.70 Litre
21	Varnishing one or more coats with copal varnish	10 Sqm	0.70 Litre
22	Oilling two or more coats with wood preservative (indocoat)	10 Sqm	1.16 Litre
23	Oilling with more or coats with wood preservative (indocoat)	10 Sqm	0.70 Litre
24	French Spirit polishing two or more coats	10 Sqm	1.16 Litre
25	French Spirit polishing one or more coats	10 Sqm	0.70 Litre
26	Polishing on wood work with wax polish	10 Sqm	0.25 Kg
27	Finishing wall with water proofing cement paints (three or more coats)	10 Sqm	5.47 Kg
28	Finishing wall with water proofing cement paint (one or more coats)	10 Sqm	2.20 Kg

PRACTICAL DATA AND INFORMATION

The following data and information are only approximate and vary according to the location nature of works, structure, specifications, methods of construction, etc. For general idea and for preliminary estimate these will be helpful.

BUILDING WORKS

1	Cost of labour and materials	
	(i) Cost on account of labour	30% to 35% of the whole cost.
	(ii) Cost on account of materials	70% to 65% of the whole cost.
2	Direct and overhead cost	
	Direct cost on actual work (job)	85% of the Whole cost.
	Overhead cost due to establishment, supervision, incidentals, etc.	15% of the whole cost.
3	(i) Cost of foundation and plinth	10% to 15% of the whole cost.
	(ii) Cost of superstructure	90% to 85% of the whole cost.
4	Cost of second storey	85% to 90% of the first storey.
5	Cost of different parts or percentage break up of building (excluding sanitary and electrical works)	
	Earthwork in excavation and filling	½ % of the whole cost.
	Concrete in foundation	5% of the wholecost.
	Damp proof course	1 % of the whole cost.
	Brickwork	34 % of the whole cost.
	Roofing	20 % of the whole cost.
	Flooring	6 % of the whole cost.
	Doors and windows	16 % of the whole cost.
	Plastering and pointing	10 % of the whole cost.
	White washing, colour washing, painting etc.	2 % of the w hole cost.
	Miscellaneous	5% of the whole cost.
	Total	100% of the whole cost.
6	Cost of sanitary and electrical works	
	Sanitary and water supply installation	8% of the building cost.
	Electric installation excluding fan	8% of the building cost.

7	Cost of materials and labour required for building, percentage distribution -	
	(i) Cost of brick	22 % of the whole cost.
	(ii) Cost of cement	12% of the whole cost.
	(iii) Cost of steel bars	1 W/o of the whole cost.
	(iv) Cost of timber	10% of the whole cost.
	(v) Cost of other materials	14% of the whole cost.
	(vi) Wages of labour	30% of the whole cost.
	(vii) Workcharged establishment	2% of the whole cost.
	Total	100% of the whole cost.
	<i>Note- If the estimated cost of the building and rates of materials are known the approximate quantities of materials can be calculated. Cost can be calculated approximately on plinth area basis.</i>	
8	Materials required on plinth area basis for single storey building	
	(i) Brick	500 nos. per sq m (500 nos. % sq ft) of plinth area
	(ii) Cement	1 .5 bags per sq m (15 bags per % sq ft) of plinth area
	(iii) Mild steel bars	1.25 kg per sq m (2 ½ cwt per % sq ft) of plinth area
	(iv) Coal (slack or dust) for [burning bricks]	1.5 q per sq m (1½ tons per % sq ft) of plinth area
9	Coal (slak or dust for burning bricks)	18 tonne per lakh of bricks (output 60% I-class brick)
10	G.I. sheet requirement for shed (24 gauge)	1 tonne per 1200 sq ft (0.85 q per sq m) of plinth area
11	Angle iron requirement for roof truss shed	4 ½ cwt% sq ft or 2½ ton % sq ft. (0.5 q/sq m or 2.5 tonne % sq m) of plinth area.

SPECIFICATION FOR WORKS

Materials of Reinforced Cement Concrete

I Aggregate :-

When coarse aggregate brought to the site in ungraded single size coarse aggregates of different nominal sizes, conforming to the requirements vide **Table I** given below, shall be mixed at site with the other ingredients of concrete either directly in the mixture or on the platform in the proportion indicated in table II below.

TABLE NO. I

I.S.size Designation	Percentage passing for single size aggregate of nominal size					
	63mm	40mm	20mm	16mm	12.5mm	10mm
1	2	3	4	5	6	7
40mm	0 -30	85 -100	100			
20mm	0 -5	0 - 20	85 - 100	100		
10mm		0 - 5	0 - 20	0 - 30	0 - 45	85 - 100

TABLE NO. II

Cement concrete mix	Nominal size or aggregate	Parts of aggregate of size 40mm	Parts of aggregate of size 20mm	Parts of aggregate of size 10mm
1	2	3	4	5
C.C.1:5:10	40mm	7/1.5	2/1.5	
C.C.1:4:8	40mm	6	2	
C.C.1:3:6	40mm	4 /1.5	1/1.5	
C.C.1:2:4	40mm	2/1.5	1	1.5
C.C.1:2:4	20mm	-	3	1
C.C.1:1.5:3	20mm	-	2	1

Note :-

- 1 The proportions indicated in table II above are by volume. These proportions may be varied some what by Engineer -In -Charge after making seive analysis of the aggregates brought to this site, when considering necessary for obtaining better density and strength of concrete. No adjustment in the rates shall be made, for any variation in proportions so ordered.
- 2 The aggregate shall be measured in stacks and paid for after making a deduction of 7.5% of the gross measurement of stacks in respect of aggregate of nominal size 40mm and above. In respect of aggregate of size below 40mm no deduction shall be made from the gross measurements of stacks.

2 **SAND :-**

- (a) The sand shall not contain more than 8% of silt as determined by field test with measuring cylinder.
(b) i) Fineness modulus of coarse sand shall not be less than 2.5.
ii) Fineness modulus of fine sand shall not be less than 1.0.

