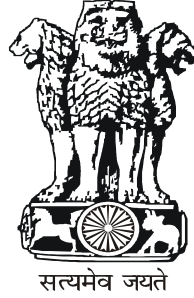
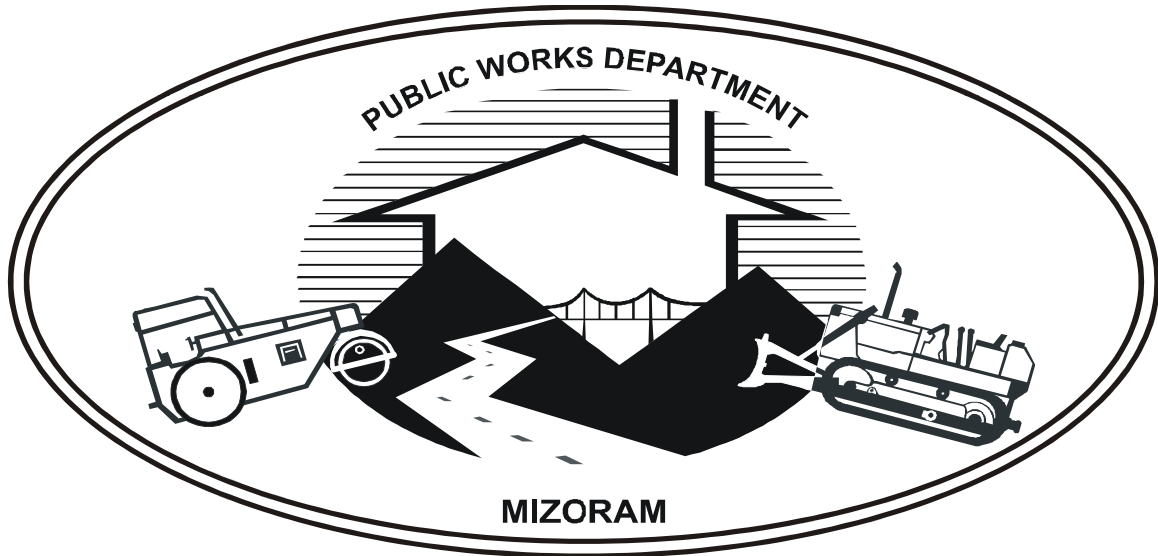


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GOVERNMENT OF MIZORAM PUBLIC WORKS DEPARTMENT



VOLUME I

SCHEDULE OF RATES 2019 (For Mizoram P.W.D)

CONFIDENTIAL
SCHEDULE OF RATES 2019
(For Mizoram P.W.D)

Published by
Engineer-in-Chief
Public Works Department
Mizoram : Aizawl.

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Copies 1000

Layout Design : Work Cell
 Office of the Chief Engineer Buildings
 Public Works Department
 Mizoram : Aizawl

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Printed at
JP Offset Printers
Tuikhuahtlang, Aizawl
Ph : 9436195594/9436153678
Email : jpoffsetprinters@gmail.com

FORWARD

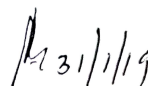
I am happy to learn that Schedule of Rates (SOR) 2019 (for Mizoram P.W.D) for Building works is ready for publication after a long felt need for the same since 2013. Even though the Schedule of Rates 2013 has been updated by way of cost indices, the need to have a realistic and updated rates can never be over emphasized for engineering works due to dynamic nature of the market rate of various items of work which keep on fluctuating unpredictably.

While arriving at the rates of the items incorporated on this SOR 2019, standard analysis of rates prescribed by Central Public Works Department (CPWD) is incorporated. Sincere attempt was given for the rates in the SOR to be workable and any mistake, inaccuracy or inconsistency that might have been committed is unintentional and suggestion for improvement would be most welcomed by the Department.

It goes without saying that preparation of SOR requires tremendous co-ordinated effort of both the field and the office staff for which the remarkable dedication of Chief Engineer (Building), Public Works Department, Government of Mizoram and his team involving in the preparation of this SOR 2019 is exceedingly appreciated.

This Schedule of Rates 2019 (For Mizoram P.W.D) is hereby approved and will be effective from 1st February 2019.


Dated Aizawl the 31st January, 2019.


(R. VANLALTLUANGA)
Engineer-in-Chief,
Public Works Department
Mizoram : Aizawl

PREFACE

1. Analysis of rates have been based on CPWD, Analysis of rates, 2016. in cases where CPWD analysis are not applicable, MPWD analysis have been used.
2. The Engineer-in-Chief, PWD, Government of Mizoram has approved this Schedule of Rates 2019 w.e.f 1st february 2019 and it shall replace the Schedule of Rates 2013 with effect from issue of Schedule of Rates 2019
3. The Schedule of Rates 2019 is applicable throughout Mizoram with cost indices indicated for Lawngtlai district, Lunglei district, Mamit district, Siaha district, Serchhip district, Champhai district and Kolasib District.
4. The rates of Cement, Steel, Bricks are based on market rate at Aizawl.
5. Source of fine sand is Bagha and Coarse sand in Sairang, transportation cost of cubic metre per kilometer to be added.
6. Basic rate is inclusive of GST, loading & unloading and transportation of materials upto work site within aizawl.
7. The following species of timber are to be used for the classes of wood works:
First Class: Thingri, Thlado (Jarul), Tufar (Nahar), Char (Hollock), Herhse (Sal), Thlanvawng (Gamari), Teak
Second Class: Ngiau (Champ), Khiang (Schima Wallichii), Tei (Toona Ciliata/Toon), Bui (Phoebespp), Lawgthing (Dipterocarpa Turprinatus/ Gurjan), Bulfek, Tatkawng (Arbocarpas Chaplash), Sahatah (Ammora Wallichii)

No other kind of timber which are inferior to the above are to be used without the permission of the Chief Engineer, PWD, Buildings.


(LALMUANKIMA HENRY)
Chief Engineer, PWD, Buildings.
Mizoram : Aizawl

PUBLIC WORKS DEPARTMENT : MIZORAM
SCHEDULE OF RATES 2018
FOR MIZORAM

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PART 'A'
CARRIAGE OF MATERIAL

HIRE CHARGES OF PLANTS AND MACHINERIES

SI No	Name of Plants and Machineries	Unit	Amount
1	Pump set for pumping water @ 3636.8 litres/hour	<i>per hour</i>	Rs.201.00
2	Hand Grinder for mirror polish	<i>per hour</i>	Rs.110.00
3	Floor Grinder (granite)	<i>per hour</i>	Rs.83.00
4	GUSMER (for spraying of chemical)	<i>per hour</i>	Rs.122.00
5	Concrete Mixer 7-10 tph	<i>per hour</i>	Rs.313.00
6	Needle Vibrator (40mm)	<i>per hour</i>	Rs.207.00
7	F.E. Loader (1.00 cum capacity)	<i>per hour</i>	Rs.1,892.00
8	Concrete Batch Mixer PLANT 7/10 Capacity	<i>per hour</i>	Rs.380.00
9	Concrete Batch Mixer PLANT 5/7 Capacity	<i>per hour</i>	Rs.260.00
10	Concrete Vibratory Needle Size 45mm - 60mm Diesel Operated	<i>per hour</i>	Rs.150.00
11	Concrete Vibratory Needle Size 45mm - 60mm Petrol/Kerosine Operated	<i>per hour</i>	Rs.150.00
12	Bull Dozer D-50 : A-15	<i>per hour</i>	Rs.3,911.00
13	Drilling Equipment (Air compressor with accessories)	<i>per hour</i>	Rs.770.00
14	Drilling Machine Bosch make Capacity 1"	<i>per hour</i>	Rs.20.00
15	Drilling Machine Bosch make Capacity 3/4"	<i>per hour</i>	Rs.20.00
16	Truck 5.5 Cum. Per 10 Tonnes	<i>per hour</i>	Rs.1,022.00
17	Tipper Truck	<i>per hour</i>	Rs.964.00
18	Tata Tipper 6 Wheel Scoop Type Capacity 5 Cu. M	<i>per hour</i>	Rs.1,100.00
19	Marble Cutting Machine Wheel size 110mm Wet/Dry Type	<i>per hour</i>	Rs.10.00
20	Marble Cutting Machine without Motor	<i>per hour</i>	Rs.15.00
21	Rock Breaking Machine Pneumatic Type Capacity 32mm	<i>per hour</i>	Rs.16.00
22	Lift Capacity Semi dual Control Height upto 6 Floors 10 persons	<i>per hour</i>	Rs.410.00
23	Lift Capacity Semi dual Control Height upto 6 Floors 6 persons	<i>per hour</i>	Rs.270.00
24	Diamond Concrete Cutting Machine Dia 32mm - 212mm Wet/Dry Drilling in Concrete Drilling Stroke 500mm .	<i>per hour</i>	Rs.115.00
25	Builder's Hoist Electrically Operated, Capacity upto 1 Tonne with 24m Lifting Capacity with 440 Volt Motor .	<i>per hour</i>	Rs.100.00
26	Production cost of concrete by batch mix plant	<i>cum</i>	Rs.500.00

BY MECHANICAL TRANSPORT
A : CALCULATION OF TRIP RATE OF 1210/42 SE MODEL TATA TRUCK
(Including loading, unloading and stacking etc.)

SI No	Lead in Kms (L)	Average Speed Km/hr (S)	No of trips per day (N)	Kms done per day (K)	Total Cost per day of vehicle & labour	Cost per Trip (6 / 4)	Increase in Cost per Km over previous 1 Km	Average Cost per additional 1.0Km after 1st 5Kms
1	2	3	4	5	6	7	8	9
1	1	16.00	7.11	20.22	10276.00	1445.29		
2	2	17.00	6.48	31.92	10276.00	1585.80		
3	3	17.50	5.96	41.76	10276.00	1724.16		
4	4	18.00	5.54	50.32	10276.00	1854.87		
5	5	18.50	5.19	57.90	10276.00	1979.96		
6	6	19.00	4.90	64.80	10276.00	2097.14	117.18	
7	7	19.50	4.66	71.24	10276.00	2205.15	108.01	
8	8	20.00	4.44	77.04	10276.00	2314.41	109.26	Beyond 5km upto 20km
9	9	20.50	4.26	82.68	10276.00	2412.21	97.80	85.48
10	10	21.00	4.10	88.00	10276.00	2506.34	94.13	
11	11	21.50	3.95	92.90	10276.00	2601.52	95.18	
12	12	22.00	3.83	97.92	10276.00	2683.03	81.51	
13	13	22.50	3.71	102.46	10276.00	2769.81	86.78	
14	14	23.00	3.61	107.08	10276.00	2846.54	76.73	
15	15	23.50	3.51	111.30	10276.00	2927.64	81.10	
16	16	24.00	3.43	115.76	10276.00	2995.92	68.28	
17	17	24.50	3.35	119.90	10276.00	3067.46	71.54	
18	18	25.00	3.28	124.08	10276.00	3132.93	65.47	
19	19	25.50	3.21	127.98	10276.00	3201.25	68.32	
20	20	26.00	3.15	132.00	10276.00	3262.22	60.97	

NOTES :-

- 1 No. of trips per day of 8 hours $N = 8 / (2L / S + 1)$,
where L = Lead in Kms, S = Speed in Km per hour,
1 (one) hour is allowed for loading and unloading time.
- 2 Kms done per day of 8 hours $K = 2NL + 6$,
where N = No. of trips per day, L = Lead in Kms, allowance of
6 (six) Kms is made for movement of truck from parking place
to duty and back.
- 3 Hire rate of truck includes all POL, etc. and it is as
per Analysis of Rate 2006 = Rs.8,176.00
- 4 Unskilled labour (Mazdoor) = 6 nos is included for loading, Rs. 350.00
unloading and stacking etc. and wages per day per head is
- 5 Total Cost per day of vehicle & labour
= 8176.00 + 350.00 × 6 = Rs.10,276.00

**CARRIAGES BY MECHANICAL TRANSPORT
B : CALCULATION OF COST PER UNIT QUANTITY
(Including loading, unloading and stacking etc.)**

Cost per trip from trip rate calculation					1445.29	1585.80	1724.16	1854.87	1979.96	85.48
Sl No	Materials	Gross Capacity per Trip	Net Quantity after deduction of voids	Unit of Rates	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF					
					1 km	2 km	3 km	4 km	5 km	Beyond 5 km per unit per km
1	2	3	4	5	6	7	8	9	10	11
1	a) Lime, moorum, building rubbish.	6.00	6.00	cum	264.97	290.73	316.10	340.06	362.99	15.67
	b) Earth.	6.00	4.80	cum	331.21	363.41	395.12	425.07	453.74	19.59
	c) Manure or sludge.	6.00	5.52	cum	288.01	316.01	343.58	369.63	394.56	17.03
	d) Excavated rock.	6.00	3.00	cum	529.94	581.46	632.19	680.12	725.99	31.34
	e) Sand, aggregate below 40mm nominal size.	5.00	5.00	cum	317.96	348.88	379.32	408.07	435.59	18.81
	f) Aggregate 40mm nominal size and above.	5.00	4.62	cum	344.12	377.57	410.51	441.64	471.42	20.35
	g) Stone boulder.	5.00	4.25	cum	374.08	410.44	446.25	480.08	512.46	22.12
	h) Concrete block.	3.00	3.00	cum	529.94	581.46	632.19	680.12	725.99	31.34
	i) Brick.	2000	2000	1000nos	794.91	872.19	948.29	1020.18	1088.98	47.01
	j) Brick tile, roofing tile.	3200	3200	1000nos	496.82	545.12	592.68	637.61	680.61	29.38
	k) Steam coal.	5.50	5.50	ton	289.06	317.16	344.83	370.97	395.99	17.10
	l) Empty cement bag.	2000	2000	1000nos	794.91	872.19	948.29	1020.18	1088.98	47.01
2	a) Steel.	7.00	7.00	ton	227.12	249.20	270.94	291.48	311.14	13.43
	b) Timber.	5.00	5.00	cum	317.96	348.88	379.32	408.07	435.59	18.81
	c) Tar, bitumen, roofing felt, flooring felt,	4.50	4.50	ton	353.29	387.64	421.46	453.41	483.99	20.90
	d) Cement, stone, block, GI, CC, CI & AC pipes below 100mm dia and other heavy	7.00	7.00	ton	227.12	249.20	270.94	291.48	311.14	13.43
	e) Glass block (hollow) 200x200x100mm.	1000	1000	100nos	158.98	174.44	189.66	204.04	217.80	9.40
3	a) RCC pipe, steel cylinder, CI pipe, RC pipe, unreinforced cement pipe, prestressed concrete pipes.									
	i) 100mm dia.	80x3.66m	292.80	Rm	5.43	5.96	6.48	6.97	7.44	0.32
	ii) 125mm dia.	60x3.66m	219.60	Rm	7.24	7.94	8.64	9.29	9.92	0.43
	iii) 150mm dia.	50x3.66m	183.00	Rm	8.69	9.53	10.36	11.15	11.90	0.51
	iv) 200mm dia.	30x3.66m	109.80	Rm	14.48	15.89	17.27	18.58	19.84	0.86
	v) 250mm dia.	22x3.66m	80.52	Rm	19.74	21.66	23.55	25.34	27.05	1.17
	vi) 300mm dia.	17x3.66m	62.22	Rm	25.55	28.04	30.48	32.79	35.00	1.51
	vii) 350mm dia.	12x3.66m	43.92	Rm	36.20	39.72	43.18	46.46	49.59	2.14
	viii) 400mm dia.	9x3.66m	32.94	Rm	48.26	52.96	57.58	61.94	66.12	2.85

Cost per trip from trip rate calculation					1445.29	1585.80	1724.16	1854.87	1979.96	85.48
Sl No	Materials	Gross Capacity per Trip	Net Quantity after deduction of voids	Unit of Rates	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF					
					1 km	2 km	3 km	4 km	5 km	Beyond 5 km per unit per km
1	2	3	4	5	6	7	8	9	10	11
	ix) 450mm and 500mm dia.	7x3.66m	25.62	Rm	62.05	68.09	74.03	79.64	85.01	3.67
	x) 600, 700, 750, and 800mm dia.	5x3.66m	18.30	Rm	86.88	95.32	103.64	111.49	119.01	5.14
	xi) 900mm dia.	3x3.66m	10.98	Rm	144.79	158.87	172.73	185.82	198.36	8.56
	xii) 1000, 1100, and 1200mm dia.	2x3.66m	7.32	Rm	217.19	238.30	259.10	278.74	297.53	12.85
	b) RCC Hume pipes									
	i) NP3 900mm dia.	4x2.5m	10.00	Rm	158.98	174.44	189.66	204.04	217.80	9.40
	ii) NP3 1200mm dia.	3x2.5m	10.00	Rm	158.98	174.44	189.66	204.04	217.80	9.40
	c) SW pipes.									
	i) 100mm dia.	800x0.6m	480.00	Rm	3.31	3.63	3.95	4.25	4.54	0.20
	ii) 150mm dia.	400x0.6m	240.00	Rm	6.62	7.27	7.90	8.50	9.07	0.39
	iii) 200mm dia.	225x0.6m	135.00	Rm	11.78	12.92	14.05	15.11	16.13	0.70
	iv) 230mm dia.	175x0.6m	105.00	Rm	15.14	16.61	18.06	19.43	20.74	0.90
	v) 250mm dia.	140x0.6m	84.00	Rm	18.93	20.77	22.58	24.29	25.93	1.12
	vi) 300mm dia.	110x0.6m	66.00	Rm	24.09	26.43	28.74	30.91	33.00	1.42
	vii) 350mm dia.	80x0.6m	48.00	Rm	33.12	36.34	39.51	42.51	45.37	1.96
	viii) 400mm dia.	55x0.6m	33.00	Rm	48.18	52.86	57.47	61.83	66.00	2.85
	ix) 450mm dia	45x0.6m	27.00	Rm	58.88	64.61	70.24	75.57	80.67	3.48
	x) 500mm dia.	40x0.6m	24.00	Rm	66.24	72.68	79.02	85.01	90.75	3.92
	x) 600mm dia.	30x0.6m	18.00	Rm	88.32	96.91	105.37	113.35	121.00	5.22

NOTES :

1 The carriage rates are of loose quantity of materials, i.e. before deduction of voids if any.

BY MANUAL LABOUR
(Including loading, unloading and stacking etc.)

Sl No	Materials	Gross Capacity per day	Net Quantity after deduction of voids	Unit of Rates	Cost per day for first 50 m	Extra Cost for every additional lead of 50m or part t/o	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Group A :

4	a) Lime, moorum, building rubbish.	35.00	35.00	cum	2684.50	584.50	84.37	187.11	289.85	392.59	495.33	598.07	700.81	803.55	906.29	1009.03
	b) Earth.	35.00	28.00	cum	2684.50	584.50	105.46	233.89	362.31	490.74	619.16	747.59	876.01	1004.44	1132.86	1261.29
	c) Manure or sludge.	35.00	32.20	cum	2684.50	584.50	91.71	203.38	315.05	426.73	538.40	650.08	761.75	873.42	985.10	1096.77
	d) Excavated rock.	35.00	17.50	cum	2684.50	584.50	168.74	374.22	579.70	785.18	990.66	1196.14	1401.62	1607.10	1812.58	2018.06
	e) Sand, aggregate below 40mm nominal size.	28.00	28.00	cum	2684.50	584.50	105.46	233.89	362.31	490.74	619.16	747.59	876.01	1004.44	1132.86	1261.29
	f) Aggregate 40mm nominal size and above.	28.00	25.90	cum	2684.50	584.50	114.01	252.85	391.69	530.53	669.36	808.20	947.04	1085.88	1224.72	1363.55
	g) Stone boulder.	28.00	23.80	cum	2684.50	584.50	124.07	275.16	426.25	577.34	728.43	879.51	1030.60	1181.69	1332.78	1483.87
	h) Concrete block.	15.00	15.00	cum	2684.50	584.50	196.86	436.59	676.32	916.04	1155.77	1395.50	1635.22	1874.95	2114.68	2354.40
	i) Brick.	15000	15000	1000nos	2684.50	584.50	196.86	436.59	676.32	916.04	1155.77	1395.50	1635.22	1874.95	2114.68	2354.40
	j) Brick tile, roofing tile.	24000	24000	1000nos	2684.50	584.50	123.04	272.87	422.70	572.53	722.36	872.19	1022.01	1171.84	1321.67	1471.50
	k) Steam coal.	30.00	30.00	ton	2684.50	584.50	98.43	218.30	338.16	458.02	577.89	697.75	817.61	937.48	1057.34	1177.20

Group B :

5	a) Steel.	27.00	27.00	ton	3220.00	472.50	131.19	281.62	432.06	582.49	732.93	883.36	1033.80	1184.23	1334.67	1485.10
	b) Timber.	42.00	42.00	cum	3220.00	472.50	84.33	181.04	277.75	374.46	471.17	567.88	664.58	761.29	858.00	954.71
	c) Tar, bitumen, roofing felt, flooring felt, asphalt, etc.	46.00	46.00	ton	3220.00	472.50	77.00	165.30	253.60	341.90	430.20	518.49	606.79	695.09	783.39	871.69
	d) Cement.	57.99	57.99	ton	3220.00	472.50	61.08	131.12	201.16	271.21	341.25	411.29	481.33	551.38	621.42	691.46
	e) Stone block, GI, CC, CI pipes below															

Sl No	Materials	Gross Capacity per day	Net Quantity after deduction of voids	Unit of Rates	Cost per day for first 50 m	Extra Cost for every additional lead of 50m or part t/o	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	100mm dia. and other heavy materials.	40.00	40.00	ton	3220.00	472.50	88.55	190.09	291.64	393.18	494.73	596.27	697.81	799.36	900.90	1002.44
	f) Glass block (hollow) 200x200x100mm.	4000.00	4000.00	100nos	3220.00	472.50	88.55	190.09	291.64	393.18	494.73	596.27	697.81	799.36	900.90	1002.44
6	a) RCC pipe, steel cylinder, CI pipe, RC pipe, unreinforced cement pipe, prestressed concrete pipes.															
	i) 100mm dia.	1702.00	1702.00	Rm	3220.00	472.50	2.08	4.47	6.85	9.24	11.63	14.01	16.40	18.79	21.17	23.56
	ii) 125mm dia.	1391.00	1391.00	Rm	3220.00	472.50	2.55	5.47	8.39	11.31	14.23	17.15	20.07	22.99	25.91	28.83
	iii) 150mm dia.	1208.00	1208.00	Rm	3220.00	472.50	2.93	6.29	9.66	13.02	16.38	19.74	23.11	26.47	29.83	33.19
	iv) 200mm dia.	805.00	805.00	Rm	3220.00	472.50	4.40	9.45	14.49	19.54	24.58	29.63	34.67	39.72	44.77	49.81
	v) 250mm dia.	458.00	458.00	Rm	3220.00	472.50	7.73	16.60	25.47	34.34	43.21	52.08	60.94	69.81	78.68	87.55
	vi) 300mm dia.	360.00	300.00	Rm	3220.00	472.50	11.81	25.35	38.89	52.42	65.96	79.50	93.04	106.58	120.12	133.66
	vii) 350mm dia.	256.00	256.00	Rm	3220.00	472.50	13.84	29.70	45.57	61.43	77.30	93.17	109.03	124.90	140.77	156.63
	viii) 400mm dia.	220.00	220.00	Rm	3220.00	472.50	16.10	34.56	53.03	71.49	89.95	108.41	126.88	145.34	163.80	182.26
	ix) 450mm and 500mm dia.	160.00	160.00	Rm	3220.00	472.50	22.14	47.52	72.91	98.30	123.68	149.07	174.45	199.84	225.23	250.61
	x) 600, 700, 750, and 800mm dia.	150.00	150.00	Rm	3220.00	472.50	23.61	50.69	77.77	104.85	131.93	159.01	186.08	213.16	240.24	267.32
	b) SW pipes.															
	i) 100mm dia.	2298.00	2298.00	Rm	3220.00	472.50	1.54	3.31	5.08	6.84	8.61	10.38	12.15	13.91	15.68	17.45
	ii) 150mm dia.	1398.00	1398.00	Rm	3220.00	472.50	2.53	5.44	8.34	11.25	14.16	17.06	19.97	22.87	25.78	28.68
	iii) 200mm dia.	999.00	999.00	Rm	3220.00	472.50	3.55	7.61	11.68	15.74	19.81	23.87	27.94	32.01	36.07	40.14
	iv) 230mm dia.	780.00	780.00	Rm	3220.00	472.50	4.54	9.75	14.96	20.16	25.37	30.58	35.79	40.99	46.20	51.41
	v) 250mm dia.	600.00	600.00	Rm	3220.00	472.50	5.90	12.67	19.44	26.21	32.98	39.75	46.52	53.29	60.06	66.83
	vi) 300mm dia.	420.00	420.00	Rm	3220.00	472.50	8.43	18.10	27.78	37.45	47.12	56.79	66.46	76.13	85.80	95.47
	vii) 350mm dia.	300.00	300.00	Rm	3220.00	472.50	11.81	25.35	38.89	52.42	65.96	79.50	93.04	106.58	120.12	133.66
	viii) 400mm dia.	240.00	240.00	Rm	3220.00	472.50	14.76	31.68	48.61	65.53	82.45	99.38	116.30	133.23	150.15	167.07
	ix) 450mm dia.	198.00	198.00	Rm	3220.00	472.50	17.89	38.40	58.92	79.43	99.94	120.46	140.97	161.49	182.00	202.51
	x) 500mm dia.	162.00	162.00	Rm	3220.00	472.50	21.86	46.94	72.01	97.08	122.15	147.23	172.30	197.37	222.44	247.52
	xi) 600mm dia.	132.00	132.00	Rm	3220.00	472.50	26.83	57.60	88.38	119.15	149.92	180.69	211.46	242.23	273.00	303.77

Sl No	Materials	Gross Capacity per day	Net Quantity after deduction of voids	Unit of Rates	Cost per day for first 50 m	Extra Cost for every additional lead of 50m or part t/o	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

c) AC pipes.

i) 50mm dia.	10064.00	10064.00	Rm	3220.00	472.50	472.50	0.35	0.76	1.16	1.56	1.97	2.37	2.77	3.18	3.58	3.98
ii) 80mm dia.	3660.00	3660.00	Rm	3220.00	472.50	472.50	0.97	2.08	3.19	4.30	5.41	6.52	7.63	8.74	9.85	10.96
iii) 100mm dia.	2562.00	2562.00	Rm	3220.00	472.50	472.50	1.38	2.97	4.55	6.14	7.72	9.31	10.89	12.48	14.07	15.65
iv) 150mm dia.	1830.00	1830.00	Rm	3220.00	472.50	472.50	1.94	4.16	6.37	8.59	10.81	13.03	15.25	17.47	19.69	21.91

NOTES :

1 The carriage rates are of loose quantity of materials, i.e. before deduction of voids if any.

GROUP 'B'

SCHEDULE OF RATES

1. PREPATORY WORKS, JUNGLE CLEARANCE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs.)
1.01	Clearing grass and removal of rubbish upto a distance of 50 metres outside the periphery of the area cleared. By Manual means.	sqm	6.80 (Rupees six and paise eighty) only.
1.02	Clearing and grubbing road land including uprooting rank vegetation, grass, brush shrubs, saplings and trees of girth upto 300 mm, removal of stumps, disposal of unserviceable material and stacking of serviceable material upto 100 metres from road boundary. (a) By manual means. (i) In area of light jungle. (ii) In area of thorny jungle. (b) By Mechanical means. (for all classes of jungle).	sqm	9.10 (Rupees nine and paise ten) only. 13.60 (Rupees thirteen and paise sixty) only. 3.00 (Rupees three) only.
1.03	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 metres outside the periphery of the area cleared. (a) By manual means. (i) Light jungle. (ii) Medium jungle. (iii) Heavy jungle.	sqm	7.00 (Rupees seven) only. 10.60 (Rupees ten and paise sixty) only. 14.10 (Rupees fourteen and paise ten) only.
1.04	Felling trees of girth (measured at a height of 1m above ground level) including cutting of trunks and branches and removing the roots and stacking of serviceable material and disposal of unserviceable material with all lifts and upto a lead of 100 metres and earth filling in the depression/pit. (a) Girth from 30 cm to 60 cm (b) Girth from 60 cm to 120 cm	No	252.90 (Rupees two hundred fifty two and paise ninety) only. 1062.70

1. PREPATORY WORKS, JUNGLE CLEARANCE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs.)
			(Rupees one thousand sixty two and paise seventy) only.
(c)	Girth from 120 cm to 240 cm	No	4764.90 (Rupees four thousand seven hundred sixty four and paise ninety) only.
(d)	Girth above 240 cm	No	9650.10 (Rupees nine thousand six hundred fifty and paise ten) only.

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
2.01	Surface dressing of ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m .		
	(a) All kinds of soil	sqm	14.40 (Rupees fourteen and paise forty) only.
2.02	Clearing landslips including removal of spoils upto 30m. (For recently deposited earthwork).		
	(a) Ordinary soil	cum	110.10 (Rupees one hundred ten and paise ten) only.
	(b) Rock debris (Blasting not required)	cum	166.70 (Rupees one hundred sixty six and paise seventy) only.
	(c) Rocks (Blasting required)	cum	354.50 (Rupees three hundred fifty four and paise fifty) only.
	(d) Rocks (Chiseling works required)	cum	963.50 (Rupees nine hundred sixty three and paise fifty) only.
	<i>Note : Earthwork for landslips deposited before monsoon which has had full monsoon on it will be considered as a normal earthwork in excavation.</i>		
2.03	Earthwork in excavation exclusive of compensation of earth in -		
	(a) Ordinary soil		
	(i) Kassi work undressed involving an average horizontal throw upto 2 metres and an average vertical lift upto 0.50 metres including breaking of clods.	cum	118.40 (Rupees one hundred eighteen and paise forty) only.
	(ii) Earthwork with combined lead upto 15 metres including breaking of clods.	cum	157.30 (Rupees one hundred fifty seven and paise thirty) only.
	(b) Hard soil (pick work)	cum	238.10 (Rupees two hundred thirty eight and paise ten) only.
	(c) Soft Rock (Blasting works).	cum	506.40

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees five hundred six and paise forty) only.
	(d) Hard Rock (Blasting work).	cum	560.20 (Rupees five hundred sixty and paise twenty) only.
	(e) Chiselling/ wedging out rock where blasting is prohibited.		
	(i) Soft Rock	cum	1376.40 (Rupees one thousand three hundred seventy six and paise forty) only.
	(ii) Hard Rock	cum	2103.80 (Rupees two thousand one hundred three and paise eighty) only.
	(f) Marshy soil including pumping out water, removal of the same and disposal within a lead of 15 metres.	cum	236.00 (Rupees two hundred thirty six) only.
2.04	Extra for additional lead as in through cutting or when excavated earth/ rock etc. cannot be disposed of directly to valley below, by manual means (when lead is more than 15m).		
	(a) Ordinary and Hard Soil.	cum	111.40 (Rupees one hundred eleven and paise forty) only.
	(i) When overall lead is upto 100m.	cum	247.00 (Rupees two hundred forty seven) only.
	(b) Soft and Hard rock.	cum	178.20 (Rupees one hundred seventy eight and paise twenty) only.
	(i) When overall lead is upto 100m.	cum	395.10 (Rupees three hundred ninety five and paise ten) only.
2.05	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 getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m. as directed by Engineer-in- Charge:		
	(a) All kinds of soil	sqm	54.40 (Rupees fifty four and paise forty) only.
2.06	Earthwork in excavation over areas (exceeding 30cm in depth,1.5m		

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.		
	(a) Ordinary and Hard Soil	cum	411.50 (Rupees four hundred eleven and paise fifty) only.
	(b) Soft Rock (<i>blasting work</i>).	cum	674.90 (Rupees six hundred seventy four and paise ninety) only.
	(c) Hard Rock (<i>blasting work</i>).	cum	873.30 (Rupees eight hundred seventy three and paise thirty) only.
	(d) Hard Rock (<i>blasting prohibited</i>).	cum	1356.40 (Rupees one thousand three hundred fifty six and paise forty) only.
2.07	Earthwork in excavation in foundation trenches or drains etc. (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m including getting out excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.		
	(a) Ordinary Soil	cum	419.90 (Rupees four hundred nineteen and paise ninety) only.
	(b) Hard Soil (<i>pick work</i>) (Coefficient for ordinary soil increased 1.5 times)	cum	629.90 (Rupees six hundred twenty nine and paise ninety) only.
	(c) Very Hard Soil (<i>jumper work</i>) (Coefficient for ordinary soil increased 2 times)	cum	839.80 (Rupees eight hundred thirty nine and paise eighty) only.
	(d) Soft Rock (<i>blasting work</i>).	cum	699.20 (Rupees six hundred ninety nine and paise twenty) only.

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(e) Hard Rock (<i>blasting work</i>).	cum	983.80 (Rupees nine hundred eighty three and paise eighty) only.
	(f) Hard Rock (<i>blasting prohibited</i>).	cum	1402.20 (Rupees one thousand four hundred two and paise twenty) only.
2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.		
	(a) Ordinary Soil	cum	311.10 (Rupees three hundred eleven and paise ten) only.
	(b) Hard Soil (<i>pick work</i>)	cum	466.60 (Rupees four hundred sixty six and paise sixty) only.
	(c) Very Hard Soil (<i>jumper work</i>)	cum	725.80 (Rupees seven hundred twenty five and paise eighty) only.
	(d) Soft Rock (<i>blasting work</i>).	cum	742.90 (Rupees seven hundred forty two and paise ninety) only.
	(e) Hard Rock (<i>blasting work</i>).	cum	990.10 (Rupees nine hundred ninety and paise ten) only.
	(f) Chiselling/wedging out rock where blasting is prohibited.		
	(i) Soft Rock.	cum	1896.20 (Rupees one thousand eight hundred ninety six and paise twenty) only.
	(ii) Hard Rock	cum	3338.90 (Rupees three thousand three hundred thirty eight and paise ninety) only.
2.09	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).		

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
(a)	Depth not exceeding 1.5 m.	sqm	133.20 (Rupees one hundred thirty three and paise twenty) only.
(b)	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	151.10 (Rupees one hundred fifty one and paise ten) only.
(c)	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	169.70 (Rupees one hundred sixty nine and paise seventy) only.
2.10	Close timbering over areas including strutting, shoring and packing, cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered) :		
(a)	Depth not exceeding 1.5 m.	sqm	116.30 (Rupees one hundred sixteen and paise thirty) only.
(b)	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	124.70 (Rupees one hundred twenty four and paise seventy) only.
(c)	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	135.80 (Rupees one hundred thirty five and paise eighty) only.
2.11	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	1736.50 (Rupees one thousand seven hundred thirty six and paise fifty) only.
2.12	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered) :		
(a)	Depth not exceeding 1.5 m.	sqm	62.70 (Rupees sixty two and paise seventy) only.
(b)	Depth exceeding 1.5 m but not exceeding 3 m.	sqm	68.30 (Rupees sixty eight and paise thirty) only.
(c)	Depth exceeding 3 m but not exceeding 4.5 m.	sqm	76.60 (Rupees seventy six and paise sixty) only.
2.13	Open timbering over areas including strutting, shoring etc.		

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	complete (Measurements to be taken of the face area timbered) :		
	(a) Depth not exceeding 1.5 m.	sqm	43.50 (Rupees forty three and paise fifty) only.
	(b) Depth exceeding 1.5 m but not exceeding 3 m.	sqm	50.70 (Rupees fifty and paise seventy) only.
	(c) Depth exceeding 3 m but not exceeding 4.5 m.	sqm	61.00 (Rupees sixty one) only.
2.14	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	780.00 (Rupees seven hundred eighty) only.
2.15	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials		
	(a) All kinds of soil	cum	54.00 (Rupees fifty four) only.
	(b) Ordinary or hard rock	cum	97.90 (Rupees ninety seven and paise ninety) only.
2.16	Pumping out water caused by springs, tidal or rover seepage, broken water mains or drains and the like .	kl	137.60 (Rupees one hundred thirty seven and paise sixty) only.
2.17	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	129.50 (Rupees one hundred twenty nine and paise fifty) only.
2.18	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.		

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) All kinds of soil (excluding ordinary & hard rock)	cum	244.30 (Rupees two hundred forty four and paise thirty) only.
	(b) Ordinary Rock	cum	723.60 (Rupees seven hundred twenty three and paise sixty) only.
	(c) Hard Rock (requiring blasting)	cum	1179.90 (Rupees one thousand one hundred seventy nine and paise ninety) only.
2.19	Earthwork in surface excavation and dressing including cutting and filling upto 15 cm depth, disposal of excavated earth upto 50m and lift upto 1.5m.	sqm	53.70 (Rupees fifty three and paise seventy) only.
2.20	Providing and filling stone aggregates of size below 90mm in plinth, etc. in layers not exceeding 10 cms in depth, consolidating each layer by ramming and watering and dressing complete .	cum	2741.00 (Rupees two thousand seven hundred forty one) only.
2.21	Providing and filling approved river sand in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each layer by ramming and watering and dressing complete .	cum	2381.10 (Rupees two thousand three hundred eighty one and paise ten) only.
<u>ANTI TERMITE TREATMENT</u>			
2.22	Diluting and injecting chemical emulsion for post constructional anti termite treatment with Chlorpyriphos/Lindane emulsifiable chemical 20% with 1% concentration.		
	(a) Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres/sq.m of the vertical surface of the substructure to a depth of 300mm including excavation along the wall and rodding etc complete.	rm	113.20 (Rupees one hundred thirteen and paise twenty) only.

2. EARTHWORK

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Along external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc complete	rm	141.00 (Rupees one hundred forty one) only.
	(c) Treatment of soil under existing floor using chemical emulsion @ 1 litre per hole, 300mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.	sqm	585.20 (Rupees five hundred eighty five and paise twenty) only.
	(d) Treatment of existing masonry using chemical emulsion @ 1 litre per hole, 300mm interval including drilling holes at 45° and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.	rm	872.40 (Rupees eight hundred seventy two and paise forty) only.

3. CEMENT MORTAR

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
3.01	(a) Cement mortar 1:1 (1 cement : 1 fine sand)	cum	12783.50 (Rupees twelve thousand seven hundred eighty three and paise fifty) only.
	(b) Cement mortar 1:2 (1 cement :2 fine sand)	cum	10210.60 (Rupees ten thousand two hundred ten and paise sixty) only.
	(c) Cement mortar 1:3 (1 cement : 3 fine sand)	cum	8830.80 (Rupees eight thousand eight hundred thirty and paise eighty) only.
	(d) Cement mortar 1:4 (1 cement : 4 fine sand)	cum	7615.70 (Rupees seven thousand six hundred fifteen and paise seventy) only.
	(e) Cement mortar 1:5 (1 cement : 5 fine sand)	cum	6861.90 (Rupees six thousand eight hundred sixty one and paise ninety) only.
	(f) Cement Mortar 1:6 (1 cement : 6 fine sand)	cum	6271.30 (Rupees six thousand two hundred seventy one and paise thirty) only.
3.02	(a) Cement mortar 1:2 (1 cement : 2 marble dust).	cum	18028.10 (Rupees eighteen thousand twenty eight and paise ten) only.
	(b) Cement mortar 1:5 (1 cement : 5 marble dust)	cum	15739.70 (Rupees fifteen thousand seven hundred thirty nine and paise seventy) only.
3.03	(a) White cement mortar 1:2 (1 white cement :2 marble dust)	cum	38628.80 (Rupees thirty eight thousand six hundred twenty eight and paise eighty) only.
	(b) White cement mortar 1:3 (1 white cement :3 marble dust)	cum	33110.60 (Rupees thirty three thousand one hundred ten and paise sixty) only.
	(c) White cement mortar 1:5 (1 white cement :5 marble dust)	cum	25166.40 (Rupees twenty five thousand one hundred sixty six and paise forty) only.

3. CEMENT MORTAR

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
3.04	(a) Cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement .	cum	9172.20 (Rupees nine thousand one hundred seventy two and paise twenty) only.
	(b) Cement mortar 1:3 (1 cement : 3 coarse sand) including a floating coat of neat cement .	cum	7734.10 (Rupees seven thousand seven hundred thirty four and paise ten) only.
	(c) Cement mortar 1:4 (1 cement :4 coarse sand) including a floating coat of neat cement .	cum	6519.00 (Rupees six thousand five hundred nineteen) only.
	(d) Cement mortar 1:5 (1 cement :5 coarse sand) including a floating coat of neat cement .	cum	5765.20 (Rupees five thousand seven hundred sixty five and paise twenty) only.
	(e) Cement mortar 1:6 (1 cement :6 coarse sand) including a floating coat of neat cement .	cum	5239.20 (Rupees five thousand two hundred thirty nine and paise twenty) only.