3 **WATER :-**

The quantity of water to be used for each mix of 50kg cement, to be the required consistency shall not be more than :-

Grade of concrete	Mix	Max. quantity of water per 50kg of cement
M10	1.3.6	34 Litre
M15	1.2.4	32 Litre
M20	1.1.5.3	30 Litre
M25	1.1.2	27 Litre

In the case of vibrated concrete the limit specified may be suitably reduced to avoid Segregation. The quantity of water shall be regulated by carrying out regular slump test described below:-

Sl. No.	Type of Work	Slump when vibrators are used	Slump when vibrators are not used
1	Mass concrete in foundation, footing retaining walls and pavements	100mm to 25mm	50mm to 75mm
2	Thin sections of flooring of less than 75mm thickness	25mm to 40mm	75mm to 100mm
3	Beams, Slabs and columns simply reinforced	25mm to 40mm	100mm to 125mm
4	Thin R.C.C. section or section with congested steel	40mm to 50mm	125mm to 150mm

Curing of concrete:- After the concrete has begun to harden i.e. about 1 to 2 hours after its laying, it shall be protected from quick drying with moist gunny bags, sand or any other materials approved by the Engineer -In -charge. After 24 hours of laying of concrete the surface shall be cured by flooding with water of minimum 25mm depth, or by covering with wet absorbent materials. The curing shall be done for a minimum period of 7 to 12 days in summer and 14 days in winter in Nagaland when normal (Portland) cement is used.

Bricks required for masonry, shall be thoroughly soaked in clean water for at least an hour in brick lined tanks of sufficient size immersed in water is an indication of through soaking of bricks. The soaked bricks shall be kept on wooden planks or bricks platform to avoid earth being smeared on them

Curing for cement plaster :- Curing shall be started as soon as the plaster has hardened sufficiently not to be damaged when watered. The plaster shall be kept wet for a period of at least 7 days.

4 PROPERTIES OF BARS USED AS REINFORCEMENT M.S. ROUND BARS OR M.S. RIBBED TORSTEEL

Bar size (mm)	Area (Sq.cm)	Primetre (cm)	Weight per metre (Kg)	Length per tonne (Metre)	Area in mm2
6	0.283	1.885	0.222	4505	28.26
8	0.503	2.513	0.395	2532	50.24
10	0.785	3.142	0.616	1623	78.50
12	1.131	3.77	0.888	1126	113.04
16	2.011	5.027	1.579	633	200.96
20	3.142	6.283	2.466	406	314.00
25	4.909	7.854	3.854	259	490.63
32	8.042	10.05	6.313	158	803.84
40	12.57	12.57	9.864	101	1256.00

Cross sectional areas of bars at specific spacing

Bar size (mm)	Bar spacing in mm									
	75	100	125	150	175	200	225	250	275	300
6	337	283	226	188	162	141	126	113	193	94
8	670	503	402	335	287	251	223	201	183	168
10	1047	785	628	524	449	393	349	314	286	262
12	1508	1131	905	754	646	565	503	452	411	377
16	2681	2011	1608	1340	1149	1105	894	804	731	670
20	4189	3142	2513	2094	1795	1571	1396	1257	1142	1047
25	6545	4909	3927	3272	2805	2454	2182	1963	1785	1636
32		8042	6434	5362	4596	4021	3574	3217	2925	2681
40	-	-	10053	8378	7181	6283	5585	5027	4570	4189

Requirement of materials in Bituminous works

Sl. No.	MORT & H No.	Description of Item	Unit	Aggregate		Bitumen (Kg)	Cement (Bags)	Sand (Cum)
				Size in mm	cum			
1	502	Prime Coat with Emulsion	10sqm			6.00		
2	503	Tack Coat with emulsion	10sqm			2.00		
3	504	Bituminous Macadam	cum	25.0-10.0	0.57	72.44		
				10-05	0.57			
				5 and below	0.28			
4	505	Bituminous Penetration Macadam						
		Type-A 50mm thick Key aggregate	10sqm	45-2.86	0.60	50.00		
				22.4 -2.8	0.15			
		Type-B 75mm thick Key aggregate	10sqm	63-2.86	0.90	50.00		
				26.5 -2.8	0.18	68.00		
5	506	Built-up Spray Grout (BUSG) Key aggregate	10sqm	53-2.8	1.00	30.00		
				22.4-2.8	0.13			
6	507	Dense Graded Bituminous Macadam	cum	25-10	0.44	98.10		
				10-05	0.41			
				5 and below	0.59			
7	508	Semi-Dense Graded Bituminous Concrete	cum	9.5-4.75	0.83	115.385		
				4.75 and below	0.60			
8	509	Bituminous Concrete	cum	13.2-10.0	0.45	117.80		
				10.0-5.0	0.37			
				5 and below	0.64			
9	510	Surface Dressing	10sqm	13.0-0.00	0.10	10.00		
10	511	Open-Graded Premix Surfacing	10sqm	13.2-5.60	0.27	14.60		
11	512	Close-Graded Premix Surfacing/Mixed Seal Surfacing						
		Type - A	10sqm	11.2-0.09	0.27	21.95		
		Type - B	10sqm	13.2-0.09	0.27	21.95		
12	513	Seal Coat						
		Type - A	10sqm	6.70-0.00	0.09	9.80		
		Type - B	10sqm	6.70-0.01	0.06	6.80		
13	515	Mastic Asphalt with 85/25 or 30/40	10sqm			57.14		
				2.36-0.075	0.111			
		Lime stone dust filler with calcium content			0.103			
				13.2-6.3	0.157			

		Pre-coated stone chips		13.2-0.00	0.006	0.143		
14	516	Slurry Seal	10sqm					
		Case-I 5mm thick						
		Residual Binder				12.10		
		Fine Aggregate		4.75-0.00	0.064			
		Filler		(Cement)	2.20 Kg.			
		Case-II 3mm thick						
		Residual Binder				8.58		
		Fine Aggregate		3.00 and below	0.037			
		Filler		(Cement)	1.32 Kg			

Conversion factor for other materials

SI No	Description	Unit	Weight per Cum in M.ton
1	Boulder	Cum	2.40
2	Stone Metal 90 mm size	Cum	2.40
3	Stone metal 63 mm size	Cum	2.40
4	Stone metal 53 mm size	Cum	2.40
5	Stone metal 40 mm size	Cum	2.40
6	Stone metal 22.4 mm size	Cum	2.20
7	Stone metal 20 mm size	Cum	2.20
8	Stone metal 13.2 mm size	Cum	2.10
9	Stone metal 12 mm size	Cum	2.10
10	Stone metal 10 mm size	Cum	2.10
11	Sand	Cum	1.80
12	Loose Earth	Cum	1.80

Requirement of materials in WBM works

Sl. No.	MORT & H No.	Description of Item	Unit	Aggregate		Bitumen (Kg)	Cement (Bags)	Sand (Cum)					
				Size in mm	cum								
1	401	GSB (Plant mix methed)	Cum	53 mm to 9.5 mm @ 50 %	0.64								
				9.5 mm to 2.36 mm @ 20 %	0.25								
				2.36 mm below @ 30 %	0.38								
		Grading No II	Cum	26.5 mm to 9.5 mm @ 35 %	0.44								
				9.5 mm to 2.36 mm @ 25 %	0.32								
				2.36 mm below @ 30 %	0.38								
		Grading No III	Cum	9.5 mm to 4.75 mm @ 35 %	0.44								
				4.75 mm to 2.36 mm @ 12.5 %	0.16								
				2.36 mm below @ 52.5 %	0.67								
		2	401	GSB (Mix in place methed)	Cum	53 mm to 9.5 mm @ 50 %	0.64						
						9.5 mm to 2.36 mm @ 20 %	0.25						
						2.36 mm below @ 30 %	0.38						
Grading No II	Cum			26.5 mm to 9.5 mm @ 35 %	0.44								
				9.5 mm to 2.36 mm @ 25 %	0.32								
				2.36 mm below @ 30 %	0.38								
Grading No III	Cum			9.5 mm to 4.75 mm @ 35 %	0.44								
				4.75 mm to 2.36 mm @ 12.5 %	0.16								
				2.36 mm below @ 52.5 %	0.67								
3	402			Lime stabilization for improving sub grade	Cum	Lime	0.05 M.tonne						
						4	402	Lime treated soil sub grade	Cum	Lime	0.05 M.tonne		

5	404	WBM						
		Grading No I	Cum	90 mm to 45 mm	1.21			
		Grading No II	Cum	63 mm to 45 mm	1.21			
		Grading No III	Cum	53 mm to 22.4 mm	1.21			
		Stone Screening						
		Type A for Gr. I	Cum	13.2 mm	0.27			
		Type A for Gr. II	Cum	13.2 mm	0.12			
		Type B for Gr. I	Cum	11.2 mm	0.20			
		Type A for Gr. II	Cum	11.2 mm	0.18			
		Moorum for Grading I	Cum		0.30			
		Moorum for Grading II & III	Cum		0.22			
		Binding material						
		Grading No I	Cum		0.08			
		Grading No II	Cum		0.06			
6		PCC 1:3:6	Cum	40 mm	0.90	0.00	4.60	0.45
7		Brick Masonry with Cement Mortar 1:3	Cum	Bricks in Nos	500.00	0.00	2.44	0.252
8		Coarse rubble stone Masonry	Cum	Stone	1.10			
				Size stone 0.24mx0.24mx0.39m	7 Nos	0.00	3.06	0.315
9		Random rubble stone masonry	Cum	Stone	1.257	0.00	3.16	0.325
10		PCC M-15	Cum	40 mm	0.54			
				20 mm	0.27			
				10 mm	0.09	0.00	5.506	0.45
11		PCC M-20	Cum	40 mm	0.36			
				20 mm	0.36			
				10 mm	0.18	0.00	6.880	0.45
12		RCC M- 20	Cum	20 mm	0.54			
				10 mm	0.36	0.00	6.946	0.45
13		PCC M -25	Cum	40 mm	0.36			
				20 mm	0.36			
				10 mm	0.18	0.00	7.986	0.45
14		RCC M- 25	Cum	20 mm	0.54			
				10 mm	0.36	0.00	8.066	0.45
15		Plastering with Cement Mortar 1 :3	10 Sqm				1.469	0.151

CONVERSION FROM ONE SYSTEM TO ANOTHER

From F.P. Unit to Metric Unit			From Metric to F.P. Unit		
<i>To Convert Foot Pound unit</i>	<i>To Metric unit</i>	<i>Multiply by Conversion Factor</i>	<i>To Convert Metric unit</i>	<i>To Foot Pound unit</i>	<i>Multiply to Conversion Factor</i>
Lengths					
Mile	km	1.609344	km	Mile	0.62137
Fg	km	0.201168	km	yd	1093.61
Yd	m	0.9144	Metre	yd	1.09361
Ft	m	0.3048	Metre	Ft	3.28084
In.	m	0.0254	Metre	In.	39.3701
In.	cm	2.54	cm	In.	0.394
Area					
sq mile	Hectare (ha)	258.999	Hectare (ha)	Acre	2.47105
sq mile	sq km	2.59	sq km	sq mile	0.39
Acre	Hectare	0.404687	Hectare	sq yd	11959.9
Acre	sq m	4046.869	sq m	sq yd	0.000247
sq yd	sq m	0.83613	sq m	sq yd	1.196
sq ft	sq m	0.0929	sq m	sq ft	10.7639
sq in.	sq cm	6.45137	sq cm	sq in.	0.155
Volume					
Cu yd	cu m	0.76455	cu m	cu yd	1.30795
Cu ft	cu m	0.028317	cu m	cu ft	35.3147
Cu in.	cu cm	16.3862	cu cm	cu in.	0.06103
Acre ft	Hectare m	0.1234	Hectare m	Acre ft	8.107
Capacity					
cu yd	Kilolitre (kl)	0.76453	Kilo litre (kl)	cu yd	1.308
cu ft	Litre (l)	28.316	Litre (l)	cu ft	0.035315
gallon (uk)	Litre (l)	4.546	Litre (l)	gallon (uk)	0.2198