MORTAR ADMIXTURES

3.05	Providing and mixing pidicrete CF 121 or equivalent to substantially increase the quality of concrete in cement mortar for concrete repair and lining, floor toppings, floor screeds etc, .		
	(a) Cement mortar 1:2		
	(i) Pedecrete CF 121	cum	466.30 (Rupees four hundred sixty six and paise thirty) only.
	(ii) Pedecrete CF 51	cum	530.00 (Rupees five hundred thirty) only.
	(b) Cement mortar 1:3		
	(i) Pedecrete CF 121	cum	349.70 (Rupees three hundred forty nine and paise seventy) only.
	(ii) Pedecrete CF 51	cum	397.50 (Rupees three hundred ninety seven and paise fifty) only.

3. CEMENT MORTAR

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
(c) Cement mortar 1:4			
(i) Pedecrete CF 121		cum	260.60 (Rupees two hundred sixty and paise sixty) only.
(ii) Pedecrete CF51		cum	296.20 (Rupees two hundred ninety six and paise twenty) only.

4. PLAIN CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
4.01	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:		
(a)	1:1.5:3 (1 cement :1.5 course sand :3 stone aggregate 20mm nominal size)	cum	9108.20 (Rupees nine thousand one hundred eight and paise twenty) only.
4.02	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:		
(a)	1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)	cum	8324.60 (Rupees eight thousand three hundred twenty four and paise sixty) only.
(b)	1:2:4 (1 cement :2 course sand :4 stone aggregate 40mm nominal size)	cum	8223.20 (Rupees eight thousand two hundred twenty three and paise twenty) only.
4.03	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:		
(a)	1:3:6 (1 cement :3 course sand :6 stone aggregate 20mm nominal size)	cum	7350.60 (Rupees seven thousand three hundred fifty and paise sixty) only.
(b)	1:3:6 (1 cement : 3 course sand : 6 stone aggregate 40mm nominal size)	cum	7234.80 (Rupees seven thousand two hundred thirty four and paise eighty) only.
4.04	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:		
(a)	1 : 4 : 8 (1 cement : 4 course sand : 8 stone aggregate 40mm nominal size)	cum	6663.10 (Rupees six thousand six hundred sixty three and paise ten) only.
(b)	1 : 4 : 8 (1 cement : 4 fine sand : 8 stone aggregate 40mm nominal size)	cum	7222.70 (Rupees seven thousand two hundred twenty two and paise seventy) only.

4. PLAIN CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
4.05	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:		
	(a) 1 : 5 : 10 (1 cement : 5 course sand : 10 stone aggregate 40mm nominal size)	cum	6205.70 (Rupees six thousand two hundred five and paise seventy) only.
	(b) 1 : 5 : 10 (1 cement : 5 fine sand : 10 stone aggregate 40mm nominal size)	cum	6765.30 (Rupees six thousand seven hundred sixty five and paise thirty) only.
4.06	Providing and laying cement concrete in retaining wall, return walls, walls (any thickness) including pilasters, piers, columns,abutments, pillars, posts,plain window sills, sunken floors, etc. up to floor five level excluding the cost of centering, shuttering and finishing :		
	(a) 1 : 1.5 : 3 (1 cement :1.5 course sand : 3 stone aggregate 20mm)	cum	11064.10 (Rupees eleven thousand sixty four and paise ten) only.
4.07	Providing and laying cement concrete in retaining wall, return walls, walls (any thickness) including pilasters, piers, columns,abutments, pillars, posts,plain window sills, sunken floors, etc. up to floor five level excluding the cost of centering, shuttering and finishing :		
	(a) 1 : 2 : 4(1 cement :2course sand : 4 stone aggregate 20mm)	cum	10307.70 (Rupees ten thousand three hundred seven and paise seventy) only.
	(b) 1 : 2 : 4(1 cement :2course sand : 4 stone aggregate 40mm)	cum	10206.40 (Rupees ten thousand two hundred six and paise forty) only.
4.08	Providing and laying cement concrete in retaining wall, return walls, walls (any thickness) including pilasters, piers, columns,abutments, pillars, posts,plain window sills, sunken floors, etc. up to floor five level excluding the cost of centering, shuttering and finishing :		
	(a) 1 : 3 : 6(1 cement :3course sand : 6 stone aggregate 20mm)	cum	9419.41 (Rupees nine thousand four hundred nineteen and paise forty one) only.
	(b) 1 : 3 : 6(1 cement :3course sand : 6 stone aggregate 40mm)	cum	9303.60

4. PLAIN CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees nine thousand three hundred three and paise sixty) only.
4.09	Providing and laying cement concrete in retaining wall, return walls, walls (any thickness) including pilasters, piers, columns, abutments, pillars, posts, plain window sills, sunken floors, etc. up to floor five level excluding the cost of centering, shuttering and finishing :		
	(a) 1:5:10 (1 cement : 5 coarse sand : 10 stone aggregate 40mm nominal size)	cum	8281.10 (Rupees eight thousand two hundred eighty one and paise ten) only.
4.10	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 centering, shuttering complete.		
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	10932.50 (Rupees ten thousand nine hundred thirty two and paise fifty) only.
	(b) 1:2:4 (1 cement : 2 coarse sand 4 graded stone aggregate 20mm nominal size).	cum	10085.40 (Rupees ten thousand eighty five and paise forty) only.
4.11	Providing & fixing up to floor five level pre cast cement concrete solid block including hoisting & setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) including the cost of required centering, shuttering complete .		
	(a) 1:2:4 (1 cement : 2 coarse sand 4 graded stone aggregate 20mm nominal size).	cum	13138.20 (Rupees thirteen thousand one hundred thirty eight and paise twenty) only.
4.12	Providing & fixing up to floor five level pre cast cement concrete hollow including hoisting & setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) including the cost of required centering, shuttering complete .		
	(a) 1:2:4 (1 cement : 2 coarse sand 4 graded stone aggregate 20mm nominal size).	cum	13759.40 (Rupees thirteen thousand seven hundred fifty nine and paise forty) only.

4. PLAIN CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
4.13	Providing and laying damp-proof course 25mm thick with cement concrete 1:2:4 (1cement : 2course sand : 4stone aggregate 12.5mm size)	sqm	267.20 (Rupees two hundred sixty seven and paise twenty) only.
4.14	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1cement : 2course sand : 4stone aggregate 12.5mm size)	sqm	392.10 (Rupees three hundred ninety two and paise ten) only.
4.15	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1cement : 2course sand : 4stone aggregate 20mm size)	sqm	487.90 (Rupees four hundred eighty seven and paise ninety) only.
4.16	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per bag of cement	411.10 (Rupees four hundred eleven and paise ten) only.
4.17	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg 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	555.50 (Rupees five hundred fifty five and paise fifty) only.
4.18	Extra for concrete work in superstructure above floor V level for each four floors or part thereof.	cum	609.80 (Rupees six hundred nine and paise eighty) only.
4.19	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	605.20 (Rupees six hundred five and paise twenty) only.

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
5.01	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :		
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone	cum	9405.20 (Rupees nine thousand four hundred five and paise twenty) only.
	(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate	cum	8633.00 (Rupees eight thousand six hundred thirty three) only.
5.02	Reinforced cement concrete work in walls including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.		
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone	cum	10666.70 (Rupees ten thousand six hundred sixty six and paise seventy) only.
	(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate	cum	9918.60 (Rupees nine thousand nine hundred eighteen and paise sixty) only.
5.03	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.		
	(a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	cum	9811.30 (Rupees nine thousand eight hundred eleven and paise thirty) only.
	(b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	9039.10 (Rupees nine thousand thirty nine and paise ten) only.
5.04	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	10958.20

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees ten thousand nine hundred fifty eight and paise twenty) only.
5.05	Reinforced cement concrete work in chimneys, shafts, up to floor five level ,excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size).	cum	10768.20 (Rupees ten thousand seven hundred sixty eight and paise twenty) only.
5.06	Reinforced cement concrete work in well-steining, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	9139.40 (Rupees nine thousand one hundred thirty nine and paise forty) only.
5.07	Reinforced cement concrete work in Vertical and horizontal fins, individually or forming box louvres, facias and eaves boards upto floor five level excluding centering shuttering and reinforcement with 1 :1.5: 3 (1cement :1.5coarse sand :3stone aggregate 20mm).	cum	10330.90 (Rupees ten thousand three hundred thirty and paise ninety) only.
5.08	Extra for providing and mixing water proofing material in plain and reinforced cement concrete work in the proportion recommended by the manufacturers.	per bag of cement	155.60 (Rupees one hundred fifty five and paise sixty) only.
5.09	Extra for plain and reinforced cement concrete works in superstructure above floor five level for every floor or part thereof.	cum	609.80 (Rupees six hundred nine and paise eighty) only.
5.10	Centering and shuttering including strutting, propping etc. and removal of form for all heights :		
	(a) <i>Foundations, footings, bases of columns etc. for mass concrete.</i>	sqm	359.10 (Rupees three hundred fifty nine and paise ten) only.
	(b) Walls including attached pillasters, buttresses, string courses, etc.	sqm	512.00 (Rupees five hundred twelve) only.

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) Columns, pillars, piers, abutments, posts and struts.	sqm	618.40 (Rupees six hundred eighteen and paise forty) only.
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.	sqm	480.10 (Rupees four hundred eighty and paise ten) only.
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.	sqm	673.30 (Rupees six hundred seventy three and paise thirty) only.
	(f) Staircases <i>(except spiral staircase)</i> excluding landings.	sqm	539.30 (Rupees five hundred thirty nine and paise thirty) only.
	(g) Spiral staircases including landings.	sqm	720.10 (Rupees seven hundred twenty and paise ten) only.
	(h) Arches, domes, vaults upto 6m span.	sqm	1414.80 (Rupees one thousand four hundred fourteen and paise eighty) only.
	(i) Chimneys and shafts	sqm	512.00 (Rupees five hundred twelve) only.
	(j) Well steining	sqm	373.10 (Rupees three hundred seventy three and paise ten) only.
	(k) Vertical and horizontal fins individually or forming box, louvres and bends, eaves boards.	sqm	826.40 (Rupees eight hundred twenty six and paise forty) only.
5.11	Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (1cement : 3fine sand)	<i>sqm</i>	222.50 (Rupees two hundred twenty two and paise fifty) only.
5.12	Applying cement slurry on RCC slabs or on cement concrete work using 2.75 kg/sqm for receiving cement concrete floor including roughening, clearing etc. complete.	sqm	52.60 (Rupees fifty two and paise sixty) only.
5.13	Providing and fixing MS fan clamp 12mm dia HYSD bar bent to		

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	shape with hooked end in RCC slabs during laying including painting the exposed portion of loop complete.	no	101.80 (Rupees one hundred one and paise eighty) only.
5.14	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	11135.80 (Rupees eleven thousand one hundred thirty five and paise eighty) only.
5.15	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor five level, including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	15110.70 (Rupees fifteen thousand one hundred ten and paise seventy) only.
5.16	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc, including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but, excluding the cost of reinforcement, with 1:1.5:3 (1 cement :1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	17459.00 (Rupees seventeen thousand four hundred fifty nine) only.
5.17	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	16199.50 (Rupees sixteen thousand one hundred ninety nine and paise fifty) only.
5.18	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.		

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Mild steel and Medium Tensile steel bars.	kg	78.40 (Rupees seventy eight and paise forty) only.
	(b) Thermo-Mechanically Treated bars of grade Fe-500 or more.	kg	101.60 (Rupees one hundred one and paise sixty) only.
5.19	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.	sqm	201.20 (Rupees two hundred one and paise twenty) only.
5.20	Providing and filling in position blown bitumen in expansion joints.	per cm depth per 100m	768.40 (Rupees seven hundred sixty eight and paise forty) only.
5.21	Providing and fixing in position copper plate as per design for expansion joints.	kg	285.20 (Rupees two hundred eighty five and paise twenty) only.
5.22	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 100m	259.70 (Rupees two hundred fifty nine and paise seventy) only.
5.23	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing sand for expansion joints. compound in expansion joints.	per cm depth per 100m	683.70 (Rupees six hundred eighty three and paise seventy) only.
5.24	Providing and fixing sheet covering over eexpansion joints with iron screws as per design.		
	(a) Non-asbestos fibre cement board 6 mm thick as per IS: 14862		

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(i) 150mm wide.	Rm	247.50 (Rupees two hundred forty seven and paise fifty) only.
	(ii) 200mm wide.	Rm	331.70 (Rupees three hundred thirty one and paise seventy) only.
	(b) Aluminium fluted strips 3.15mm thick.		
	(i) 150 mm wide.	Rm	360.60 (Rupees three hundred sixty and paise sixty) only.
	(ii) 200 mm wide.	Rm	472.30 (Rupees four hundred seventy two and paise thirty) only.
5.25	Add for plaster drip course / groove in plastered surface or moulding to RCC projections.	Rm	48.70 (Rupees forty eight and paise seventy) only.
5.26	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	553.90 (Rupees five hundred fifty three and paise ninety) only.
5.27	Extra for laying reinforced cement concrete in or under foul positions.	cum	192.80 (Rupees one hundred ninety two and paise eighty) only.
5.28	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. "(Note:- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately)		

5. REINFORCED CEMENT CONCRETE

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) All works upto plinth level.	cum	10678.70 (Rupees ten thousand six hundred seventy eight and paise seventy) only.
	(b) All work from plinth level upto floor V level.	cum	11443.00 (Rupees eleven thousand four hundred forty three) only.
5.29	Extra for R.C.C. work above floor V level for each four floors or part thereof.	cum	609.80 (Rupees six hundred nine and paise eighty) only.
5.30	Extra for providing richer or leaner mixes respectively at all floor levels .		
	(a) Providing M-25 grade concrete instead of M-20 grade BMC/RMC. (Note:- Cement content considered in M-25 is @ 330 kg/cum)	cum	122.00 (Rupees one hundred twenty two) only.
	(b) Providing M-30 grade concrete instead of M-20 grade BMC/RMC. (Note : Cement content considered in M-30 is @ 340 kg/ cum)	cum	244.00 (Rupees two hundred forty four) only.
	(c) Providing M-35 grade concrete instead of M-20 grade BMC/RMC.(Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	366.00 (Rupees three hundred sixty six) only.

6. BRICK WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
6.01	First class brickwork in foundation and plinth in :		
	(a) in cement mortar 1: 3 (1 cement : 3 coarse sand)	cum	13533.80 (Rupees thirteen thousand five hundred thirty three and paise eighty) only.
	(b) in cement mortar 1: 4 (1 cement : 4 coarse sand)	cum	9164.50 (Rupees nine thousand one hundred sixty four and paise fifty) only.
	(c) in cement mortar 1: 6 (1 cement : 6 coarse sand)	cum	8792.90 (Rupees eight thousand seven hundred ninety two and paise ninety) only.
6.02	First class brickwork in superstructure above plinth level upto floor V level in:		
	(a) in cement mortar 1: 3 (1 cement : 3 coarse sand)	cum	14855.80 (Rupees fourteen thousand eight hundred fifty five and paise eighty) only.
	(b) in cement mortar 1: 4 (1 cement : 4 coarse sand)	cum	9164.50 (Rupees nine thousand one hundred sixty four and paise fifty) only.
	(c) in cement mortar 1: 6 (1 cement : 6 coarse sand)	cum	8792.90 (Rupees eight thousand seven hundred ninety two and paise ninety) only.
6.03	Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay bricks in cement mortar 1:3 (1 cement : 3 coarse sand).	cum	18587.60 (Rupees eighteen thousand five hundred eighty seven and paise sixty) only.
6.04	First class brickwork in gauged arches in cement mortar 1:3 in superstructure including centering and shuttering for span upto 6m including curing, etc. complete.	cum	20943.30 (Rupees twenty thousand nine hundred forty three and paise thirty) only.
6.05	Half brick masonry with first class brick in foundation and plinth in:		
	a) in cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	1581.10

6. BRICK WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand five hundred eighty one and paise ten) only.
	b) in cement mortar 1 : 4 (1 cement : 4coarse sand)	sqm	1541.60 (Rupees one thousand five hundred forty one and paise sixty) only.
6.06	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.		
	a) in cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	1632.30 (Rupees one thousand six hundred thirty two and paise thirty) only.
	b) in cement mortar 1 : 4 (1 cement : 4coarse sand)	sqm	1635.00 (Rupees one thousand six hundred thirty five) only.
6.07	Extra for providing and placing in position 2 nos 6mm dia. MS bars at every third course of half brick masonry.	sqm	75.70 (Rupees seventy five and paise seventy) only.
6.08	Honey-comb half brick masonry with first class brick in foundation upto one storey above and below ground level including curing, etc. complete.		
	a) in cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	1421.10 (Rupees one thousand four hundred twenty one and paise ten) only.
	b) in cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	965.00 (Rupees nine hundred sixty five) only.
6.09	7.5 cm thick brick masonry with first class brick in superstructure above plinth level upto floor two level including curing, etc. complete .		
	(a) in cement mortar 1:3 (1cement:3coarse sand)	sqm	1044.40 (Rupees one thousand forty four and paise forty) only.
	(b) in cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	1018.90 (Rupees one thousand eighteen and paise ninety) only.
6.10	Extra for 7.5 cm thick brick masonry in superstructure above floor two level for every two floors or part thereof.	sqm	74.10 (Rupees seventy four and paise ten) only.
6.11	Extra for providing and placing in position 2 nos 6mm dia. MS bars at every third course of 7.5 cm thick brick masonry.	sqm	77.50

6. BRICK WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees seventy seven and paise fifty) only.
6.12	Dry brick pitching half brick thick in drains with first class brick including supply of bricks and preparing surface complete.	sqm	1435.60 (Rupees one thousand four hundred thirty five and paise sixty) only.
6.13	Extra for forming cavity 5cm to 7.5cm 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 300mm long of 25x3mm section at not less than 3 ties per sqm as per approved design.	sqm	166.10 (Rupees one hundred sixty six and paise ten) only.
6.14	Brick work in plain arches in superstructure above plinth level and upto floor five level including centring and shuttering complete for span upto 6 metres with 1st Class bricks in cement mortar 1:3 (1 cement : 3 coarse sand).	cum	17243.50 (Rupees seventeen thousand two hundred forty three and paise fifty) only.
6.15	Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring and shuttering complete, for span upto 6 meters with 2nd Class Bricks .	cum	17327.90 (Rupees seventeen thousand three hundred twenty seven and paise ninety) only.
6.16	Extra for additional cost of centring for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).	sqm	276.70 (Rupees two hundred seventy six and paise seventy) only.
6.17	Brick work with selected 1st Class bricks in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level upto plinth level in cement mortar 1:6 (1 cement : 6 coarse sand) .		
	(a) From ground level upto plinth level.	cum	12433.90 (Rupees twelve thousand four hundred thirty three and paise ninety) only.
	(b) Above plinth level and upto floor V level.	cum	13483.50

6. BRICK WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees thirteen thousand four hundred eighty three and paise fifty) only.
6.18	Brick work with modular First Class bricks in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).	cum	17372.90 (Rupees seventeen thousand three hundred seventy two and paise ninety) only.
6.19	Brick edging laid lengthwise with 2nd Class half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.	rm	85.70 (Rupees eighty five and paise seventy) only.
6.20	Making plinth protection with 1st Class bricks laid on edge in cement mortar 1:6 (1 cement : 6 coarse sand) with 12 mm thick bed of cement mortar 1:6 (1cement : 6 coarse sand) over 75 mm bed of dry brick aggregate 40 mm nominal size rammed, consolidated and grouted with fine sand and the top of bricks pointed with cement mortar 1:3 (1 cement : 3 fine sand).	sqm	1964.10 (Rupees one thousand nine hundred sixty four and paise ten) only.
6.21	Brick edging 7cm wide 11.4cm deep to plinth protection with First Class Bricks including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	rm	117.80 (Rupees one hundred seventeen and paise eighty) only.
6.22	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	cum	8890.50 (Rupees eight thousand eight hundred ninety and paise fifty) only.