Weight					
Ounce	gram	25.35	gram	ounce	0.035
Tola	gram	11.66	gram	tola	0.086
Seer (Ind)	kg	0.9331	kg	Seer (Ind)	1.0717
Maund (Ind)	kg	37.3242	kg	Maund (Ind)	0.27
Maund (Ind)	Quintal	0.373242	Quintal	Maund (Ind)	2.6792
Pound	kg	0.4536	kg	Pound	2.20462
cwt	Quintal	0.50802	Quintal	cwt	1.97
cwt	kg	50.802	kg	cwt	0.0197
Ton	Metric Tonne	1.016	Metric Tonne	Ton	0.9842
<i>Note-Multiply the foot pound Figure by the conversion factor to get the Metric Unit figure</i>			<i>Note-Multiply the metric unit figure by the conversion factor to get the Foot Pound unit Figure</i>		

METRIC SYSTEM				
Area		Volume		
100 sq milli m = 1 sq centimetre		1000 cu mill metre = 1 cu metre		
100 sq centi m = 1 sq deci metre		1000 cu centi metre = 1 cu deci metre		
100 sq deci m = 1 sq metre				
100 sq metre				
= 1 acre or sq deka metre 100 acres				
= 1 hectare or sq hecto metre		1000 cu deci metre = 1 cu metre		
		1 cu metre(cu m) = 10,00,000 cu centi metre (cu cm)		
100 hectares				
= 1 sq kilo metre				
= 10,00,000 sq m				
1 hectare				
= 100 m x 100 m				
= 10000 sq m				
1 sq kilo metre				
=1000 m x 1000 m				
=10,00,000 sq m				
= 100 hectare.				

LENGTH CONVERSION TABLE

Inch	Milimetre (mm)	Foot	Metres (m)	Note
1/16	1.5875	1	0.3048	1 metre = 1000 mm.
1/8	3.1750	1½	0.4572	1 metre = 100 cm.
1/4	6.3500	2	0.6096	1 kilo m= 1000 metre.
3/8	9.5250	2 ½	0.7620	
1/2	12.7000	3	0.9144	
5/8	15.8750	3 ½	1.0668	
3/4	19.0500	4	1.2192	1 metre = 3.28084 ft.
7/8	22.2250	4 ½	1.3716	1 metre = 39.3701 in.
1	25.4000	5	1.5240	1 cm = 0.3937 in.
1¼	31.7500	6	1.8288	1 foot = 30.48 in.
1½	38.1000	7	2.1336	1 inch = 2.54 cm.
1¾	44.4500	8	2.4384	1 mile = 1.609344 kilo m
2	50.8000	9	2.7432	
2½	63.5000	10	3.0480	
3	76.2000	20	6.0960	1 kilo = 0.62137 m
4	101.6000	30	9.1440	
5	127.0000	40	12.1920	<i>Illustration</i>
6	152.4000	50	15.2400	(a) 4' = 1.2192 m
7	177.8000	60	18.2880	6" = 0.1524 m
8	203.2000	70	21.3360	
9	228.6000	80	24.3840	4'-6" = 1.3716 m
10	254.0000	90	27.4320	= 1.372 m
11	279.4000	100	30.4800	
12	304.8000			(b) 2' = 0.6096 m
				3" = 0.0762 m
				1/16"= 0.001587m
				2'-3 1/16"=0.667386 m. = 0.667 m.

For practical purpose, 1 litre = 1 kg = 1000 gram, 1000 cu m = 10 cu deci metre

1 cu m = 1000 litre = 1 kilo litre

1 Kilogram = 1000 gram

1 quintal = 100 kilogram

1 tonne = 1000 kilogram

1 tonne = 10 quintal

METRIC SCALES, SURVEY INSTRUMENTS, CONVERSION TABLES, ETC.

METRIC SCALES	
1. Topographical Maps	2. Town Surveys
1 cm=2.5 km (R.F.-1/250000)	2 cm =1 km (R.F.-1/50000)
1 cm= 1 km (R. F.- 1/ 100000)	4 cm= 1 km (R.F.-1/25000)
1cm =0.5 km (R. F.-1/50000)	10 cm= 1 km (R.F.-1 / 10000)
	1 cm= 1 cm = 500 m (R.F.-1/5000)
3. Large Scale Surveys and Layouts	4. Preliminary Sketch Drawings
1 cm =20 m (R.F.-1/2000)	1 cm =5 m (R.F.-1/ 500)
1 cm= 10 m (R.F.-1/ 1000)	1 cm =2 m (R.F.-1 /200)
1 cm= 5 m (R.F.- 1/ 500)	1 cm= 1 m (R.F.-1/ 100)
5. Plans, Elevations and Sections of Buildings, etc.	6. Detailed Drawings, Large Scale Drawings
1 cm =2 m (R.F.-1/200)	1 cm =20 cm (R.F.-1/20)
1 cm = 1 m (R.F.-1/100)	1 cm= 10 cm (R.F.-1/ 10)
1 cm =0.5 m (R.F.-1/50)	1 cm= 5 cm (R.F.-1 /5)
	1 cm =2.5 cm (R.F.-1/2.5)
	1 cm =2 cm (R.F.-1/2)
	1 cm = 1 cm (R.F.-1)
SURVEY INSTRUMENTS	
1. Measuring Tapes-	2. Measuring Chains
Metallic Tape	
(i) 30 metre length- 1 cm division.	(i) 30 metre length-100 links of 30 cm each with tag at every 10th link, i.e., 3 metre.
(ii) 20 metre length- 1 cm division.	(ii) 20 metre length-100 links of 20 cm each with tag at every 10th link, i.e. 2 metre.
<i>Steel Tape</i>	3. Levelling Staff-Metre is divided into 200 divisions of 5 mm (.5 cm) each
(i) 50 metre length-5 mm division.	<i>Telescopic type</i> , consists of three pieces-1.5 m + 1.25 m + 1.25 m =4 m.
(ii) 30 metre length-5 mm division.	<i>Folding Type</i> , detachable with locking devise at the back, consists of two pieces-2 m+2 m=4 m.
(iii) 20 metre length-5 mm division.	<i>Single piece type</i> - 4 m.

CONVERSION FACTOR

To convert one unit to another unit, multiply by the respective factor

Strength of Materials and Miscellaneous

		FPS units	Metric Units	Conversion Factor	
				<i>FPS to Metric</i>	<i>Metric to FPS</i>
1	Weight per unit length	lb/ ft	kg/ m	1.488	0.672
		ton/ft	tonne/ m	3.333	0.3
2	Stress (tensile, compressive, shear, bearing bond etc.)	lb/sq in	kg/sq cm	0.070	14.223
		lb/sq ft	kg/ sq m	4.882	0.205
		ton/ sq in	kg/ sq cm	1.575	0.635
3	Bearing Pressure	tons/sq ft	tonne/sq m	10.937	0.0914
		lb/sq ft	kg/ sq m	4.882	0.205
4	Bending Moment and Moments	m-lb	kg-cm	1.152	0.868
		ft-lb	kg-cm	13.853	0.0723
		ft-lb	kg-m	0.138	7.233
		in-ton	kg-m	25.803	0.0387
5	Section Modulus	in ³	cm ₃	16.387	0.061
6	Moment of Inertia	in ₄	cm ₄	41.623	0.024
7	Radius of Gyration	in	cm	2.540	0.3940
8	Speed and Velocity	mile/ h	km/h	1.609	0.6214
		ft /s	m/s	0.305	3.281
9	Acceleration	ft per sec.	metre	0.305	3.281
		per sec.	per second		
			per second		
10	Work and Energy	foot pound	kg-m	0.138	7.233
11	Power	hp	Metric hp	1.014	0.9862
		hp	kw	0.746	1.341

12	Density	lb/cu ft	kg/cu m	16.018	0.0624
		lb/cu in	g/cu m	27.680	0.0361
13	Discharges in rivers, channels, sec. etc.	cu ft/sec	cu m /sec.	0.0283	35.315
		gl. / sec.	l/ sec.	4.546	0.2198
14	Catchment Area	sq miles	sq-km	2.59	0.386
15	Land Area	acre	hectare	0.405	2.471
16	Storage in reservoir, Depth of water on area	acre feet	hectare m	0.1234	8.107
		{gl. / sq ft	l/sq m	48.934	0.2043
17	Reduced Levels	ft above mean sea level	metre above mean sea level	0.305	3.281
18	Gradient	ft/ mile	m/km	0.1894	5.28
Rate Conversion Factor from one system to other system					
	<i>F.P. System</i>	<i>Metric System</i>		<i>Conversion FPS to Metric</i>	<i>Factor Metric to FPS</i>
	Rs. per % cu ft	Rs. per cu m		0.35315	2.8317
	Rs. per % cu ft	Rs. per % cu m		3.5315	0.2831
	Rs. per cu ft	Rs. per cu m		35.315	0.0283
	Rs. per sq ft	Rs. per sq m		10.764	0.0929
	Rs, per % sq ft	Rs. per % sq m		10.764	0.0929
	Rs. per % sq ft	Rs. per sq m		0.10764	9.29
	Rs. per acre	Ks. per hectare		2.471	0.4047
	Rs. per r ft	Rs. per m		3.281	0.3048
	Rs. per 100 r ft	Rs. per 100 m		3.281	0.3048
	Rs. per % r ft	Rs. per m		0.03281	30.48
	Rs. per mile	Rs. per km		0.62137	1.6093
	Rs. per gallon	Rs. per litre		0.220	4.546
	Rs. per cwt	Rs. per kg		0.01968	50.802
	Rs. per cwt	Rs. per quintal		1.968	0.508
	Rs. per lb	Rs. per kg		2.20462	0.4536
	Rs. per md	Rs. per quintal		2.6192	0.3732
	Rs. per ton	Rs, per metric tonne		0.9842	1.016
	Rs. per sr	Rs. per kg		1.07165	0.933
	Rs. per and per mile	Rs. per kg per km		0.0166479	60.067
	Rs. per % cu ft per mile	Rs. per cu m per km		0.220344	4.54

ROLLED STEEL CHANNELS						
Designation	Weight per meter (kg)	Sectional area (cm ²)	Depth of Section (mm)	Width of Flange (mm)	Thickness of Flange (mm)	Thickness of web (mm)
ISJC 100	5.8	7.41	100	45	5.1	3
ISJC 125	7.9	10.07	125	50	6.6	3
ISJC 150	9.9	12.65	150	55	6.9	3.6
ISJC 175	11.2	14.24	175	60	6.9	3.6
ISJC 200	13.9	17.77	200	70	7.1	4.1

ISLC 75	5.7	7.26	75	40	6	3.7
ISLC 100	7.9	10.02	100	50	6.4	4
ISLC 125	10.7	13.67	125	65	6.6	4.4
ISLC 150	14.4	18.36	150	75	7.8	4.8
ISLC 175	17.6	22.4	175	75	9.5	5.1
ISLC 200	20.6	26.42	200	75	10.8	5.5
ISLC 225	24	30.53	225	90	10.2	5.8
ISLC 250	28	35.65	250	100	10.7	6.1
ISLC 300	33.1	42.11	300	100	11.6	6.7
ISLC 350	38.8	49.47	350	100	12.5	7.4
ISLC 400	45.7	58.25	400	100	14	8

ISMC 75	6.8	8.67	75	40	7.3	4.4
ISMC 100	9.2	11.7	100	50	7.5	4.7
ISMC 125	12.7	16.19	125	65	8.1	5
ISMC 250	16.4	20.88	150	75	9	5.4
ISMC 175	19.1	24.38	175	75	10.2	5.7
ISMC 200	22.1	28.21	200	75	11.4	6.1
ISMC 225	25.9	33.01	225	80	12.4	6.4
ISMC 250	30.4	38.67	250	80	14.1	7.1
ISMC 300	38.8	45.64	300	90	13.6	7.6
ISMC 350	42.1	53.66	350	100	13.5	8.1
ISMC 400	49.4	62.93	400	100	15.3	8.6

ROLLED STEEL BEAMS						
Designation	Weight per meter (kg)	Sectional area (cm ²)	Depth of Section (mm)	Width of Flange (mm)	Thickness of Flange (mm)	Thickness of Web (mm)
ISJB 150	7.1	9.01	150	50	4.6	3
ISJB 175	8.1	10.28	175	50	4.8	3.2
ISJB 200	9.9	12.64	200	60	5	3.4
ISJB 225	12.8	16.28	225	80	5	3.7