7. STONE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
7.01	Regular coursed rubble masonry with hard stone in foundation upto one storey above and below ground level including curing, etc. complete.		
	a) in cement mortar 1 : 3 (1cement : 3 fine sand)	cum	7406.00 (Rupees seven thousand four hundred six) only.
	b) in cement mortar 1 : 4 (1cement : 4 fine sand)	cum	6982.60 (Rupees six thousand nine hundred eighty two and paise sixty) only.
	c) in cement mortar 1 : 6 (1cement : 6 fine sand)	cum	6514.20 (Rupees six thousand five hundred fourteen and paise twenty) only.
7.02	Extra for regular coursed rubble masonry with hard stone in superstructure above floor two level for every two floors or part thereof.	cum	598.80 (Rupees five hundred ninety eight and paise eighty) only.
7.03	Coursed rubble masonry(First sort) with hard stone in foundation and plinth with:		
	(a) cement mortar 1 : 3 (1cement : 3 coarse sand)	cum	6863.50 (Rupees six thousand eight hundred sixty three and paise fifty) only.
	(b) in cement mortar 1 : 4 (1cement : 4 coarse sand)	cum	6272.80 (Rupees six thousand two hundred seventy two and paise eighty) only.
	(c) in cement mortar 1 : 6 (1cement : 6 coarse sand)	cum	5826.90 (Rupees five thousand eight hundred twenty six and paise ninety) only.
7.04	Coursed rubble masonry(second sort) with hard stone in foundation and plinth with:		
	(a) cement mortar 1 : 3 (1cement : 3 coarse sand)	cum	6614.70 (Rupees six thousand six hundred fourteen and paise seventy) only.
	(b) in cement mortar 1 : 4 (1cement : 4 coarse sand)	cum	6272.80 (Rupees six thousand two hundred seventy two and paise eighty) only.

7. STONE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) in cement mortar 1 : 6 (1cement : 6 coarse sand)	cum	5826.90 (Rupees five thousand eight hundred twenty six and paise ninety) only.
7.05	Coursed rubble masonry(First sort) with hard stone in sperstructure above plinth level and upto floor five level with:		
	(a) cement mortar 1 : 3 (1cement : 3 coarse sand)	cum	7666.20 (Rupees seven thousand six hundred sixty six and paise twenty) only.
	(b) in cement mortar 1 : 4 (1cement : 4 coarse sand)	cum	7242.80 (Rupees seven thousand two hundred forty two and paise eighty) only.
	(c) in cement mortar 1 : 6 (1cement : 6 coarse sand)	cum	6796.90 (Rupees six thousand seven hundred ninety six and paise ninety) only.
7.06	Coursed rubble masonry(second sort) with hard stone in sperstructure above plinth level and upto floor five level with:		
	(a) cement mortar 1 : 3 (1cement : 3 coarse sand)	cum	7444.00 (Rupees seven thousand four hundred forty four) only.
	(b) cement mortar 1 : 4 (1cement :4 coarse sand)	cum	7020.60 (Rupees seven thousand twenty and paise sixty) only.
	(c) cement mortar 1 : 6(1cement :6 coarse sand)	cum	6574.70 (Rupees six thousand five hundred seventy four and paise seventy) only.
7.07	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:5:10 (20mm nominal size) upto plinth level with :		
	a) in cement mortar 1 : 3 (1cement : 3 coarse sand)	cum	7311.60 (Rupees seven thousand three hundred eleven and paise sixty) only.
	b) in cement mortar 1 : 4 (1cement : 4 coarse sand)	cum	6845.90 (Rupees six thousand eight hundred forty five and paise ninety) only.

7. STONE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	c) in cement mortar 1 : 6 (1cement : 6 coarse sand)	cum	6355.30 (Rupees six thousand three hundred fifty five and paise thirty) only.
7.08	Coursed masonry with rectangular sized hard stone in foundation upto one storey above and below ground level including curing, etc. complete.		
	a) in cement mortar 1 : 3 (1cement : 3 fine sand)	cum	9190.40 (Rupees nine thousand one hundred ninety and paise forty) only.
	b) in cement mortar 1 : 4 (1cement : 4 fine sand)	cum	8892.70 (Rupees eight thousand eight hundred ninety two and paise seventy) only.
	c) in cement mortar 1 : 6 (1cement : 6 fine sand)	cum	8992.80 (Rupees eight thousand nine hundred ninety two and paise eighty) only.
7.09	Stone work in plain ashlar in cement mortar 1:6 in superstructure including pointing with cement mortar 1:2 (1white cement : 2fine sand). One Faced dressed		
	a) Local Stone Masonry	cum	33956.00 (Rupees thirty three thousand nine hundred fifty six) only.
	b) Sand Stone Masonry	cum	31925.00 (Rupees thirty one thousand nine hundred twenty five) only.
7.10	Stone work ashlar punched (ordinary) in cement mortar 1:6 in superstructure including pointing with cement mortar 1:2 (1white cement : 2fine sand). One Faced dressed		
	a) Local Stone Masonry	cum	32272.00 (Rupees thirty two thousand two hundred seventy two) only.
	b) Sand Stone Masonry	cum	30240.00 (Rupees thirty thousand two hundred forty) only.

7. STONE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
7.11	Dry coursed masonry wall with chiesel dressed face stone and hammer dressed inner stone in retaining walls, abutment, etc. <i>(When the total height of structure is not exceeding 4.20m)</i>	cum	7025.60 (Rupees seven thousand twenty five and paise sixty) only.
7.12	Constructing hand packed dry stone walls with stone boulders including excavation in foundation and filling in trenches, etc. including supply of stone, labour, etc. complete.	cum	1782.70 (Rupees one thousand seven hundred eighty two and paise seventy) only.
7.13	Stone pitching in cement mortar 1:3 <i>(1 cement : 3 sand)</i> in slopes of roads, in slopes of embankments etc. including supply of stone and preparing surface, etc. complete.	cum	5875.90 (Rupees five thousand eight hundred seventy five and paise ninety) only.
7.14	Dry stone pitching 22.50 cm thick including supply of stones and preparing surface complete.	sqm	560.60 (Rupees five hundred sixty and paise sixty) only.
7.15	Providing and laying boulder casing with zinc galvanised wire mesh of approved quality. Providing the same wire mesh 3.00mm dia mesh, 4mm dia salvadge wire, 100x110mm mesh opening, partitioned at every 1.20m to 2.50m and joining with 2.20 mm lacing wire. with 16mm dia T/S. bars hold fast at 1.20m to 2.00m intervals complete. (Maccaferri or equivalent quality).	cum	3826.60 (Rupees three thousand eight hundred twenty six and paise sixty) only.
7.16	Providing and laying boulder casing with poly sheet goat proof wire (4" x 4") netting of approved quality. Providing the same wire net partitioned at every 1.20m to 2.50m and joining with the gauger wire etc. with 16mm dia T/S bars hold fast at 1.20m to 2.00m intervals complete .	cum	5644.00 (Rupees five thousand six hundred forty four) only.
7.17	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification. (a) Gravelly material.	cum	1086.00 (Rupees one thousand eighty six) only.

7. STONE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Sandy material.	cum	3704.90 (Rupees three thousand seven hundred four and paise ninety) only.
7.18	Providing weep holes in brick masonry/stone masonry, plain/reinforced concrete, abutment, wing wall, return wall with 100mm dia AC pipe extending through the full width of the structure with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification.	Rm	635.70 (Rupees six hundred thirty five and paise seventy) only.
7.19	Providing weep holes in brick masonry/stone masonry, plain/reinforced concrete, abutment, wing wall, return wall with 100mm dia PVC pipe extending through the full width of the structure with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification.	Rm	1033.60 (Rupees one thousand thirty three and paise sixty) only.
7.20	8 inches thick stone walling insuperstructure above plinth level upto floor five level including curing, etc. complete.		
	a) in cement moratar 1:3 (1 cement : 3coarse sand)	sqm	1076.80 (Rupees one thousand seventy six and paise eighty) only.
	b) in cement mortar 1 : 4 (1 cement : 4coarse sand)	sqm	1037.30 (Rupees one thousand thirty seven and paise thirty) only.
7.21	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	1173.70 (Rupees one thousand one hundred seventy three and paise seventy) only.

8. MARBLE AND GRANITE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

Sl No	DESCRIPTION	UNIT	RATE (Rs p)
8.01	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of 12 mm thick average in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately).		
	(a) Raj Nagar Plain white marble / green white marble / plain white marble.	sqm	6901.10 (Rupees six thousand nine hundred one and paise ten) only.
	(b) Green marble granite polish.	sqm	7110.90 (Rupees seven thousand one hundred ten and paise ninety) only.
8.02	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.		
	(a) Raj Nagar Plain white marble / green white marble / plain white marble.	sqm	5923.90 (Rupees five thousand nine hundred twenty three and paise ninety) only.
	(b) Green marble granite polish.	sqm	6055.60 (Rupees six thousand fifty five and paise sixty) only.
	(c) Granite (general black)	sqm	7851.30 (Rupees seven thousand eight hundred fifty one and paise thirty) only.
	(d) Granite (galaxy black)	sqm	8113.50 (Rupees eight thousand one hundred thirteen and paise fifty) only.
	(e) Granite (telephone black)	sqm	7983.00 (Rupees seven thousand nine hundred eighty three) only.

8. MARBLE AND GRANITE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

Sl No	DESCRIPTION	UNIT	RATE (Rs p)
	(f) Granite (general red)	sqm	8245.20 (Rupees eight thousand two hundred forty five and paise twenty) only.
	(g) Granite (red)	sqm	8507.40 (Rupees eight thousand five hundred seven and paise forty) only.
8.03	Providing edge moulding to 18mm thick marble stone counters, Vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
	(a) Marble work	rm	321.60 (Rupees three hundred twenty one and paise sixty) only.
	(b) Granite work.	rm	528.30 (Rupees five hundred twenty eight and paise thirty) only.
8.04	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.		
		rm	582.30 (Rupees five hundred eighty two and paise thirty) only.
8.05	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.		
		per openin	704.90 (Rupees seven hundred four and paise ninety) only.
8.06	Mirror polishing on marble work/stone work wherever required to give high gloss finish complete.		
		sqm	320.90 (Rupees three hundred twenty and paise ninety) only.
8.07	Providing and fixing cramps of required size & shape in RCC/ CC backing with cement mortar 1:2 (1 cement :2 coarse sand) including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).		
	(a) Gunmetal cramps.	kg	1311.60

8. MARBLE AND GRANITE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

Sl No	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand three hundred eleven and paise sixty) only.
	(b) Stainless steel cramps.	kg	1419.50 (Rupees one thousand four hundred nineteen and paise fifty) only.
8.08	Providing and fixing expansion hold fasteners on C.C. /R.C.C. surface backing including drilling necessary holes and the cost of bolt etc complete.		
	(A) Wedge expansion type		
	(a) Fastner with threaded dia 1/4" or 6 mm.	no	84.50 (Rupees eighty four and paise fifty) only.
	(b) Fastner with threaded dia 3/8" or 10 mm.	no	74.80 (Rupees seventy four and paise eighty) only.
	(c) Fastner with threaded dia 1/2" or 12 mm.	no	120.90 (Rupees one hundred twenty and paise ninety) only.
8.09	Providing and fixing copper pins 7.5 cm long of 6 mm diameter in cement mortar 1:2 (1 cement : 2 fine sand) including making necessary chases .	no	45.10 (Rupees forty five and paise ten) only.
8.10	Providing and fixing stone dowel 10x5x2.5 cm cut to double wedge shape as per design, in cement mortar 1:2 (1 cement : 2 fine sand) including making necessary chases.	no	44.20 (Rupees forty four and paise twenty) only.
8.11	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.	sqm	5601.60 (Rupees five thousand six hundred one and paise sixty) only.

URINAL PARTITION

- 8.12** Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy

8. MARBLE AND GRANITE WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

Sl No	DESCRIPTION	UNIT	RATE (Rs p)
	grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.		
	(a) White Agaria Marble Stone	sqm	3230.40 (Rupees three thousand two hundred thirty and paise forty) only.
	(b) Granite Stone of approved shade	sqm	6565.40 (Rupees six thousand five hundred sixty five and paise forty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.01	Supplying and fixing 1st class straight jungle heart wood round posts (<i>ban ril</i>) 15cm average dia. including supplying necessary fittings and joining with sawn timber for post etc. fixed in position complete.(excluding earthwork).	rm	972.60 (Rupees nine hundred seventy two and paise sixty) only.
9.02	Supplying and fixing 2nd class straight jungle heart wood round posts (<i>ban ril</i>) 15cm average dia. including supplying necessary fittings and joining with sawn timber for post etc. fixed in position complete.(excluding earthwork).	rm	841.70 (Rupees eight hundred forty one and paise seventy) only.
9.03	Providing 1st class local wood work dressed in frames of sill, upright, batten, post, beams, etc. as structural members fixed in position complete.	cum	38399.70 (Rupees thirty eight thousand three hundred ninety nine and paise seventy) only.
9.04	Providing 2nd class local wood work dressed in frames of sill, upright, batten, post, beams, etc. as structural members fixed in position complete.	cum	34728.60 (Rupees thirty four thousand seven hundred twenty eight and paise sixty) only.
9.05	Providing 1st class teak wood dressed in frames of chaukhat for doors, windows, clerestory windows fixed in position.	cum	51372.80 (Rupees fifty one thousand three hundred seventy two and paise eighty) only.
9.06	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.	cum	51372.80 (Rupees fifty one thousand three hundred seventy two and paise eighty) only.
9.07	Providing 2nd class local wood work dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.	cum	47602.80 (Rupees forty seven thousand six hundred two and paise eighty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.08	Providing 1st class local wood in trusses etc. including hoisting fixing in position supplying necessary fittings such as spikes bolts and nuts, nails etc and applying wood preservative for unexposed surface etc. complete.	cum	41262.80 (Rupees forty one thousand two hundred sixty two and paise eighty) only.
9.09	Providing 2nd class local wood in trusses, etc. including hoisting, fixing in position, supplying necessary fittings such as spikes, nuts and bolts, nails, etc. and applying wood preservative for unexposed surfaces etc. complete.	cum	37327.90 (Rupees thirty seven thousand three hundred twenty seven and paise ninety) only.
9.10	Providing and fixing 1st class teak wood <i>panelled</i> shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.		
	(a) 40 mm thick.	sqm	3134.00 (Rupees three thousand one hundred thirty four) only.
	(b) 35 mm thick.	sqm	3026.00 (Rupees three thousand twenty six) only.
	(c) 30 mm thick.	sqm	2917.90 (Rupees two thousand nine hundred seventeen and paise ninety) only.
	(d) 25 mm thick.	sqm	2809.90 (Rupees two thousand eight hundred nine and paise ninety) only.
9.11	Providing and fixing 1st class local wood <i>panelled</i> shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.		
	(a) 40 mm thick.	sqm	3323.60 (Rupees three thousand three hundred twenty three and paise sixty) only.
	(b) 35 mm thick.	sqm	3200.10 (Rupees three thousand two hundred and paise ten) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 30 mm thick.	sqm	3076.70 (Rupees three thousand seventy six and paise seventy) only.
	(d) 25 mm thick.	sqm	2953.20 (Rupees two thousand nine hundred fifty three and paise twenty) only.
9.12	Providing and fixing 1st class teak wood <i>panelled and glazed</i> shutters using 4mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary screws, etc. complete.		
	(a) 40 mm thick.	sqm	3096.10 (Rupees three thousand ninety six and paise ten) only.
	(b) 35 mm thick.	sqm	2988.10 (Rupees two thousand nine hundred eighty eight and paise ten) only.
	(c) 30 mm thick.	sqm	2864.60 (Rupees two thousand eight hundred sixty four and paise sixty) only.
	(d) 25 mm thick.	sqm	2741.10 (Rupees two thousand seven hundred forty one and paise ten) only.
9.13	Providing and fixing 1st class local wood <i>panelled and glazed</i> shutters using 4mm thick plate sheet glass for doors and windows etc. including M.S. butt hinges with necessary screws, etc. complete.		
	(a) 40 mm thick.	sqm	3265.80 (Rupees three thousand two hundred sixty five and paise eighty) only.
	(b) 35 mm thick.	sqm	3142.40 (Rupees three thousand one hundred forty two and paise forty) only.
	(c) 30 mm thick.	sqm	3001.30 (Rupees three thousand one and paise thirty) only.
	(d) 25 mm thick.	sqm	2860.20 (Rupees two thousand eight hundred sixty and paise twenty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.14	Providing and fixing 1st class teak wood <i>glazed</i> shutters using 4mm thick plate sheet glass for doors, windows, etc. including M.S. butt hinges with necessary screws complete.		
	(a) 40 mm thick.	sqm	2859.80 (Rupees two thousand eight hundred fifty nine and paise eighty) only.
	(b) 35 mm thick.	sqm	2751.80 (Rupees two thousand seven hundred fifty one and paise eighty) only.
	(c) 30 mm thick.	sqm	2643.70 (Rupees two thousand six hundred forty three and paise seventy) only.
	(d) 25 mm thick.	sqm	2520.30 (Rupees two thousand five hundred twenty and paise thirty) only.
9.15	Providing and fixing 1st class local wood <i>glazed</i> shutters using 4mm thick plate sheet glass for doors, windows, etc. including M.S. butt hinges with necessary screws complete.		
	(a) 40 mm thick.	sqm	3000.90 (Rupees three thousand and paise ninety) only.
	(b) 35 mm thick.	sqm	2877.40 (Rupees two thousand eight hundred seventy seven and paise forty) only.
	(c) 30 mm thick.	sqm	2754.00 (Rupees two thousand seven hundred fifty four) only.
	(d) 25 mm thick.	sqm	2612.90 (Rupees two thousand six hundred twelve and paise ninety) only.
9.16	Deduct if fixed shutters (without hinges) are provided instead of openable shutters for doors, windows etc.	sqm	430.20 (Rupees four hundred thirty and paise twenty) only.
9.17	Providing and fixing 1st class teak wood <i>glazed</i> fixed shutters using 4mm thick plate sheet glass for doors, windows, etc. screws complete.		

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 40 mm thick.	sqm	2429.60 (Rupees two thousand four hundred twenty nine and paise sixty) only.
	(b) 35 mm thick.	sqm	2321.60 (Rupees two thousand three hundred twenty one and paise sixty) only.
	(c) 30 mm thick.	sqm	2213.50 (Rupees two thousand two hundred thirteen and paise fifty) only.
	(d) 25 mm thick.	sqm	2090.10 (Rupees two thousand ninety and paise ten) only.
9.18	Providing and fixing 1st class local wood <i>glazed</i> fixed shutters using 4mm thick plate sheet glass for doors, windows, etc. screws complete.		
	(a) 40 mm thick.	sqm	2570.70 (Rupees two thousand five hundred seventy and paise seventy) only.
	(b) 35 mm thick.	sqm	2447.20 (Rupees two thousand four hundred forty seven and paise twenty) only.
	(c) 30 mm thick.	sqm	2323.80 (Rupees two thousand three hundred twenty three and paise eighty) only.
	(d) 25 mm thick.	sqm	2182.70 (Rupees two thousand one hundred eighty two and paise seventy) only.
9.19	Extra for providing 5mm thick ordinary glass panes instead of 4mm thick in <i>panelled and glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>).	sqm	82.70 (Rupees eighty two and paise seventy) only.
9.20	Extra for providing 4mm thick frosted glass panes instead of ordinary glass panes 4mm thick in <i>panelled and glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>)	sqm	62.00 (Rupees sixty two) only.
9.21	Extra for providing 5mm thick frosted glass panes instead of ordinary glass panes 4mm thick in <i>panelled and glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>) .	sqm	138.50

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one hundred thirty eight and paise fifty) only.
9.22	Extra for providing 5mm thick ordinary glass panes instead of 4mm thick in <i>glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>).	sqm	140.00 (Rupees one hundred forty) only.
9.23	Extra for providing 4mm thick frosted glass panes instead of ordinary glass panes 4mm thick in <i>glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>)	sqm	105.00 (Rupees one hundred five) only.
9.24	Extra for providing 5mm thick frosted glass panes instead of ordinary glass panes 4mm thick in <i>glazed</i> doors, windows etc.(<i>area of doors, windows etc. to be measured</i>) .	sqm	245.00 (Rupees two hundred forty five) only.
9.25	Providing and fixing 20mm thick 1st class local wood <i>battened and braced</i> shutters for doors and windows with necessary ledges and braces 25mm thick including bright finished or/and black enamelled M.S T-hinges at ledges with necessary screws.	sqm	2545.20 (Rupees two thousand five hundred forty five and paise twenty) only.
9.26	Providing and fixing 20mm thick 2nd class local wood battened and braced shutters for doors and windows with necessary ledges and braces 25mm thick including bright finished or/and black enamelled M.S T-hinges at ledges with necessary screws.	sqm	2460.40 (Rupees two thousand four hundred sixty and paise forty) only.
9.27	Providing and fixing hollow core flush door shutters with frame of 1st class local wood and well matched teak ply 4mm thick veneering with vertical grains or cross bands and face veneers on both faces of shutters including M.S. butt hinges with necessary screws.		
	(a) 35mm thick.	sqm	2948.30 (Rupees two thousand nine hundred forty eight and paise thirty) only.
	(b) 30mm thick.	sqm	2874.80 (Rupees two thousand eight hundred seventy four and paise eighty) only.
9.28	Providing and fixing hollow core flush door shutters with frame of 1st class local wood and well matched commercial plywood 4mm		