ISLB 75	6.1	7.7	75	50	5	3.7
ISLB 105	8.0	10.21	100	50	6.4	4
ISLB 125	11.9	15.12	125	75	6.5	4.4
ISLB 150	14.2	18.08	150	80	6.8	4.8
ISLB 175	16.7	21.3	175	90	6.9	5.1
ISLB 200	19.8	25.27	200	100	7.3	5.4
ISLB 225	23.5	29.92	225	100	8.6	5.8
ISLB 250	27.9	35.53	250	125	8.2	6.1
ISLB 275	33	42.02	275	140	8.8	6.4
ISLB 300	37.7	48.08	300	150	9.4	6.7
ISLB 325	43.1	54.9	325	165	9.8	7.3
ISLB 350	49.5	63.01	350	165	11.4	7.4
ISLB 400	56.9	72.43	400	165	12.5	8
ISLB 450	65.3	83.14	450	170	13.4	8.6
ISLB 500	75	95.50	500	180	14.1	9.2
ISLB 550	86.3	109.97	550	190	15	9.9
ISLB 600	99.5	126.69	600	210	15.5	10.5

ISMB 100	11.5	14.60	100	75	7.2	4.0
ISMB 125	13	16.60	125	75	7.6	4.4
ISMB 150	14.9	19.00	150	80	7.6	4.8
ISMB 175	19.3	24.62	175	90	8.6	5.5
ISMB 200	25.4	32.3	200	100	10.8	5.7
ISMB 225	31.2	39.72	225	110	11.8	6.5
ISMB 250	37.3	47.55	250	125	12.5	6.9
ISMB 300	44.2	56.26	300	140	12.4	7.5
ISMB 350	52.4	66.71	350	140	14.2	8.1
ISMB 400	61.6	78.46	400	140	16	8.9
ISMB 450	72.4	92.27	450	150	17.4	9.4
ISMB 500	86.9	110.74	500	180	17.2	10.2
ISMB 550	103.7	132.11	550	190	19.3	11.2
ISMB 600	122.6	156.21	600	210	20.8	12
ISMB 150	17.0	21.67	150	100	7.0	5.4

ROLLED STEEL EQUAL ANGLES

Designation	Size A x B (mm x mm)	Thickness (mm)	Sectional Area (cm ²)	Weight Per Meter (kg)	Moduli of Section (cm ³)
ISA 2020	20 X 20	3.0	1.12	0.9	0.3
		4.0	1.45	1.1	0.4
ISA 2525	25 X 25	3.0	1.41	1.1	0.4
		4.0	1.84	1.4	0.6
		5.0	2.25	1.8	0.7
ISA 3030	30 X 30	3.0	1.73	1.4	0.6
		4.0	2.26	1.8	0.8
		5.0	2.77	2.2	1.0
ISA 3535	35 X 35	3.0	2.03	1.6	0.9
		4.0	2.66	2.1	1.2
		5.0	3.27	2.6	1.4
		6.0	3.86	3.0	1.7
ISA 4040	40 X 40	3.0	2.34	1.8	1.2
		4.0	3.07	2.4	1.6
		5.0	3.78	3.0	1.9
		6.0	4.47	3.5	2.3
ISA 4545	45 X 45	3.0	2.64	2.1	1.5
		4.0	3.47	2.7	2.0
		5.0	4.28	3.4	2.5
		6.0	5.07	4.0	2.9
ISA 5050	50 X 50	3.0	2.95	2.3	1.9
		4.0	3.88	3.0	2.5
		5.0	4.79	3.8	3.1
		6.0	5.68	4.5	3.6
ISA 5555	55 X 55	5.0	5.27	4.1	3.7
		6.0	6.26	4.9	4.4
		8.0	8.18	6.4	5.7
		10	10.02	7.9	7.0
ISA 6060	60 X 60	5.0	5.75	4.5	4.4
		6.0	6.84	5.4	5.2
		8.0	8.96	7.0	6.8
		10	11	8.6	8.4
ISA 6565	65 X 65	5.0	6.25	4.9	5.2
		6.0	7.44	5.8	6.2
		8.0	9.76	7.7	8.1
		10	12	9.4	9.9
ISA 7070	70 X 70	5.0	6.77	5.3	6.1
		8.0	8.06	6.3	7.3
		8.0	10.58	8.3	9.5
		10	13.02	10.2	11.7

Designation	Size A x B (mm x mm)	Thickness (mm)	Sectional Area (cm ²)	Weight Per Meter (kg)	Moduli of Section (cm ³)
ISA 7575	75 X 75	5.0	7.27	5.7	7.1
		6.0	8.66	6.8	8.4
		8.0	11.38	8.9	11.0
		10	14.02	11	13.5
		6.0	9.29	7.3	9.6
		8.0	12.21	9.6	12.6
ISA 8080	80 X 80	10	15.05	11.8	15.5
		12	17.81	14	18.3
		6.0	10.47	8.2	12.2
ISA 9090	90 X 90	8.0	13.79	10.8	16.0
		10	17.03	13.4	19.3
		12	20.19	15.8	23.3
ISA 100100	100 X 100	6.0	11.67	9.2	15.2
		8.0	15.39	12.1	20.0
		10	19.03	14.9	24.7
		12	22.59	17.7	29.2
ISA 110110	110 X 110	8.0	17.02	13.4	24.4
		10	21.06	16.5	30.1
		12	25.02	19.6	35.7
		15	30.81	24.2	43.7
ISA 130130	130 X 130	8.0	20.22	15.9	34.5
		10	25.06	19.9	42.7
		12	29.82	23.4	50.7
		15	36.81	28.9	62.3
ISA 150150	150 X 150	10	29.03	22.8	56.9
		12	34.59	27.2	67.7
		15	42.78	33.6	83.5
		18	50.79	39.9	98.7
ISA 200200	200 X 200	12	46.61	36.6	122.2
		15	57.8	45.4	151.4
		18	68.81	54	179.9
		25	93.8	73.6	243.3

Sizes and properties of steel tubes for structural purposes					
Nominal Bore	Outside diameter	Class	Thickness	Weight	Area of cross section
mm	mm		mm	Kg/m	Cm2
15	21.3	L	2	0.962	1.21
		M	2.65	1.22	1.55
		H	3.25	1.45	1.84
20	26.9	L	2.35	1.42	1.81
		M	2.65	1.58	2.02
		H	3.25	1.9	2.41
25	33.7	L	2.65	2.04	2.58
		M	3.25	2.46	3.11
		H	4.05	2.99	3.77
32	42.4	L	2.65	2.61	3.31
		M	3.25	3.15	4
		H	4.05	3.86	4.88
40	48.3	L	2.9	3.27	4.14
		M	3.25	3.61	4.6
		H	4.05	4.43	5.63
50	60.3	L1	2.9	4.14	5.23
		L2	3.25	4.57	5.82
		M	3.65	5.1	6.5
		H	4.5	6.17	7.89
65	76.1	L	3.25	5.84	7.44
		M	3.65	6.53	8.31
		H	4.5	7.92	10.1
80	88.9	L	3.25	6.86	8.74
		M	4.05	8.48	10.8
		H	4.85	10.1	12.8
90	101.6	L	3.65	8.82	11.2
		M	4.05	9.75	12.4
		H	4.85	11.6	14.7
100	114.3	L	3.65	9.97	12.7
		M	4.5	12.1	15.5
		H	5.4	14.5	18.5
110	127	L	4.5	13.6	17.3
		M	4.85	14.6	18.6
		H	5.4	16.2	20.6

GENERAL CONVERSION TABLE			
Multiply by	To Convert	To	
2.54	Inches	Centimeters	0.3937
30.48	Feet	Centimeters	0.3228
9.14	Yards	Metres	1.094
1609.3	Mile	Metres	0.000621
1853.27	Nautical Miles	Metres	0.000539
6.45	Square Inches	Sq.cum	0.155
0.093	Square Feets	Sq.Metres	10.764
0.836	Square Yards	Sq.Metres	1.196
16.39	Cubic Inches	Cub.cms	0.061
28.3	Cubic Feet	Litres	0.0353
0.065	Grains	Grammes	15.38
50.8	Cwt	Kilogrammes	0.0968
0,16.0	Tons	Kilogrammes	0.000984

ROLLED STEEL UNEQUAL ANGLES

Designation		Size A*B		s	area	per metre	Moduli of section	
		mm	mm				t	a
				mm	cm ²	kg	cm ³	cm ³
ISA	3020	30*20	3	1.41	1.1	0.6	0.3	
			4	1.84	1.4	0.8	0.4	
			5	2.25	1.8	1	0.4	
ISA	4025	40*25	3	1.88	1.5	1.1	0.5	
			4	2.46	1.9	1.4	0.6	
			5	3.02	2.4	1.8	0.7	
			6	3.56	2.8	2.1	0.9	
ISA	4530	45*30	3	2.58	1.7	1.4	0.7	
			4	2.68	2.2	1.9	0.9	
			5	3.52	2.8	2.3	1.1	
			6	4.16	3.3	2.7	1.3	
ISA	5030	50*30	3	2.34	1.8	1.7	0.7	
			4	3.07	2.4	2.3	0.9	
			5	3.78	3	2.8	1.1	
			6	4.47	3.5	3.4	1.3	
ISA	6040	600*40	5	4.76	3.7	4.2	2	
			6	5.65	4.4	5	2.3	
			8	7.37	5.8	6.5	3	
ISA	6545	65*45	5	5.26	4.1	5	2.5	
			6	6.25	4.9	5.9	3	
			8	8.17	6.4	7.7	3.9	
ISA	7045	70*45	5	5.52	4.3	5.7	2.5	
			6	6.56	5.2	6.8	3	
			8	8.58	6.7	8.9	3.9	
			10	10.52	8.3	10.9	4.8	
ISA	7550	75*50	5	6.02	4.7	6.7	3.2	
			6	7.16	5.6	8	3.8	
			8	9.38	7.4	10.4	4.9	
			10	10.52	9	12.7	6	
ISA	8050	80*50	5	6.27	4.9	7.5	3.2	
			6	7.49	5.9	9	3.8	
			8	9.78	7.7	11.7	4.9	
			10	12.2	9.4	14.4	6	

Designation		Size A*B		s	area	per metre	Moduli of section	
		mm	mm				t	a
				mm	cm ²	kg	cm ³	cm ³
ISA	9060	90*60	6	8.65	6.8	11.5	5.5	
			8	11.37	8.9	15.1	7.2	
			10	14.01	11	18.6	8.8	
			12	16.57	13	22	1.03	
ISA	10065	100*65	6	9.55	7.5	14.2	6.4	
			8	12.57	9.9	18.7	8.5	
			10	15.51	12.2	23.1	10.4	
ISA	10075	100*75	6	10.14	8	14.4	8.5	
			8	13.36	10.5	19.1	11.2	
			10	16.5	13	23.6	13.8	
			12	19.56	15.4	27.9	16.3	
ISA	12575	125*75	6	11.66	9.2	22.2	8.7	
			8	15.38	12.1	29.4	11.5	
			10	19.02	14.9	36.3	14.2	
ISA	12595	125*95	6	12.86	10.1	23.1	14	
			8	16.98	13.3	30.6	18.5	
			10	21.02	16.5	37.8	22.9	
			12	24.98	19.6	44.8	27.1	
ISA	15075	150*75	8	17.42	13.7	41.7	11.8	
			10	21.56	16.9	51.6	14.5	
			12	25.62	20.1	61.2	17.1	
ISA	150115	150*115	8	20.58	16.2	44.2	27.2	
			10	25.52	20	54.9	33.8	
			12	30.88	23.5	65.3	40.2	
			15	37.52	29.5	80.4	49.2	
ISA	200100	200*100	10	29.03	22.8	92.8	26.2	
			12	34.59	27.2	110.6	31.11	
			15	42.78	33.6	136.5	38.3	
ISA	200150	200*150	10	34	16.7	98.3	58.7	
			12	40.56	31.8	117.4	69.39	
			15	50.25	39.4	145.4	86	
			18	59.76	46.9	172.5	10.8	