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	thick veneering with vertical grains or cross bands and face veneers on both faces of shutters including M.S. butt hinges with necessary screws.		
	(a) 35mm thick.	sqm	3082.00 (Rupees three thousand eighty two) only.
	(b) 30mm thick.	sqm	2988.00 (Rupees two thousand nine hundred eighty eight) only.
9.29	Providing and fixing hollow core flush door shutters with frame of 1st class local wood and well matched commercial plywood 4mm thick veneering with vertical grains or cross bands and face veneers on one face and inner face with alluminium plain sheet including M.S. butt hinges with necessary screws.		
	(a) 35mm thick.	sqm	2924.90 (Rupees two thousand nine hundred twenty four and paise ninety) only.
	(b) 30mm thick.	sqm	2830.80 (Rupees two thousand eight hundred thirty and paise eighty) only.
9.30	Providing and fixing wire gauge shutters with frames of 1st class local wood using galvanised M/S wire gauge of average width of aperture 1.4mm with wire of dia. 0.63mm for doors, windows and clerestory windows including bright finished or/and black enamelled M/S butt hinges with necessary screws.		
	(a) 35mm thick.	sqm	2558.40 (Rupees two thousand five hundred fifty eight and paise forty) only.
	(b) 30mm thick.	sqm	2470.20 (Rupees two thousand four hundred seventy and paise twenty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.31	Providing and fixing 40mm thick panelled door shutter comprising of styles and rails of seasoned teak wood with panels of Duratuff board 25mm thick as per required architectural design including M.S. butt hinges with necessary screws but excluding varnishing/painting etc.	sqm	5970.10 (Rupees five thousand nine hundred seventy and paise ten) only.
9.32	Providing and fixing readymade door (Masonite or equivalent quality) including M.S. butt hinges with necessary screws complete.		
(a)	35mm Readymade White primer Door	sqm	4924.00 (Rupees four thousand nine hundred twenty four) only.
(b)	35mm Readymade Teak Veneer Door	sqm	6114.50 (Rupees six thousand one hundred fourteen and paise fifty) only.
9.33	Providing and fixing 25mm thick panelled or panelled and glazed shutters for cupboards etc. including butt hinges, handles, and locking arrangements complete. 4mm thick glass.		
(a)	Using 1st class teak wood.	sqm	2271.70 (Rupees two thousand two hundred seventy one and paise seventy) only.
(b)	Using 1st class local wood.	sqm	2199.00 (Rupees two thousand one hundred ninety nine) only.
9.34	Providing and fixing 25mm thick MDF board greenply or equivalent panelled shutters for cupboards etc. including butt hinges, handles, and locking arrangements complete.		
(a)	Using MDF board greenply or equivalent.	sqm	2104.10 (Rupees two thousand one hundred four and paise ten) only.
(b)	Using WPC Alstone board or equivalent.	sqm	2909.10 (Rupees two thousand nine hundred nine and paise ten) only.
9.35	Providing and fixing cupboard shutters with frame of 25mm thick 1st class local wood and well matched plywood on external side including butt hinges, handles, and locking arrangements complete.		

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Using 4mm thick teak ply.	sqm	1439.10 (Rupees one thousand four hundred thirty nine and paise ten) only.
	(b) Using 4mm thick commercial ply.	sqm	1051.40 (Rupees one thousand fifty one and paise forty) only.
9.36	Providing and fixing counter sliding door shutter using 8mm thick Zonun bamboo ,atply including wooden frames of 1st class local wood, aluminium U-frame and channels, handles and locking arrangements complete .	sqm	5044.60 (Rupees five thousand forty four and paise sixty) only.
9.37	Providing 1st class local wood work dressed in frames of false ceiling, partitions, etc. sawn and fixed in position.	cum	41086.10 (Rupees forty one thousand eighty six and paise ten) only.
9.38	Providing 2nd class local wood work dressed in frames of false ceiling, partitions, etc. sawn and fixed in position.	cum	37564.80 (Rupees thirty seven thousand five hundred sixty four and paise eighty) only.
9.39	Providing and fixing glazed shutter for internal partition wall including black enamelled MS butt hinges with necessary screws including cost of glazed panelling .	sqm	2944.80 (Rupees two thousand nine hundred forty four and paise eighty) only.
9.40	Providing 50 x 50 x 50mm 1st class local wood plugs including cutting in masonry works and fixing in cement mortar 1:3: (1 cement :3 fine sand) including curing etc. complete.	no	17.30 (Rupees seventeen and paise thirty) only.
9.41	Providing and fixing dressed 1st class local wood shelves supported on wooden brackets 50mmx70mm fixed at suitable distance but not exceeding 75cm apart etc. complete.		
	(a) 35mm thick	sqm	3163.50 (Rupees three thousand one hundred sixty three and paise fifty) only.
	(b) 25mm thick	sqm	2719.10 (Rupees two thousand seven hundred nineteen and paise ten) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.42	Providing and fixing dressed 2nd class local wood shelves supported on wooden brackets fixed at suitable distance but not exceeding 75cm apart etc. complete.		
	(a) 35mm thick	sqm	2992.90 (Rupees two thousand nine hundred ninety two and paise ninety) only.
	(b) 25mm thick	sqm	2576.20 (Rupees two thousand five hundred seventy six and paise twenty) only.
9.43	Supplying, fitting and fixing decorative wood railing 80cm high in staircase etc. including dressing wood in round 16cm to 20cm circumference and fixed wooden wedge dressing wood for wedge etc. complete.		
	(a) Using 1st class teak wood.	Rm	2831.80 (Rupees two thousand eight hundred thirty one and paise eighty) only.
	(b) Using 1st class local wood.	Rm	2758.00 (Rupees two thousand seven hundred fifty eight) only.
9.44	Supplying, fitting and fixing decorative /design wood Newel Post in square 90mmx90mm in staircase etc. including dressing wood in round 16cm to 20cm circumference and fixed wooden wedge dressing wood for wedge etc. complete.		
	(a) Square 90mmx90mm		
	(i) Using 1st class teak wood.	rm	2676.50 (Rupees two thousand six hundred seventy six and paise fifty) only.
	(ii) Using 1st class local wood.	rm	2619.40 (Rupees two thousand six hundred nineteen and paise forty) only.
	(b) Round 90mm dia.		
	(i) Using 1st class teak wood.	rm	2784.50 (Rupees two thousand seven hundred eighty four and paise fifty) only.
	(ii) Using 1st class local wood.	rm	2727.40 (Rupees two thousand seven hundred twenty seven and paise forty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) Round decorative 90mm dia. (i) Using 1st class teak wood.	rm	3096.10 (Rupees three thousand ninety six and paise ten) only.
9.45	Supplying, fitting and fixing wooden balustrade in staircase etc.including dressing wood and smooth finished etc. complete.		
	(a) Square 50mmx50mm (i) Using 1st class teak wood.	rm	2324.90 (Rupees two thousand three hundred twenty four and paise ninety) only.
	(ii) Using 1st class local wood.	rm	2328.50 (Rupees two thousand three hundred twenty eight and paise fifty) only.
	(iii) Using 2nd class local wood.	rm	2286.00 (Rupees two thousand two hundred eighty six) only.
	(b) Round 50 mm dia (i) Using 1st class teak wood.	rm	2432.90 (Rupees two thousand four hundred thirty two and paise ninety) only.
	(ii) Using 1st class local wood.	rm	2413.50 (Rupees two thousand four hundred thirteen and paise fifty) only.
	(iii) Using 2nd class local wood.	rm	2394.00 (Rupees two thousand three hundred ninety four) only.
	(c) Round decorative 50mm dia. (i) Using 1st class teak wood.	rm	2744.40 (Rupees two thousand seven hundred forty four and paise forty) only.
9.46	Supplying and fixing MS decorative railing 80cm high in staircase consisting of 25mm MS aluminium square section @ 10cm centre to centre, 60 x 60 x 4mm thick base plate at the base fixed with wooden handrail with screws to receive the wooden handrails 12.5cm x 10cm including cost of polishing wooden handrails and MS railings.	rm	2277.50 (Rupees two thousand two hundred seventy seven and paise fifty) only.
9.47	Providing treatment of anti-termite on woods.	rm	65.80

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees sixty five and paise eighty) only.
9.48	Providing and fixing wooden pelmet with 25mm dia wooden curtain rod and bracket including sleeves etc. complete (to be fixed on masonry or concrete work)		
	(a) 1st class teak wood		
	(i) 12mm thick 100mm wide Pelmet.	rm	285.50 (Rupees two hundred eighty five and paise fifty) only.
	(ii) 12mm thick 150 cm wide Pelmet.	rm	357.80 (Rupees three hundred fifty seven and paise eighty) only.
	(b) 1st class local wood		
	(i) 12mm thick 100 cm wide Pelmet.	rm	305.10 (Rupees three hundred five and paise ten) only.
	(ii) 12mm thick 150 cm wide Pelmet.	rm	380.80 (Rupees three hundred eighty and paise eighty) only.
9.49	Providing and fixing wooden pelmet with 25mm dia wooden curtain rod and bracket etc. complete <i>(to be fixed on wood work)</i>		
	(a) 1st class teak wood		
	(i) 12mm thick 100 cm wide Pelmet.	rm	283.20 (Rupees two hundred eighty three and paise twenty) only.
	(ii) 12mm thick 150 cm wide Pelmet.	rm	355.50 (Rupees three hundred fifty five and paise fifty) only.
	(b) 1st class local wood		
	(i) 12mm thick 100 cm wide Pelmet.	rm	378.40 (Rupees three hundred seventy eight and paise forty) only.
	(ii) 12mm thick 150 cm wide Pelmet.	rm	324.60 (Rupees three hundred twenty four and paise sixty) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.50	Providing and fixing 25mm thick 25cm wide wooden eaves board.		
	(a) Ornamental eaves board		
	(i) Using 1st class local wood	rm	324.60 (Rupees three hundred twenty four and paise sixty) only.
	(ii) Using 2nd class local wood	rm	287.40 (Rupees two hundred eighty seven and paise forty) only.
	(b) Local eaves board		
	(i) Using 1st class local wood	rm	294.70 (Rupees two hundred ninety four and paise seventy) only.
	(ii) Using 2nd class local wood	rm	257.50 (Rupees two hundred fifty seven and paise fifty) only.
9.51	Providing and fixing flat iron ties 3mm x 2cm x 20cm L-section with galvanised screw for joints of post plate and upright in Assam type building.	no	69.80 (Rupees sixty nine and paise eighty) only.
9.52	Providing and fixing flat iron ties 3mm x 2cm x 15cm section with galvanised screw for joints of post plate and roof truss in Assam type building.	no	15.50 (Rupees fifteen and paise fifty) only.
9.53	Providing and fixing dressed & chamfered 1st class local wood door and window architrave fixed with sleeves on door chaukhat etc complete.		
	(a) 100mm X 12 mm	rm	229.00 (Rupees two hundred twenty nine) only.
	(b) 75 mm X 12 mm	rm	218.00 (Rupees two hundred eighteen) only.
	(c) 50 mm X 12 mm	rm	207.00 (Rupees two hundred seven) only.

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
9.54	Providing and fixing dressed & chamfered 1st class local wood door and window architrave of size fixed with wooden plug on door chaukhat etc complete.		
	(a) 100mm X 12mm	rm	235.25 (Rupees two hundred thirty five and paise twenty five) only.
	(b) 75 mm X 12 mm	rm	222.68 (Rupees two hundred twenty two and paise sixty eight) only.
	(c) 50 mm X 12 mm	rm	210.11 (Rupees two hundred ten and paise eleven) only.
9.55	Providing and fixing factory made PVC door frame made of PVC extruded section (Chaukhat) having overall dimension of 48x40 mm (tolerance + 1 mm) with wall thickness 2.0 mm + 0.2 mm, corners of the door frame to be mitred and joined by means of plastic/M.S. galvanised brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanised M.S. tube of size 19x19 mm and 1 mm + 0.1 mm wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge. (Sintex, Plasopan or equivalent) :		
		rm	225.80 (Rupees two hundred twenty five and paise eighty) only.
9.56	Factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (\pm 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (\pm 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (\pm 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (\pm 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter) (Sintex, Plasopan or equivalent).		
	(a) 24mm thick shutter	sqm	2219.80

9. WOOD AND PVC WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees two thousand two hundred nineteen and paise eighty) only.
	(b) 30mm thick shutter	sqm	3697.30 (Rupees three thousand six hundred ninety seven and paise thirty) only.
9.57	Supplying and fixing bamboo work in trusses, frames of sill, upright, batten, post, beams, etc. as structural members fixed in position including supplying necessary fittings and joining fixed in position complete.(excluding earthwork).		
	(a) Rua average 96-100 mm dia	rm	143.80 (Rupees one hundred forty three and paise eighty) only.
	(b) Rua average 65-75 mm dia	rm	115.50 (Rupees one hundred fifteen and paise fifty) only.
	(c) Mau average 45-50mm dia	rm	106.10 (Rupees one hundred six and paise ten) only.

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
10.01	Supplying and fixing steel rolling shutter of approved make, made of required size of 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 wire spring and M.S. top cover.	sqm	4846.30 (Rupees four thousand eight hundred forty six and paise thirty) only.
10.02	Providing and fixing ball bearing for rolling shutters.	no	300.10 (Rupees three hundred and paise ten) only.
10.03	Extra for providing mechanical device, chain and crank operation for operating rolling shutters.-		
	(a) Exceeding 10.00 sqm and upto 16.80 sqm in area. <i>(average say 14.00 sqm)</i>	sqm	722.20 (Rupees seven hundred twenty two and paise twenty) only.
	(b) Exceeding 16.80 sqm in area.	sqm	921.50 (Rupees nine hundred twenty one and paise fifty) only.
10.04	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 40mm dia. steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	sqm	9905.50 (Rupees nine thousand nine hundred five and paise fifty) only.
10.05	Providing and fixing steel glazed doors, windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 <i>(1 cement : 3 coarse sand : 6 stone aggregate 20mm nominal size)</i> 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 fittings except necessary hinges or pivots as required.		

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Using 4mm thick glass panes.	sqm	5113.10 (Rupees five thousand one hundred thirteen and paise ten) only.
	(b) Using 5mm thick glass panes.	sqm	5130.60 (Rupees five thousand one hundred thirty and paise sixty) only.
	(c) Using 4mm thick frosted glass panes.	sqm	5129.40 (Rupees five thousand one hundred twenty nine and paise forty) only.
	(d) Using 4mm thick reflective glass panes.	sqm	5129.90 (Rupees five thousand one hundred twenty nine and paise ninety) only.
10.06	Providing and fixing steel glazed fixed windows, ventilators of standard rolled steel sections, joints, mitered and welded with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm size of 1:3:6 (1 cement : 3 coarse sand : 6 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 fittings.		
	(a) Using 4mm thick glass panes.	sqm	4946.50 (Rupees four thousand nine hundred forty six and paise fifty) only.
	(b) Using 5mm thick glass panes.	sqm	4964.00 (Rupees four thousand nine hundred sixty four) only.
	(c) Using 4mm thick frosted glass panes.	sqm	4962.75 (Rupees four thousand nine hundred sixty two and paise seventy five) only.
	(d) Using 4mm thick reflective glass panes.	sqm	4963.25 (Rupees four thousand nine hundred sixty three and paise twenty five) only.

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
10.07	Structural steel work rivetted, bolted welded in built up sections, trusses and framed works, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. <i>(In Tees, R.S. Joists, Angles, Flats and Channels.)</i>	kg	215.10 (Rupees two hundred fifteen and paise ten) only.
10.08	Steel work in built up tubular (round, square or rectangular hollow tubes etc.)trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	kg	176.40 (Rupees one hundred seventy six and paise forty) only.
10.09	Supplying and fixing M.S. decorative railing consisting of top and bottom rails of 40mmx40mm square or circular section at distance of 788mm apart, 30mmx30mm square or circular section decorative intermediate balusters welded to top and bottom rails at 280mm apart. The base of balusters at 560mm apart welded with base plate of 60mmx3mm thick and fixed with cement grouting firmly to concrete section including steel priming and steel painting complete etc.	sqm	2903.60 (Rupees two thousand nine hundred three and paise sixty) only.
10.10	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. (round, square or rectangular hollow tubes etc.)		
	(a) MS tube 40mm @ 3.6 Kg/m	kg	178.20 (Rupees one hundred seventy eight and paise twenty) only.
	(a) GI tube 40mm @ 3.72 Kg/m	kg	189.70 (Rupees one hundred eighty nine and paise seventy) only.
10.11	Providing and fixing prefabricated M.S. equal angle in chaukhat for doors, windows and clerestory windows including fixing with 40 x 5mm M.S holdfast 40cm long at required spacing and applying priming coat with approved steel primer etc. complete.		

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Using 50 x 50 x 5mm M.S. angle.	rm	829.90 (Rupees eight hundred twenty nine and paise ninety) only.
	(b) Using 50 x 50 x 6mm M.S. angle.	rm	915.20 (Rupees nine hundred fifteen and paise twenty) only.
10.12	Providing and fixing a pair of flat iron brackets in concrete work while laying for jointing with timber post etc. including cost of bolts and nuts complete.	pair	164.40 (Rupees one hundred sixty four and paise forty) only.
10.13	Providing and fixing M.S. round or square bars without M.S flats at required spacings in wooden frame of windows and clerestory windows.	kg	90.60 (Rupees ninety and paise sixty) only.
10.14	Providing and fixing M.S. round or square bars with M.S flats at required spacings in wooden frame of windows and clerestory windows.	kg	86.40 (Rupees eighty six and paise forty) only.
10.15	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer		
	(a) Using M.S angles (40x40x6)mm for diagonal braces	sqm	5526.80 (Rupees five thousand five hundred twenty six and paise eighty) only.
	(b) Using flats(30x6) mm for diagonal braces and central cross piece.	sqm	5153.50 (Rupees five thousand one hundred fifty three and paise fifty) only.
10.16	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.		
	(a) In stringers, treads, landings etc. of stair-cases including use of chequered plates wherever required all complete	kg	159.90 (Rupees one hundred fifty nine and paise ninety) only.

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) In a grating, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	153.70 (Rupees one hundred fifty three and paise seventy) only.
10.17	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	122.80 (Rupees one hundred twenty two and paise eighty) only.
10.18	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	sqm	2906.90 (Rupees two thousand nine hundred six and paise ninety) only.
10.19	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	sqm	2188.70 (Rupees two thousand one hundred eighty eight and paise seventy) only.
10.20	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of 80cm high in staircase, etc consisting of 75mm for rail and post, 63mm for longitudinal intermediate rail and 25mm of vertical section, spacing 125mm interval and as per approval of Engineer-in-charge.	sqm	7828.60 (Rupees seven thousand eight hundred twenty eight and paise sixty) only.
10.21	Supplying and fixing pre-painted galvalume roller door shutters of approved make (Dura Ultima or equivalent), made of required size of curtain panel, bottom rail, polyglide, guide channel,		

10. STEEL WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	bracket, spindle assembly (spindle, spring, drum wheel) and lock system including the cost of providing and fixing complete.		
(a)	Delux roller door shutter	sqm	11698.70 (Rupees eleven thousand six hundred ninety eight and paise seventy) only.
(b)	Standard roller door shutter	sqm	10669.60 (Rupees ten thousand six hundred sixty nine and paise sixty) only.
(c)	Economy roller door shutter	sqm	9648.70 (Rupees nine thousand six hundred forty eight and paise seventy) only.

10. ALUMINIUM WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
11.01	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard sections/ other sections of approved make conforming to IS : 733 and IS : 1285 fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene gaskets etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing /panelling, CP brass /stainless steel screws all complete including fixing of glasses but excluding cost of glasses.		
	(a) Natural colour		
	(i) 2 - track sliding windows/ventilators.	sqm	4,481.60 (Rupees four thousand four hundred eighty one and paise sixty) only.
	(ii) 3 - track sliding windows/ventilators.	sqm	4,522.70 (Rupees four thousand five hundred twenty two and paise seventy) only.
	(iii) 4 - track sliding windows/ventilators.	sqm	4,412.40 (Rupees four thousand four hundred twelve and paise forty) only.
	(b) Anodised		
	(i) 2 - track sliding windows/ventilators.	sqm	4,725.10 (Rupees four thousand seven hundred twenty five and paise ten) only.
	(ii) 3 - track sliding windows/ventilators.	sqm	4,772.70 (Rupees four thousand seven hundred seventy two and paise seventy) only.
	(iii) 4 - track sliding windows/ventilators.	sqm	4,676.40 (Rupees four thousand six hundred seventy six and paise forty) only.
	(c) Powder coated		
	(i) 2 - track sliding windows/ventilators.	sqm	5,638.20 (Rupees five thousand six hundred thirty eight and paise twenty) only.
	(ii) 3 - track sliding windows/ventilators.	sqm	5,710.30 (Rupees five thousand seven hundred ten and paise thirty) only.
	(iii) 4 - track sliding windows/ventilators.	sqm	5,666.60

10. ALUMINIUM WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees five thousand six hundred sixty six and paise sixty) only.
11.02	Supplying of glass panes at site.		
	(a) 4mm thick plate sheet glass.	sqm	654.80 (Rupees six hundred fifty four and paise eighty) only.
	(b) 5mm thick plate sheet glass.	sqm	892.90 (Rupees eight hundred ninety two and paise ninety) only.
	(c) 4mm thick frosted glass	sqm	833.40 (Rupees eight hundred thirty three and paise forty) only.
	(d) 4mm thick Tinted glass.	sqm	833.40 (Rupees eight hundred thirty three and paise forty) only.
	(e) 4mm thick Reflective glass.	sqm	858.40 (Rupees eight hundred fifty eight and paise forty) only.
11.03	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately). For fixed portion.		
	(a) Natural colour	sqm	3,478.60 (Rupees three thousand four hundred seventy eight and paise sixty) only.
	(b) Anodised	sqm	3,645.70 (Rupees three thousand six hundred forty five and paise seventy) only.
	(c) Powder coated	sqm	4,272.30

10. ALUMINIUM WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees four thousand two hundred seventy two and paise thirty) only.
11.04	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required. (Glazing to be paid for separately)		
	(a) Natural colour	sqm	4,247.70 (Rupees four thousand two hundred forty seven and paise seventy) only.
	(b) Anodised	sqm	4,468.90 (Rupees four thousand four hundred sixty eight and paise ninety) only.
	(c) Powder coated	sqm	5,298.50 (Rupees five thousand two hundred ninety eight and paise fifty) only.
11.05	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .		
	(a) With glass panes of 4.0 mm thickness.	sqm	2,288.40 (Rupees two thousand two hundred eighty eight and paise forty) only.
	(b) With glass panes of 5.00 mm thickness.	sqm	2,590.90 (Rupees two thousand five hundred ninety and paise ninety) only.
	(c) With glass panes of 5.50 mm thickness.	sqm	2,731.50 (Rupees two thousand seven hundred thirty one and paise fifty) only.
	(d) Frosted glass of 4.00 mm thickness.	sqm	2,527.00 (Rupees two thousand five hundred twenty seven) only.
	(e) With 4mm thick tinted glass.	sqm	2,527.00 (Rupees two thousand five hundred twenty seven) only.
	(f) With 4mm thick reflective glass.	sqm	2,553.90 (Rupees two thousand five hundred fifty three and paise ninety) only.

10. ALUMINIUM WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
11.06	Providing and fixing 12mm thick prelaminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS : 12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in paneling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
	(a) Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	sqm	2,111.20 (Rupees two thousand one hundred eleven and paise twenty) only.
	(b) Prelaminated particle board with decorative lamination on both sides .	sqm	1,573.30 (Rupees one thousand five hundred seventy three and paise thirty) only.
11.07	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, Hardwyn make (model 3000) or equivalent for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge .		
	(a) With stainless steel cover plate	no	4,867.90 (Rupees four thousand eight hundred sixty seven and paise ninety) only.
	(b) With brass cover plate	no	5,248.60 (Rupees five thousand two hundred forty eight and paise sixty) only.
11.08	Providing and fixing anodised aluminium work (with minimum 15 micron uniform anodic coating) 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 with rawl plugs @ 450 mm centre to centre and fixing the frame work to level adjusting hangers (6 mm dia. M.S. rods) with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).		
		kg	1,026.20 (Rupees one thousand twenty six and paise twenty) only.
11.09	Providing and fixing level adjusting hangers of 6 mm dia. M.S. rods		

10. ALUMINIUM WORKS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(upto 1200mm length) fixed to roof slabs by means of M.S. angle ceiling cleats 40x40x5mm size 60 mm long and expansion hold fastners 12.5 mm dia. 50 mm long complete as per direction of Engineer-in-charge.	no	112.40 (Rupees one hundred twelve and paise forty) only.
11.10	Providing and fixing machine moulded anodised 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 screws 4mm dia. stem, 30mm long and aluminium washers 2mm thick, 15mm dia. at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete. (Anodising on the aluminium sheet 2.5mm thick and washers to be 15 micron thick) :	sqm	6,019.70 (Rupees six thousand nineteen and paise seventy) only.
11.11	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 and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width.	rm	208.20 (Rupees two hundred eight and paise twenty) only.
11.12	Installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding 4mm thick, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. complete.	sqm	6921.60 (Rupees six thousand nine hundred twenty one and paise sixty) only.
11.13	Providing and fixing aluminium strip edging to staircase including fixing with rawl plugs and screws with a thin layer of cement mortar 1:3 (1 cement : 3 coarse sand):		
	(a) Size of strip edging 57x12x3 mm	rm	263.60 (Rupees two hundred sixty three and paise sixty) only.
	(b) Size of strip edging 38x12x3 mm	rm	234.10 (Rupees two hundred thirty four and paise ten) only.

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>CEMENT CONCRETE FLOORING</u>			
12.01	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc. 40 mm thick with 20 mm nominal size stone aggregate	sqm	524.60 (Rupees five hundred twenty four and paise sixty) only.
12.02	52 mm thick Cement concrete flooring with concrete hardener topping under laayer 40 mm cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume hardening compound mixed @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.	sqm	886.80 (Rupees eight hundred eighty six and paise eighty) only.
12.03	62 mm thick Cement concrete flooring with concrete hardener topping under laayer 50 mm cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size)and top layer 12 mm thick cement hardener consisting of mix 1:2 by volume hardening compound moxed @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.	sqm	856.30 (Rupees eight hundred fifty six and paise thirty) only.
12.04	Extra for making chequers of approved pattern on cement concrete floors, steps, landings, pavements, etc.	sqm	50.60 (Rupees fifty and paise sixty) only.
12.05	Cement plaster skirting or dado (upto 30cm height) with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement including rounding of junction with floor.	sqm	466.70 (Rupees four hundred sixty six and paise seventy) only.
12.06	40mm thick red oxide flooring under layer of 30mm thick cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 12.5mm size) and top layer 10mm thick plaster of cement red oxide mix using 3.5 kg of red oxide of iron per 50kg of cement in mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement red oxide mix of same proportion including cement slurry etc. complete but excluding the cost of nosing of steps etc.	sqm	1038.30

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand thirty eight and paise thirty) only.
12.07	Red oxide plaster skirting (upto 30cm height) with top layer of 6mm 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 sand) finished with a floating coat of cement red oxide mix of the same proportion.		
	(a) 18mm thick with under layer 12mm thick cement plaster 1 : 3 (1cement : 3sand).	sqm	497.40 (Rupees four hundred ninety seven and paise forty) only.
	(b) 21mm thick with under layer 15mm thick cement plaster 1 : 3 (1cement : 3sand).	sqm	520.90 (Rupees five hundred twenty and paise ninety) only.
12.08	Providing and fixing glass strips 40mm wide and 4mm thick in joints of terrazo / cement concrete floors.	rm	70.90 (Rupees seventy and paise ninety) only.
12.09	Chequerred 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) Light shade using white cement.	sqm	1804.90 (Rupees one thousand eight hundred four and paise ninety) only.
	(b) Medium shade using 50% white cement and 50% ordinary cement.	sqm	1804.40 (Rupees one thousand eight hundred four and paise forty) only.
	(c) Dark shade using ordinary cement	sqm	1803.80 (Rupees one thousand eight hundred three and paise eighty) only.
12.10	Extra if chequered precast cement concrete tiles laid in treads of steps not exceeding 30cm in width.	sqm	51.90 (Rupees fifty one and paise ninety) only.

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>CERAMIC TILE FLOORING</u>			
12.11	Providing and ceramic glazed floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours,shades, except white,ivory,grey,fume red brown, laid on 20mm thick cement mortar 1 : 4 (1cement : 4 course sand) including pointing the joints with white cement and matching pigments etc. complete. as per designed colour.		
	(A) Gloss finish	sqm	2007.50 (Rupees two thousand seven and paise fifty) only.
	(B) Matt/Antiscratch	sqm	1983.70 (Rupees one thousand nine hundred eighty three and paise seventy) only.
	(C) Parking Tiles	sqm	2319.60 (Rupees two thousand three hundred nineteen and paise sixty) only.
<u>VITRIFIED TILE FLOORING</u>			
12.12	Providing & laying vitrified floor tiles in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622,of approved make, in all colours and shades, laid on bed of 20mm thick cement mortar 1 : 4 (1cement:4course sand), including the joints with white cement and matching pigments etc.complete.as per design collours.		
	(a) Full body polish vitrified (General)	sqm	1856.20 (Rupees one thousand eight hundred fifty six and paise twenty) only.
	(b) Nano tech (Single charge)	sqm	2053.90 (Rupees two thousand fifty three and paise ninety) only.
	(c) Double charge	sqm	2588.40 (Rupees two thousand five hundred eighty eight and paise forty) only.
	(d) Digital (Marble look)	sqm	2896.80 (Rupees two thousand eight hundred ninety six and paise eighty) only.
12.13	Providing & laying vitrified tiles in different sizes (thickness to be		

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622,of approved make, in all colours and shades, in skirting/dado, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water) based) conforming to IS:15477, in average 6mm thickness, including grouting of joints (Payment for grouting of joints to be made separately)		
	(a) Full body polish vitrified (General)	sqm	1863.50 (Rupees one thousand eight hundred sixty three and paise fifty) only.
	(b) Nano tech (Single charge)	sqm	2061.10 (Rupees two thousand sixty one and paise ten) only.
	(c) Double charge	sqm	2595.70 (Rupees two thousand five hundred ninety five and paise seventy) only.
	(d) Digital (Marble look)	sqm	2904.00 (Rupees two thousand nine hundred four) only.
12.14	Providing & laying vitrified floor tiles in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622,of approved make, in all colours and shades, in skirting/dado, riser of steps, over 12mm thick bed of cement mortar 1:3 (1cement:3course sand), including the joints with white cement and matching pigments etc.complete.		
	(a) Full body polish vitrified (General)	sqm	1867.10 (Rupees one thousand eight hundred sixty seven and paise ten) only.
	(b) Nano tech (Single charge)	sqm	2064.70 (Rupees two thousand sixty four and paise seventy) only.
	(c) Double charge	sqm	2599.20 (Rupees two thousand five hundred ninety nine and paise twenty) only.
	(d) Digital (Marble look)	sqm	2907.60 (Rupees two thousand nine hundred seven and paise sixty) only.

12.15 Providing & laying vitrified tiles in different sizes (thickness to be

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622,of approved make, in all colours and shades, in skirting/dado , riser of steps, laid with cement based high polymer modified quick set tile adhesive (water) based) conforming to IS:15477, in average 6mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		
	(a) Full body polish vitrified (General)	sqm	2031.90 (Rupees two thousand thirty one and paise ninety) only.
	(b) Nano tech (Single charge)	sqm	2229.60 (Rupees two thousand two hundred twenty nine and paise sixty) only.
	(c) Double charge	sqm	2764.10 (Rupees two thousand seven hundred sixty four and paise ten) only.
	(d) Digital (Marble look)	sqm	3072.40 (Rupees three thousand seventy two and paise forty) only.
12.16	Deduct for not grouting the joints with white cement and matching pigment in the items of fiwing of vitrified tiles.	sqm	45.90 (Rupees forty five and paise ninety) only.
12.17	Grouting the jounts of flooring tiles having joints of 3 mm width using epoxy grout mix of 0.70 kg of organic coated filler of desired shade(0.10kg of hardener and 0.20 kg of resin per kg) grouting and finishing complete as per direction of Engineer-in-charge.	sqm	379.60 (Rupees three hundred seventy nine and paise sixty) only.
12.18	Extra for ceramic tiles if cut tiles other than half tiles are to be used in risers of steps, skirtings and dado.	sqm	1335.70 (Rupees one thousand three hundred thirty five and paise seventy) only.
12.19	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to e specified by the manufacaturer),of approved make, in all colours, shades wxcept burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12mm thick bed of cemunt mortar 1:3 (1cemeny :3 coarse sand) and jointing with cement slurry @ 3.3kg per sqm,		

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	including pointing in white cement mixed with pigment of matching shade complete.	sqm	3253.30 (Rupees three thousand two hundred fifty three and paise thirty) only.
12.20	Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and/ or alkali resisting 20mm thick mortar 1:4 (1 Cement : 4 Coarse sand) bedding and joint filled with acid and/ or alkali resisting cement as per IS: 4457 complete as per the direction of Engineer-in-Charge.		
	(a) In flooring on a bed of 10mm thick mortar 1:4 (1 acid proof :4 coarse sand)	sqm	3683.20 (Rupees three thousand six hundred eighty three and paise twenty) only.
	(b) In dado/ skirting on 12mm thick mortar 1:4 (1 acid proof cement :4 coarse sand)	sqm	3767.80 (Rupees three thousand seven hundred sixty seven and paise eighty) only.
12.21	Providing & laying border tiles of approved quality, size, shape and thickness not less than 8mm of approved brand of any shade in wall & floors laid on bed of 20mm thick cement mortar 1 : 4 jointed with neat cement slurry including finishing joints with grouting in white cement mixed with pigment of matching shade complete.or/ including cutting where necessary finishing with flush pointing with Fix-A-tile (Choksey/ Sika/ Pedelite/ Rout)/ Bal Endura with Bal endura grout complete.		
	(a) Fixed with white cement	sqm	2475.10 (Rupees two thousand four hundred seventy five and paise ten) only.
12.22	Providing Swimming pool tiles of approves quality, size, shape and thickness not less than 8mm of approved brand of any shade on wall & floors of swimming pool laid on bed of 20mm thick cement mortar 1 : 3 jointed with neat cement slurry including finishing joints with grouting in white cement mixed with pigment of matching shade complete.or/ including cutting where necessary finishing with flush pointing with Fix-A-tile (Choksey/ Sika/ Pedelite/ Rout)/ Bal Endura with Bal endura grout complete.		

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Fixed with white cement	sqm	1911.30 (Rupees one thousand nine hundred eleven and paise thirty) only.
12.23	Providing & fixing homogenous sheet in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesives of approved quality and manufacturer like Dunlop S-758, Fevicol SR 998 or equivalent including rolling with light wooden roller weighting about 5kg all complete as directed by engineer-in-charge, in approved colour and shade.		
	(a) 1.5mm thick sheet	sqm	1269.40 (Rupees one thousand two hundred sixty nine and paise forty) only.
	b) 2 mm thick sheet	sqm	1350.50 (Rupees one thousand three hundred fifty and paise fifty) only.
	(c) 3 mm thick sheet	sqm	1448.30 (Rupees one thousand four hundred forty eight and paise thirty) only.
	(d) 4 mm thick sheet	sqm	1676.00 (Rupees one thousand six hundred seventy six) only.
12.24	Providing & fixing vinyl tile in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesives of approved quality and manufacturer (Armstrong or equivalent) including rolling with light wooden roller weighting about 5kg all complete as directed by engineer-in-charge, in approved colour and shade.		
	(a) General	sqm	1459.40 (Rupees one thousand four hundred fifty nine and paise forty) only.
	(b) Natural	sqm	1667.80 (Rupees one thousand six hundred sixty seven and paise eighty) only.
	(a) Decorative	sqm	1827.30 (Rupees one thousand eight hundred twenty seven and paise thirty) only.

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>STONE FLOORING</u>			
12.25	Marble stone flooring with 18mm thick marble stone as per sample of marble approved by Engineer-in-Charge over 20mm(average) thick base of cement mortar 1:4(1cement :4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :		
	(a) Raj Nagar Plain white marble/green white marble	sqm	4897.80 (Rupees four thousand eight hundred ninety seven and paise eighty) only.
	(b) Green marble granite polish	sqm	5042.10 (Rupees five thousand forty two and paise ten) only.
12.26	Extra for pre finished nosing to treads of steps of marble stone.	sqm	423.00 (Rupees four hundred twenty three) only.
12.27	Extra for marble stone flooring in treads of steps and risers using single length upto 2.00m	sqm	446.40 (Rupees four hundred forty six and paise forty) only.
12.28	White/coloured marble tile 18mm thick in skirting, riser of steps, dado upto 2m height, on 12mm (average) thick base of cement mortar 1:3 and jointed with white cement slurry @ 3.3kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	5839.40 (Rupees five thousand eight hundred thirty nine and paise forty) only.
12.29	Kota stone slab flooring over 20mm (average) thick base laid over cement mortar 1 : 4 and jointed with white cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.		
	(A) 25mm thick	sqm	2862.80 (Rupees two thousand eight hundred sixty two and paise eighty) only.
	(A) 40mm thick	sqm	3317.00 (Rupees three thousand three hundred seventeen) only.
12.30	Kota stone slab 25mm thick in skirting, risers of steps, dado and		

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	pillars laid on 12mm (average) thick base laid over cement mortar 1 : 3 and jointed with white cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.	sqm	2832.10 (Rupees two thousand eight hundred thirty two and paise ten) only.
12.31	Extra for kota stone flooring in treads of steps and risers using single length upto 1.05m.	sqm	19.80 (Rupees nineteen and paise eighty) only.
12.32	Extra for pre finished nosing in steps and treads of kota stone.	sqm	139.40 (Rupees one hundred thirty nine and paise forty) only.
12.33	Coloured polished granite slab of size not less than 1200mm x 600mm x 20mm thick in flooring, treads of steps and landings laid over 20mm (average) thick base of cement mortar 1:4 and jointed with white cement slurry including rubbing and polishing complete.		
	(a) General black	sqm	9602.30 (Rupees nine thousand six hundred two and paise thirty) only.
	(b) Galaxy black	sqm	9896.60 (Rupees nine thousand eight hundred ninety six and paise sixty) only.
	(b) General red	sqm	10546.70 (Rupees ten thousand five hundred forty six and paise seventy) only.
	(b) Red	sqm	10397.90 (Rupees ten thousand three hundred ninety seven and paise ninety) only.
12.34	Coloured polished granite slab 20mm thick in skirting, riser of steps, dado, vertical face of pedestal etc. laid on 12mm (average) thick base of cement mortar 1:3 and jointed with white cement slurry including rubbing and polishing complete.		
	(a) General black	sqm	10328.00 (Rupees ten thousand three hundred twenty eight) only.
	(b) Galaxy black	sqm	10622.30

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees ten thousand six hundred twenty two and paise thirty) only.
	(b) General red	sqm	10770.20 (Rupees ten thousand seven hundred seventy and paise twenty) only.
	(b) Red	sqm	11064.50 (Rupees eleven thousand sixty four and paise fifty) only.
<u>BRICK FLOORING</u>			
12.35	Brick flooring with first class bricks in cement mortar 1:4 including cement slurry etc. complete.		
	(a) Bricks laid on edge.	sqm	1618.30 (Rupees one thousand six hundred eighteen and paise thirty) only.
	(b) Bricks laid on flat side.	sqm	1127.30 (Rupees one thousand one hundred twenty seven and paise thirty) only.
12.36	Brick flooring with first class bricks in cement mortar 1:6 including cement slurry etc. complete.		
	(a) Bricks laid on edge.	sqm	1553.80 (Rupees one thousand five hundred fifty three and paise eighty) only.
	(b) Bricks laid on flat side.	sqm	1078.80 (Rupees one thousand seventy eight and paise eighty) only.
12.37	Extra for brick flooring laid in diagonal Herring Bond bond or other patterns.	sqm	32.40 (Rupees thirty two and paise forty) only.
12.38	Brick on edge flooring with First class bricks on a bed of 12mm cement mortar, including filling the joints with same mortar with bricks :		
	(a) 1:4 (1 cement : 4 coarse sand)	sqm	1618.40 (Rupees one thousand six hundred eighteen and paise forty) only.
	(b) 1:6 (1cement : 6 coarse sand)	sqm	1553.90 (Rupees one thousand five hundred fifty three and paise ninety) only.