ALUMINIUM SECTION PROFILES

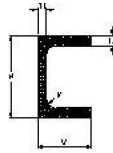
EQUAL ANGLE SECTION

Height (mm)	Width (mm)	Thickness (mm)	Radius "R" (mm)	Length (M)	Mass per length (Kg)
20	20	1.6	-	6	0.99
20	20	1.6	-	6.5	1.073
20	20	3	-	6	1.8
25	25	1.6	-	6.5	1.352
25	25	3	-	5.5	2.096
25	25	3	-	6	2.286
25	25	3	-	6.5	2.47
25.4	25.4	3.18	-	6	2.52
32	32	3	-	6	2.964
32	32	3	-	6.35	3.224
35	35	2	-	6	2.202
38.1	38.1	4.75	-	6	5.622
40	40	1.5	-	6.5	2.074
40	40	1.6	-	6.5	2.197
40	40	3	-	6	3.744
40	40	3	-	6.5	4.05
40	40	4	-	5.85	4.75
40	40	4	-	6.5	5.33
40	40	6	-	6	7.194
40	40	6	-	6.5	7.787
40	40	6	4	6	7.248
50	50	1.5	-	6.5	2.6
50	50	1.6	-	6.5	2.763
50	50	3	-	6	4.716
50	50	3	-	6.5	5.109
50	50	4	2.5	5.85	6.084
50	50	4	-	6.5	6.906
50	50	6	4	5.85	8.91
50	50	6	-	6	9.138
50	50	6	-	6.5	9.9
50	50	6	-	6.5	9.94
63.5	63.5	6.35	6.86	5.5	11.556
76	76	9.5	-	6	22.242
76.2	76.2	6.35	7.62	6	15.27
76.2	76.2	9.53	7.62	6	22.242
80	80	6	-	4	10.008
80	80	6	-	6	15.012
101.6	101.6	9.53	9.14	5.5	27.775

UNEQUAL ANGLE SECTION

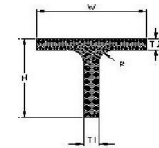
Height (mm)	Width (mm)	Thickness (mm)	Radius "R" (mm)	Length (M)	Mass per length (Kg)
20	12	1.5	-	6.5	0.806
25	12	1.5	-	6.5	0.93
25	12	1.6	-	6.5	0.982
25	20	1.5	-	6.5	1.151
25	20	1.6	-	6.5	1.209
30	20	2	-	6	1.56
32	20	1.5	-	6.5	1.333
32	20	1.6	-	6	1.296
32	20	1.6	-	6.5	1.417
40	25	3	-	6	3.012
40	25	3	-	6.5	3.263
50	25	1.5	-	6.5	1.944
50	25	3	-	6	3.498
50	25	3	-	6.35	3.803
76	50	6	-	6	11.863
76	55	5	-	6.5	10.972
76.2	50.8	6.35	6.86	6	12.624
100	50	6	4	6	14.088
100	50	6	-	6.5	15.262
125	80	8	-	6	25.662

ALUMINIUM SECTION PROFILES



CHANNEL SECTION

Size		Thickness		Radius "R" mm	Length M	Mass per length (Kg)
Base "H" mm	Leg "W" mm	Base "T1" mm	Leg "T2" mm			
10	10	1.6	1.6	-	4.8	0.557
16	16	1.6	1.6	-	6.5	1.255
20	16	1.6	1.6	-	6	1.266
25	25	1.6	1.6	-	6.5	2.022
25	25	3	3	-	6	3.354
25	40	3	3	-	6	4.812
32	25	3	3	-	6	3.696
40	20	3	3	-	6.5	3.907
40	25	3	3	-	6	4.08
40	25	3	3	-	6.5	4.433
50	25	3	3	-	6	4.566
50	25	3	3	-	6.5	4.957
60	32	3	3	-	6.5	6.234
76	38	4	4	-	4	6.196
76	38	4	4	-	7.4	11.463
76.2	38.1	6.35	7.92	7.62	5.5	15.07
80	25	3	3	-	6	6.024
80	25	3	3	-	6	6.024
80	40	4	4	-	6.5	10.712
80	40	4	4	-	6.5	9.894
80	40	6	6	-	6	16.893
100	25	3	3	-	6	6.996
100	40	3	3	-	6	8.454
100	50	5	5	-	4.95	12.845
100	50	5	5	-	7.5	19.463
101.6	50.8	6.3	7.9	9.14	6	22.5
101.6	50.8	6.35	7.9	-	7.5	28.125
127	63.5	6.35	9.55	-	5.85	30.812
127	63.5	6.35	9.55	10.65	6	31.602
148	99.5	5	5	7	4.8	21.235
152.4	63.5	6.35	7.92	10.65	6	31.218
152.4	63.5	6.35	7.92	-	8.84	45.995
170	100	5	5	5	6	28.638
200	90	8	10	4	2.45	21.53



ALUMINIUM T- BAR

Height (mm)	Width (mm)	Thickness "T1" (mm)	Thickness "T2" (mm)	Radius "R" (mm)	Length (M)	Mass per length (kg)
25	25	1.6	1.6	-	5.5	1.15
25	25	3	3	-	5.85	2.299
38.1	38.1	3.18	3.18	-	5.5	3.454
40	40	1.6	1.6	-	5.5	1.865
40	40	4	4	4	5.85	4.908
50	35	2	2	3	6	2.748
50	35	3	3	3	6	4.05
50	50	4	4	-	5.85	6.27
50	50	6	6	6.1	5.85	9.184
54	32	4	4	4	6	5.424
60	50	4	6	4	6	8.472
70	50	4	8	4	6	10.614
76.2	76.2	6.35	6.35	-	5.85	15.029
100	45	5	8	4	6	13.398
125	50	4	6	4	5.85	12.414
133	80	6	8	10	6	23.214
139	80	5	8	10	6	21.654
156	50	6	6	4	6	19.53
163	80	5	8	10	6	23.598
180	100	6	10	-	5.85	30.567
208	80	6	8	6	6	30.06