12. FLOORING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>WOODEN FLOORING</u>			
12.39	25mm thick dressed local wood planked flooring butt joined fixed with iron screws / nails complete excluding cost of base frame.		
	(a) 1st class wood	sqm	1575.60 (Rupees one thousand five hundred seventy five and paise sixty) only.
	(b) 2nd class wood	sqm	1506.30 (Rupees one thousand five hundred six and paise thirty) only.
	(c) Teak wood	sqm	1575.60 (Rupees one thousand five hundred seventy five and paise sixty) only.
12.40	Single layer rua bamboo turja flooring laid over split bamboo (phakrak) spaced 30cm apart over base frame of whole bamboo 50mm average dia. placed 30cm c/c complete including cost of base frame.		
		sqm	358.70 (Rupees three hundred fifty eight and paise seventy) only.
12.41	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.		
		sqm	11396.20 (Rupees eleven thousand three hundred ninety six and paise twenty) only.
12.42	Providing and laying Precast interlocking Paver tiles (CDI pattern) of approved make locally available at Aizawl over a sand cushion and 100mm thick PCC bed of 1:2:4 including supplying, placing and cleaning, etc., complete (Cost of dressing of soil and PCC to be paid separately).		
		sqm	2267.80 (Rupees two thousand two hundred sixty seven and paise eighty) only.
12.43	Providing and fixing laminate flooring of approved quality and make on existing levelled floor complete.		
		sqm	3012.90 (Rupees three thousand twelve and paise ninety) only.

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>BEADING</u>			
13.01	Providing and fixing plain, chamfered edged 1st class local wood beading with screws or nails for walls, ceiling, etc. complete. <i>(Basis : CPWD Analysis of Rates, 2003 Vol-III - 375 & 376)</i>		
	(a) 50mm x 12mm	rm	304.40 (Rupees three hundred four and paise forty) only.
	(b) 50mm x 20mm	rm	229.30 (Rupees two hundred twenty nine and paise thirty) only.
<u>WOOD</u>			
13.02	Providing and fixing 25 mm thick 1st class teak wood plank walling <i>(both sides planed)</i> , tongue and groove joints including necessary nails, screws, etc. complete.	sqm	1360.50 (Rupees one thousand three hundred sixty and paise fifty) only.
13.03	Providing and fixing 25 mm thick 2nd class local wood plank walling <i>(both sides planed)</i> , tongue and groove joints including necessary nails, screws, etc. complete.	sqm	1297.00 (Rupees one thousand two hundred ninety seven) only.
13.04	Providing and fixing 25 mm thick 2nd class local wood plank walling <i>(one side planed)</i> , tongue and groove joints including necessary nails, screws, etc. complete.	sqm	1256.80 (Rupees one thousand two hundred fifty six and paise eighty) only.
13.05	Providing and fixing 25 mm thick 1st class local wood plank walling <i>(both sides planed)</i> , laps joints including necessary nails, screws, etc. complete.	sqm	1520.50 (Rupees one thousand five hundred twenty and paise fifty) only.
13.06	Providing and fixing 25 mm thick 2nd class local wood plank walling <i>(both sides planed)</i> , laps joints including necessary nails, screws, etc. complete.	sqm	1445.00 (Rupees one thousand four hundred forty five) only.
13.07	Providing and fixing 25 mm thick 1st class local wood plank walling <i>(one side planed)</i> , laps joints including necessary nails, screws, etc. complete.	sqm	1480.30

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand four hundred eighty and paise thirty) only.
13.08	Providing and fixing 25 mm thick 2nd class local wood plank walling (<i>one side planed</i>), laps joints including necessary nails, screws, etc. complete.	sqm	1404.80 (Rupees one thousand four hundred four and paise eighty) only.
<u>ASBESTOS CEMENT PLAIN SHEET</u>			
13.09	Providing and fixing asbestos cement plain sheet board fixed with 50mm x 12mm thick dressed beading with 50mm wide plain sheet flashing at the horizontal joints including supply of beading and flashing complete excluding cost of timber frame work using -		
	(a) 4 mm thick A.C. plain sheet	sqm	564.80 (Rupees five hundred sixty four and paise eighty) only.
	(b) 5 mm thick A.C. plain sheet	sqm	586.00 (Rupees five hundred eighty six) only.
	(c) 6 mm thick A.C. plain sheet	sqm	584.80 (Rupees five hundred eighty four and paise eighty) only.
<u>GCI SHEET</u>			
13.10	Providing 0.63mm I.S. thickness CGI sheet walling with galvanised iron screws, bolts and nuts 8mm dia. with bitumen and G.I. limpet washers excluding cost of timber frame work.	sqm	758.30 (Rupees seven hundred fifty eight and paise thirty) only.
<u>GALVANISED WIRE NET</u>			
13.11	Providing and fixing of 23mm to 20mm mesh 1.00mm dia. galvanised wire net walling in 1st. class local wood, chamfered, moulded with 75mm x 25mm including fixing with nails, screws, etc. complete.	sqm	415.20 (Rupees four hundred fifteen and paise twenty) only.
<u>BAMBOO</u>			
13.12	Providing and fixing of bamboo turja walling woven in <i>malkalh</i> pattern in single layer complete excluding beading work.	sqm	194.40

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one hundred ninety four and paise forty) only.
13.13	Providing and fixing of bamboo turja walling woven in <i>bawhtah</i> pattern in single layer complete excluding beading work.	sqm	253.90 (Rupees two hundred fifty three and paise ninety) only.
13.14	Providing and fixing of bamboo turja walling woven in <i>thumbawh</i> pattern in single layer complete excluding beading work.	sqm	292.20 (Rupees two hundred ninety two and paise twenty) only.
13.15	Providing and fixing bamboo mat board power formaldehyde(PF) fixed with 50mm x 12mm thick dressed beading with 50mm wide plain sheet flashing at the horizontal joints including supply of beading and flashing complete excluding cost of timber frame work using -		
	(a) 3 mm thick bamboo mat board	sqm	1229.90 (Rupees one thousand two hundred twenty nine and paise ninety) only.
	(b) 6 mm thick Bamboo mat board	sqm	1326.56 (Rupees one thousand three hundred twenty six and paise fifty six) only.
	(c) 8 mm thick Bamboo mat board	sqm	1485.30 (Rupees one thousand four hundred eighty five and paise thirty) only.
	(d) 12 mm thick Bamboo mat board	sqm	1950.30 (Rupees one thousand nine hundred fifty and paise thirty) only.
13.16	Providing and fixing 4mm thick plywood walling lining with necessary screws complete -		
	(a) With teakply facing of approved manufacture	sqm	1195.10 (Rupees one thousand one hundred ninety five and paise ten) only.
	(b) With commercial ply facing of approved manufacture	sqm	862.30 (Rupees eight hundred sixty two and paise thirty) only.
13.17	Providing and fixing plywood plain lining with necessary screws complete -		

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) With 4mm thick teakply facing of approved manufacture	sqm	1178.50 (Rupees one thousand one hundred seventy eight and paise fifty) only.
	(b) With commercial ply 4mm thick facing of approved manufacture	sqm	838.60 (Rupees eight hundred thirty eight and paise sixty) only.
13.18	Providing and fixing 12mm thick plywood plain ply board walling with necessary screws etc. complete.	sqm	867.40 (Rupees eight hundred sixty seven and paise forty) only.
13.19	Providing and fixing 19mm thick plywood plain ply board walling with necessary screws etc. complete.	sqm	1090.80 (Rupees one thousand ninety and paise eighty) only.
<u>MDF BOARD</u>			
13.20	Providing and fixing MDF board walling with necessary screws etc. complete.		
	(a) With 12mm thick MDF Board	sqm	1286.90 (Rupees one thousand two hundred eighty six and paise ninety) only.
	(b) With 17mm thick MDF Board	sqm	1528.50 (Rupees one thousand five hundred twenty eight and paise fifty) only.
<u>WOOD PLASTIC COMPOSITE (ALSTONE) BOARD</u>			
13.21	Providing and fixing Wood Plastic Composite board walling with necessary screws etc. complete.		
	(a) With 12mm thick WPC Board	sqm	2084.20 (Rupees two thousand eighty four and paise twenty) only.
	(b) With 17mm thick WPC Board	sqm	2809.00 (Rupees two thousand eight hundred nine) only.

Others

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
13.22	Supplying, fitting and fixing 19mm thick block board particle board walling with necessary screws etc. complete.	sqm	1193.40 (Rupees one thousand one hundred ninety three and paise forty) only.
13.23	Providing and fitting bamboo particle board internal walling with necessary screws or nails etc. complete.	sqm	1441.40 (Rupees one thousand four hundred forty one and paise forty) only.
13.24	Supplying, fitting and fixing glass block board walling excluding frame work of base.	sqm	3000.30 (Rupees three thousand and paise thirty) only.
13.25	Providing and fixing 1st class local wood frame works for wall lining consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.	cum	77718.10 (Rupees seventy seven thousand seven hundred eighteen and paise ten) only.
13.26	Supplying and laying of permanent wall finish for interior and exterior walls with surface coating with bonding agent for all types of buildings at all levels as specified and directed by the Engineer-in-charge.		
	(a) Granule finish	sqm	1045.70 (Rupees one thousand forty five and paise seventy) only.
	(b) Stone finish	sqm	1352.40 (Rupees one thousand three hundred fifty two and paise forty) only.
	(c) Granite finish	sqm	1602.10 (Rupees one thousand six hundred two and paise ten) only.
13.27	Providing and fixing Glass bricks walling 200x200x85mm with white cement in walls including curing etc complete .	sqm	20092.50 (Rupees twenty thousand ninety two and paise fifty) only.

13. WALLING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
13.28	Providing and fixing exterior wall cladding tiles 8mm thick of required shade in external walls on 15mm thick cement plaster 1 : 3, jointed with neat cement cement slurry including pointing in white cement mixed with pigment of matching shade complete.	sqm	5391.00 (Rupees five thousand three hundred ninety one) only.
13.29	Providing & fixing External wall cladding with decorative high pressure laminated sheet of approved quality and make (Greenlam or equivalent) to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).		
	(a) 6 mm thick	sqm	7076.00 (Rupees seven thousand seventy six) only.
	(b) 8 mm thick	sqm	9056.10 (Rupees nine thousand fifty six and paise ten) only.
	(c) 10 mm thick	sqm	10816.60 (Rupees ten thousand eight hundred sixteen and paise sixty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
14.01	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm dia. bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x 10 x 15cm 1:3:6 mix (1 cement : 3 sand : 6 well graded stone aggregate 20 mm nominal size)	no	175.50 (Rupees one hundred seventy five and paise fifty) only.
14.02	Providing and fixing M.S. pressed butt hinges bright finished with necessary screws, etc. complete.		
	(a) 200 x 65 x 2.12 mm (Medium type)	no	129.50 (Rupees one hundred twenty nine and paise fifty) only.
	(b) 150 x 65 x 2.12 mm (Medium type)	no	102.30 (Rupees one hundred two and paise thirty) only.
	(c) 125 x 65 x 2.12 mm (Medium type)	no	90.57 (Rupees ninety and paise fifty seven) only.
	(d) 100 x 58 x 1.90 mm (Medium type)	no	72.50 (Rupees seventy two and paise fifty) only.
14.03	Providing and fixing M.S. pressed parliamentary hinges bright finished with necessary screws, etc. complete.		
	(a) 125 x 125 x 27 x 2.8mm	no	128.20 (Rupees one hundred twenty eight and paise twenty) only.
	(b) 100 x 125 x 27 x 2.8mm	no	101.10 (Rupees one hundred one and paise ten) only.
14.04	Providing and fixing M.S. double acting Spring hinges bright finished with necessary screws, etc. complete.		
	(i) 150mm	no	404.50 (Rupees four hundred four and paise fifty) only.
	(ii) 125mm	no	376.30 (Rupees three hundred seventy six and paise thirty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(iii) 100mm	no	341.10 (Rupees three hundred forty one and paise ten) only.
14.05	Providing and fixing M.S. Continuous/ Piano hinges bright finished with necessary screws, etc. complete.		
	(a) 35mm	rm	231.96 (Rupees two hundred thirty one and paise ninety six) only.
14.06	Providing and fixing M.S. sliding door bolts (aldrops) bright finished and/ or black enamelled with nuts and screws etc.		
	(a) 300 x 16 mm	no	293.20 (Rupees two hundred ninety three and paise twenty) only.
	(b) 250 x 16 mm	no	173.70 (Rupees one hundred seventy three and paise seventy) only.
14.07	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.		
	(a) 300 mm	no	131.30 (Rupees one hundred thirty one and paise thirty) only.
	(b) 250 mm	no	113.30 (Rupees one hundred thirteen and paise thirty) only.
	(c) 200 mm	no	95.20 (Rupees ninety five and paise twenty) only.
	(d) 150 mm	no	76.10 (Rupees seventy six and paise ten) only.
	(e) 100 mm	no	58.00 (Rupees fifty eight) only.
14.08	Providing and fixing M.S. pull bolts lock conforming with IS : 7534 bright finished with necessary screws etc. complete.	no	38.80 (Rupees thirty eight and paise eighty) only.
14.09	Providing and fixing M.S. door latch bright finished with necessary screws etc. complete.		

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 300 x 20 x 6 mm	no	104.10 (Rupees one hundred four and paise ten) only.
	(b) 250 x 20 x 6 mm	no	97.10 (Rupees ninety seven and paise ten) only.
14.10	Providing and fixing M.S. handles with necessary screws, etc. complete		
	(a) 150 mm	no	43.90 (Rupees forty three and paise ninety) only.
	(b) 125 mm	no	38.00 (Rupees thirty eight) only.
14.11	Providing and fixing bright finished M.S two lever mortise door lock with necessary screws, etc. complete.		
	(a) Union type.	no	784.60 (Rupees seven hundred eighty four and paise sixty) only.
	(b) Knob type.	no	843.30 (Rupees eight hundred forty three and paise thirty) only.
14.12	Providing and fixing MS hook & eyes bright finished with necessary screws etc. complete.		
	(a) 200 mm	no	42.60 (Rupees forty two and paise sixty) only.
	(b) 150 mm	no	25.00 (Rupees twenty five) only.
	(c) 100 mm	no	25.50 (Rupees twenty five and paise fifty) only.

OXIDISED FITTINGS :

14.13 Providing and fixing M.S. Oxidised pressed butt hinges bright finished with necessary screws, etc. complete.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 125 x 65 x 2.12 mm	no	120.40 (Rupees one hundred twenty and paise forty) only.
	(b) 100 x 58 x 1.90 mm	no	93.20 (Rupees ninety three and paise twenty) only.
14.14	Providing and fixing M.S.Oxidised pressed parliamentary hinges bright finished with necessary screws, etc. complete.		
	(a) 150 x 125 x 27 x 2.8mm	no	185.80 (Rupees one hundred eighty five and paise eighty) only.
	(b) 125 x 125 x 27 x 2.8mm	no	167.70 (Rupees one hundred sixty seven and paise seventy) only.
	(c) 100 x 125 x 27 x 2.8mm	no	131.90 (Rupees one hundred thirty one and paise ninety) only.
14.15	Providing and fixing M.S. Oxidised single acting/ double acting Spring hinges bright finished with necessary screws, etc.		
	(a) Single acting		
	(i) 150 mm	no	212.40 (Rupees two hundred twelve and paise forty) only.
	(ii) 125 mm	no	173.40 (Rupees one hundred seventy three and paise forty) only.
	(iii) 100 mm	no	139.97 (Rupees one hundred thirty nine and paise ninety seven) only.
	(b) Double acting		
	(i) 150mm	no	248.58 (Rupees two hundred forty eight and paise fifty eight) only.
	(ii) 125mm	no	176.20 (Rupees one hundred seventy six and paise twenty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(iii) 100 mm	no	158.10 (Rupees one hundred fifty eight and paise ten) only.
14.16	Providing and fixing M.S. Oxidised continuous/ Piano hinges bright finished with necessary screws, etc. complete.		
	(a) 65mm	no	57.10 (Rupees fifty seven and paise ten) only.
	(b) 50mm	no	48.00 (Rupees forty eight) only.
	(c) 35 mm	no	39.00 (Rupees thirty nine) only.
14.17	Providing and fixing M.S. Oxidised sliding door bolts (aldrops) bright finished and/or black enamelled with nuts and screws etc. complete.		
	(a) 300 x 16 mm	no	394.60 (Rupees three hundred ninety four and paise sixty) only.
	(b) 250 x 16 mm	no	246.80 (Rupees two hundred forty six and paise eighty) only.
14.18	Providing and fixing M.S. Oxidised tower bolts (socket bolts) bright finished with necessary screws etc. complete.		
	(a) 300 mm	no	183.20 (Rupees one hundred eighty three and paise twenty) only.
	(b) 250 mm	no	159.70 (Rupees one hundred fifty nine and paise seventy) only.
	(c) 200 mm	no	132.50 (Rupees one hundred thirty two and paise fifty) only.
	(d) 150 mm	no	122.30 (Rupees one hundred twenty two and paise thirty) only.
	(e) 100 mm	no	104.20 (Rupees one hundred four and paise twenty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
14.19	Providing and fixing M.S. Oxidised pull bolts lock conforming with IS :7534 bright finished with necessary screws etc. complete.	no	59.80 (Rupees fifty nine and paise eighty) only.
14.20	Providing and fixing M.S. Oxidised door latch bright finished with necessary screws etc. complete.		
	(a) 300 x 20 x 6 mm	no	151.80 (Rupees one hundred fifty one and paise eighty) only.
	(b) 250 x 20 x 6 mm	no	119.60 (Rupees one hundred nineteen and paise sixty) only.
14.21	Providing and fixing M.S. Oxidised handles with necessary screws, etc. complete		
	(a) 150 mm	no	88.00 (Rupees eighty eight) only.
	(b) 125 mm	no	73.90 (Rupees seventy three and paise ninety) only.
14.22	Providing and fixing bright finished M.S Oxidised two lever mortise door lock with necessary screws, etc. complete.		
	(a) Union type.	no	737.30 (Rupees seven hundred thirty seven and paise thirty) only.
	(b) Knob type.	no	1018.90 (Rupees one thousand eighteen and paise ninety) only.
14.23	Providing and fixing MS Oxidised hasp & staple bright finished with necessary screws etc. complete.		
	(a) 150 mm	no	49.90 (Rupees forty nine and paise ninety) only.
	(b) 115 mm	no	40.80 (Rupees forty and paise eighty) only.
	(c) 90 mm	no	31.80 (Rupees thirty one and paise eighty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
14.24	Providing and fixing MS Oxidised Door Knock with necessary screw etc. complete (best make of approved quality)	no	85.20 (Rupees eighty five and paise twenty) only.
	BRASS FITTINGS :		
14.25	Providing and fixing brass butt hinges Heavy / Ordinary type bright finished with necessary screws, etc. complete.		
	(i) Heavy		
	(a) 200 x 85 x 5.5 mm	no	369.00 (Rupees three hundred sixty nine) only.
	(b) 150 x 85 x 5.5 mm	no	326.80 (Rupees three hundred twenty six and paise eighty) only.
	(c) 125 x 85 x 5.5 mm	no	298.60 (Rupees two hundred ninety eight and paise sixty) only.
	(d) 100 x 85 x 5.5 mm	no	270.47 (Rupees two hundred seventy and paise forty seven) only.
	(ii) Ordinary		
	(a) 125 x 70 x 4 mm	no	256.40 (Rupees two hundred fifty six and paise forty) only.
	(b) 100 x 70 x 4 mm	no	216.20 (Rupees two hundred sixteen and paise twenty) only.
14.26	Providing and fixing brass parliamentary hinges bright finished with necessary screws, etc. complete.		
	(a) 150 x 125 x 27 x 5mm	no	581.80 (Rupees five hundred eighty one and paise eighty) only.
	(b) 125 x 125 x 27 x 5 mm	no	511.40 (Rupees five hundred eleven and paise forty) only.
	(c) 100 x 125 x 27 x 5mm	no	380.70 (Rupees three hundred eighty and paise seventy) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
14.27	Providing and fixing brass single acting/ double acting Spring hinges bright finished with necessary screws, etc. complete.		
	(a) Single acting		
	(i) 150 mm	no	538.20 (Rupees five hundred thirty eight and paise twenty) only.
	(ii) 125mm	no	411.50 (Rupees four hundred eleven and paise fifty) only.
	(iii) 100 mm	no	368.00 (Rupees three hundred sixty eight) only.
	(b) Double acting		
	(i) 150mm	no	483.90 (Rupees four hundred eighty three and paise ninety) only.
	(ii) 125mm	no	429.60 (Rupees four hundred twenty nine and paise sixty) only.
	(iii) 100 mm	no	348.10 (Rupees three hundred forty eight and paise ten) only.
14.28	Providing and fixing brass sliding door bolts (aldrops) bright finished with nuts and screws etc. complete.		
	(a) 300 x 16 mm	no	1213.70 (Rupees one thousand two hundred thirteen and paise seventy) only.
	(b) 250 x 16 mm	no	1123.20 (Rupees one thousand one hundred twenty three and paise twenty) only.
14.29	Providing and fixing Brass Tower Bolts (Socket Bolts) bright finished with necessary screws etc. complete.		
	(a) 300 mm	no	403.50 (Rupees four hundred three and paise fifty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) 250 mm	no	375.30 (Rupees three hundred seventy five and paise thirty) only.
	(c) 200 mm	no	304.90 (Rupees three hundred four and paise ninety) only.
	(d) 150 mm	no	234.50 (Rupees two hundred thirty four and paise fifty) only.
	(e) 100 mm	no	178.20 (Rupees one hundred seventy eight and paise twenty) only.
14.30	Providing and fixing brass pull bolts lock conforming with IS : 7534 bright finished with necessary screws etc. complete.	no	183.50 (Rupees one hundred eighty three and paise fifty) only.
14.31	Providing and fixing brass door latch bright finished with necessary screws etc. complete.		
	(a) 300 x 20 x 6 mm	no	604.30 (Rupees six hundred four and paise thirty) only.
	(b) 250 x 20 x 6 mm	no	513.80 (Rupees five hundred thirteen and paise eighty) only.
14.32	Providing and fixing brass handles with necessary screws, etc. complete		
	(a) 150 mm	no	287.10 (Rupees two hundred eighty seven and paise ten) only.
	(b) 125 mm	no	273.10 (Rupees two hundred seventy three and paise ten) only.
14.33	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.		
	(a) Union type.	no	1726.80 (Rupees one thousand seven hundred twenty six and paise eighty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Knob type	no	2541.40 (Rupees two thousand five hundred forty one and paise forty) only.
14.34	Providing and fixing brass hasp & staple bright finished with necessary screws etc. complete.		
	(a) 150 mm	no	396.60 (Rupees three hundred ninety six and paise sixty) only.
	(b) 115 mm	no	351.40 (Rupees three hundred fifty one and paise forty) only.
	(c) 90 mm	no	315.20 (Rupees three hundred fifteen and paise twenty) only.
14.35	Providing and fixing brass Door Knock with necessary screw etc. complete (best make of approved quality) .	no	11.20 (Rupees eleven and paise twenty) only.
14.36	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	no	284.30 (Rupees two hundred eighty four and paise thirty) only.
14.37	Providing and fixing 150 mm bright finished brass floor door stopper with rubber cushion, screws, etc. to suite shutter thickness complete.	no	364.00 (Rupees three hundred sixty four) only.
14.38	Providing and fixing bright finished Brass Door Closer with necessary screws, etc. complete.		
	(a) Hydraulic Type	no	1475.70 (Rupees one thousand four hundred seventy five and paise seventy) only.
14.39	Providing and fixing bright finished brass night latch including necessary screw etc. complete (best make of approved quality).		
	(a) 200 mm	no	233.00 (Rupees two hundred thirty three) only.
14.40	Providing and fixing special quality bright finished brass cupboard or wardrobe lock with four levers including necessary screw etc.		

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	complete (best make of approved quality)		
	(a) 40 mm	no	293.60 (Rupees two hundred ninety three and paise sixty) only.
14.41	Providing and fixing bright finished brass cupboard or wardrobe knob with necessary screw etc. complete (best make of approved quality) .	no	161.80 (Rupees one hundred sixty one and paise eighty) only.
14.42	Providing and fixing 30cm long bright finished finger plates 65 x 1.6 mm with necessary screw etc. complete .	no	196.70 (Rupees one hundred ninety six and paise seventy) only.
14.43	Providing and fixing 50cm long bright finished kicking plate 100 x 3.15 mm with necessary screw etc. complete .	no	340.10 (Rupees three hundred forty and paise ten) only.
	C.P. BRASS FITTINGS :		
14.44	Providing and fixing CP brass butt hinges bright finished with necessary screws, etc. complete.		
	(i) <u>Heavy Type</u>		
	(a) 125 x 85 x 5.5 mm	no	298.60 (Rupees two hundred ninety eight and paise sixty) only.
	(b) 100 x 85 x 5.5 mm	no	256.40 (Rupees two hundred fifty six and paise forty) only.
	(ii) <u>Ordinary Type</u>		
	(a) 125 x 70 x 4 mm	no	228.20 (Rupees two hundred twenty eight and paise twenty) only.
	(b) 100 x 70 x 4 mm	no	186.00 (Rupees one hundred eighty six) only.
14.45	Providing and fixing CP brass parliamentary hinges bright finished with necessary screws, etc. complete.		

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 150 x 125 x 27 x 5mm	no	652.18 (Rupees six hundred fifty two and paise eighteen) only.
	(b) 125 x 125 x 27 x 5mm	no	511.40 (Rupees five hundred eleven and paise forty) only.
	(c) 100 x 125 x 27 x 5mm	no	344.50 (Rupees three hundred forty four and paise fifty) only.
14.46	Providing and fixing CP Brass Sliding Door Bolts (aldrops) bright finished with nuts and screws etc. complete.		
	(a) 300 x 16 mm	no	1233.80 (Rupees one thousand two hundred thirty three and paise eighty) only.
	(b) 250 x 16 mm	no	811.40 (Rupees eight hundred eleven and paise forty) only.
14.47	Providing and fixing CP brass tower bolts (socket bolts) bright finished with necessary screws etc. complete.		
	(a) 250 mm	no	516.10 (Rupees five hundred sixteen and paise ten) only.
	(b) 200 mm	no	410.50 (Rupees four hundred ten and paise fifty) only.
	(c) 150 mm	no	312.00 (Rupees three hundred twelve) only.
	(d) 100 mm	no	226.50 (Rupees two hundred twenty six and paise fifty) only.
14.48	Providing and fixing CP brass handles with necessary screws, etc. complete		
	(a) 250 mm	no	1001.10 (Rupees one thousand one and paise ten) only.
	(b) 200 mm	no	850.20 (Rupees eight hundred fifty and paise twenty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 150 mm	no	526.40 (Rupees five hundred twenty six and paise forty) only.
	(d) 125 mm	no	456.10 (Rupees four hundred fifty six and paise ten) only.
14.49	Providing and fixing bright finished CP brass two lever mortise door lock with necessary screws, etc. complete.		
	(a) Union type.	no	1686.50 (Rupees one thousand six hundred eighty six and paise fifty) only.
	(b) Knob type.	no	1451.90 (Rupees one thousand four hundred fifty one and paise ninety) only.
<u>ALLUMINIUM FITTINGS :</u>			
14.50	Providing and fixing alluminium sliding door bolts (aldrops) anodised transparent or dyed to required colour or shade with nuts and screws etc. complete.		
	(a) 300 x 16 mm	no	457.10 (Rupees four hundred fifty seven and paise ten) only.
	(b) 250 x 16 mm	no	398.40 (Rupees three hundred ninety eight and paise forty) only.
14.51	Providing and fixing Aluminium Tower Bolts (Socket B olts) anodised transparent or dyed to required colour or shade with necessary screws etc. complete.		
	(a) 250 mm	no	166.50 (Rupees one hundred sixty six and paise fifty) only.
	(b) 200 mm	no	117.20 (Rupees one hundred seventeen and paise twenty) only.
	(c) 150 mm	no	75.30 (Rupees seventy five and paise thirty) only.

14. DOORS AND WINDOWS FITTINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(d) 100 mm	no	54.40 (Rupees fifty four and paise forty) only.
14.52	Providing and fixing alluminium handles anodised transparent or dyed to required colour or shade with necessary screws, etc. complete		
	(a) 125 mm	no	47.80 (Rupees forty seven and paise eighty) only.
14.53	Providing and fixing Curtain Rod with necessary screws & fittings, etc. complete.		
	(a) Bright finished	rm	442.10 (Rupees four hundred forty two and paise ten) only.
	(b) Plastic type	rm	125.17 (Rupees one hundred twenty five and paise seventeen) only.
14.54	Providing and fixing Curtain Rope hook with necessary screws , etc. complete.		
	(a) Brass	no	96.60 (Rupees ninety six and paise sixty) only.
	(b) M.S. Oxidised.	no	75.73 (Rupees seventy five and paise seventy three) only.
	(c) Plastic	no	39.90 (Rupees thirty nine and paise ninety) only.
14.55	Providing and fixing Imex window fittings including necessary screws complete. Friction hinges for aluminium windows etc.	no	238.10 (Rupees two hundred thirty eight and paise ten) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>BEADING</u>			
15.01	Providing and fixing plain, chamfered edged 1st class local wood beading with screws or nails for walls, ceiling, etc. complete.		
	(a) 50mm x 12mm	rm	304.40 (Rupees three hundred four and paise forty) only.
	(b) 50mm x 20mm	rm	229.30 (Rupees two hundred twenty nine and paise thirty) only.
<u>WOOD</u>			
15.02	Providing and fixing 20mm thick 1st class local wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	1055.20 (Rupees one thousand fifty five and paise twenty) only.
15.03	Providing and fixing 20mm thick 2nd class local wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	1005.20 (Rupees one thousand five and paise twenty) only.
15.04	Providing and fixing 20mm thick teak wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	1005.20 (Rupees one thousand five and paise twenty) only.
15.05	60cm x 60cm raised box pattern ceiling ventilator with dressed planks top cover 13mm x 15mm galvanised wire netting inside in 1st class local wood frame and hinges.	no	1691.80 (Rupees one thousand six hundred ninety one and paise eighty) only.
<u>ASBESTOS CEMENT SHEET</u>			
15.06	Supplying, fitting and fixing 4mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and beading.	sqm	493.40 (Rupees four hundred ninety three and paise forty) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>BAMBOO</u>			
15.07	Providing and fixing of bamboo turja ceiling woven in <i>malkalh</i> pattern in single layer including fixing with nescessary nails complete excluding frame work of base and beading.	sqm	213.80 (Rupees two hundred thirteen and paise eighty) only.
15.08	Providing and fixing of bamboo turja ceiling woven in <i>bawhtah</i> pattern in single layer including fixing with nescessary nails complete excluding frame work of base and beading.	sqm	279.30 (Rupees two hundred seventy nine and paise thirty) only.
15.09	Providing and fixing of bamboo turja ceiling woven in <i>thumbawh</i> pattern in single layer including fixing with nescessary nails complete excluding frame work of base and beading.	sqm	321.50 (Rupees three hundred twenty one and paise fifty) only.
15.10	Supplying, fitting and fixing 6mm thick decorated bamboo particle board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	sqm	1952.00 (Rupees one thousand nine hundred fifty two) only.
15.11	Supplying, fitting and fixing 8mm thick decorated bamboo particle board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	sqm	2269.20 (Rupees two thousand two hundred sixty nine and paise twenty) only.
15.12	Supplying, fitting and fixing 3mm thick bamboo mat board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	sqm	1533.50 (Rupees one thousand five hundred thirty three and paise fifty) only.
15.13	Supplying, fitting and fixing 6mm thick bamboo mat board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	sqm	1657.20 (Rupees one thousand six hundred fifty seven and paise twenty) only.
<u>ACOUSTICAL BOARD</u>			
15.14	Providing and fixing perforated acoustical panel (Ceiling & Wall) of approved quality including fixing to frames with screws etc. complete. (Installation in wood batten system or steel keel system Frame work to be paid separately).		

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
		sqm	6402.30 (Rupees seven hundred seventy seven and paise thirty) only.
<u>PARTICLE BOARD, WOOD PLASTIC COMPOSITE (ALSTONE)</u>			
15.15	Providing and fixing in ceiling flat pressed 3 layer particle board (medium density) 12mm thick conforming to IS : 3087 with necessary nails etc. complete (frame work of base to be paid separately).	sqm	750.30 (Rupees seven hundred fifty and paise thirty) only.
15.16	Providing and fixing in Wood Plactic composite (Alstone or equivalent) conforming to IS : 3087 with necessary nails etc. complete (frame work of base to be paid separately).		
	(a) WPC (alstone) 12mm thick	sqm	2051.50 (Rupees two thousand fifty one and paise fifty) only.
	(a) WPC (alstone) 6 mm thick	sqm	1311.00 (Rupees one thousand three hundred eleven) only.
15.17	Providing and fixing recessed ceiling with 12.5mm tapered Gypboard which includes providing and fixing G.I perimeter funnels with nylon sleeves and screws intermediate channels fixed to GI seat and steel expansion fastener etc. all complete including rounding, filling and finishing the tapered and square of the board with jointing compound and two coats of primer suitable to Gypboard.	sqm	2383.30 (Rupees two thousand three hundred eighty three and paise thirty) only.
15.18	Supplying, fitting and fixing aluminium composite panel board ceiling with nescessary screws etc. complete excluding frame work of base and beading.	sqm	2468.00 (Rupees two thousand four hundred sixty eight) only.
15.19	Supplying, fitting and fixing calcium silicate board ceiling with nescessary screws etc. complete excluding frame work of base and beading. (Hilux or equivalent)	sqm	2718.10 (Rupees two thousand seven hundred eighteen and paise ten) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>FRAMEWORK</u>			
15.20	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.	cum	107386.60 (Rupees one lakh seven thousand three hundred eighty six and paise sixty) only.
15.21	Providing and fixing 2nd class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.	cum	101144.60 (Rupees one lakh one thousand one hundred forty four and paise sixty) only.
15.22	Providing and fixing G.I steel frame works for ceiling lining consisting of battens 50x25mm fixed over plugs embedded in wall with necessary screws, etc. complete.	sqm	1471.70 (Rupees one thousand four hundred seventy one and paise seventy) only.
15.23	Providing and fixing aluminium frame works for ceiling lining consisting of battens 50x25mm fixed over plugs embedded in wall with necessary nails or screws, etc. complete.	sqm	1307.80 (Rupees one thousand three hundred seven and paise eighty) only.
15.24	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :		
	(a) Natural colour insulating board		
	(i) 12 mm thick	sqm	745.60 (Rupees seven hundred forty five and paise sixty) only.
	(ii) 18 mm thick	sqm	825.10 (Rupees eight hundred twenty five and paise ten) only.
	(b) White face insulating board		
	(i) 12 mm thick	sqm	778.50 (Rupees seven hundred seventy eight and paise fifty) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(ii) 18 mm thick	sqm	982.20 (Rupees nine hundred eighty two and paise twenty) only.
	© Flame retardant face insulating board		
	(i) 12 mm thick	sqm	722.30 (Rupees seven hundred twenty two and paise thirty) only.
	(ii) 18 mm thick	sqm	900.40 (Rupees nine hundred and paise forty) only.
15.25	Extra for Circular cutting and waste in ceiling with:		
	(a) Teak wood planks 20 mm thick	rm	353.70 (Rupees three hundred fifty three and paise seventy) only.
	(b) Natural colour insulating board		
	(i) 12 mm thick	rm	362.50 (Rupees three hundred sixty two and paise fifty) only.
	(i) 18 mm thick	rm	381.40 (Rupees three hundred eighty one and paise forty) only.
	(c) White face insulating board:		
	(i) 12 mm thick	rm	375.70 (Rupees three hundred seventy five and paise seventy) only.
	(ii) 18 mm thick	rm	347.00 (Rupees three hundred forty seven) only.
	(d) Flame retardant face insulating board:		
	(i) 12 mm thick	rm	314.70 (Rupees three hundred fourteen and paise seventy) only.
	(ii) 18 mm thick	rm	336.80 (Rupees three hundred thirty six and paise eighty) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.26	Extra for providing and fixing ceiling to curved surfaces in narrow widths .	sqm	232.30 (Rupees two hundred thirty two and paise thirty) only.
15.27	Providing and fixing false ceiling with 12 mm thick plain/or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087 finished with a coat of aluminium primer on both sides & edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium(with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners and cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x 1200 mm centre to centre including fixing to the frame with C.P brace screws and applying a priming coat of zinc chromate yellow primer :	sqm	515.30 (Rupees five hundred fifteen and paise thirty) only.
15.28	Extra for using 12mm thick semi perforated ceiling tiles instead of 12mm thick plain ceiling tiles in item above.	sqm	43.00 (Rupees forty three) only.
15.29	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling upto a height of 5 m above floor level over first class focal wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :		
	(a) Flat surfaces	sqm	2300.40 (Rupees two thousand three hundred and paise forty) only.
	(b) Curved surfaces	sqm	2238.90 (Rupees two thousand two hundred thirty eight and paise ninety) only.
15.30	Extra for any sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling :	sqm	878.70 (Rupees eight hundred seventy eight and paise seventy) only.

15. CEILING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.31	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level .	sqm	160.30 (Rupees one hundred sixty and paise thirty) only.
15.32	Providing and fixing 12 mm thick plaster of Paris (gypsum anhydrous) ceiling tiles upto a height of 5 mtrs above floor level over wooden frames and rendered smooth with plaster of Paris (frame work to be paid separately)	sqm	1073.90 (Rupees one thousand seventy three and paise ninety) only.
15.33	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183 (Twiga Insul 1000/ 50mm or equivalent) density 24kg/m ³ , 50mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24g wire and mesh, for top most ceiling of building.	sqm	604.90 (Rupees six hundred four and paise ninety) only.
15.34	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS : 8183 (Twiga Insul 1000/ 50mm or equivalent). Density 16kg/m ³ , 50mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	sqm	277.60 (Rupees two hundred seventy seven and paise sixty) only.
15.35	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge :		
	(a) With Type N - Normal 50 mm thick	sqm	251.50 (Rupees two hundred fifty one and paise fifty) only.
	(b) With Type SE - Self Extinguishing type 50mm thick	sqm	294.90 (Rupees two hundred ninety four and paise ninety) only.
15.36	Supplying, fitting and fixing PVC board ceiling with ncessary screws etc. complete excluding frame work of base and beading.	sqm	639.90 (Rupees six hundred thirty nine and paise ninety) only.

16. ROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
16.01	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.		
	(a) 0.80 mm thick with zinc coating not less than 275gm/m ²	sqm	640.20 (Rupees six hundred forty and paise twenty) only.
	(b) 0.63 mm thick with zinc coating not less than 275gm/m ²	sqm	547.90 (Rupees five hundred forty seven and paise ninety) only.
16.02	Extra for providing and fixing corrugated G.S. sheets vertically or to a pitch exceeding 60 degrees .	sqm	11.00 (Rupees eleven) only.
16.03	Extra for providing and fixing curved C.G.S. sheets in roofing		
	(a) 0.80 mm thick	sqm	14.00 (Rupees fourteen) only.
	(b) 0.63 mm thick	sqm	11.40 (Rupees eleven and paise forty) only.
16.04	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc. :		
	(a) 0.80 mm thick	rm	55.80 (Rupees fifty five and paise eighty) only.
	(b) 0.63 mm thick	rm	46.50 (Rupees forty six and paise fifty) only.
16.05	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter :		
	(a) 0.80 mm thick	rm	286.50 (Rupees two hundred eighty six and paise fifty) only.
	(b) 0.63 mm thick	rm	286.50 (Rupees two hundred eighty six and paise fifty) only.

16. ROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
16.06	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 8 mm dia. G.I. limpet and bitumen washers complete.		
	(a) 0.80 mm thick with zinc coating not less than 275gm/m ²	rm	579.70 (Rupees five hundred seventy nine and paise seventy) only.
	(b) 0.63 mm thick with zinc coating not	rm	530.10 (Rupees five hundred thirty and paise ten) only.
16.07	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.		
	(a) 0.80 mm thick with zinc coating not less than 275gm/m ²	rm	597.50 (Rupees five hundred ninety seven and paise fifty) only.
	(b) 0.63 mm thick with zinc coating not less than 275gm/m ²	rm	556.20 (Rupees five hundred fifty six and paise twenty) only.
16.08	Providing flat iron bracket 40mm x 3mm with bolts and nuts for holding G.I. sheet and A.C gutters.	no	150.40 (Rupees one hundred fifty and paise forty) only.
16.09	Providing and fixing wind ties section 40mm x 6mm flat iron section.	rm	223.40 (Rupees two hundred twenty three and paise forty) only.
16.10	Providing and fixing 0.63 mm I.S. thick galvanised plain sheet ventilating louver with 15 cm slats in first class local wood frame of size 10cm x 8cm and 13mm mesh galvanised wire netting inside.	sqm	1276.80 (Rupees one thousand two hundred seventy six and paise eighty) only.

PRE-COATED ROOF

16.11	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling , self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.		
	(i) For 0.40 mm thick :	sqm	1291.60

16. ROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand two hundred ninety one and paise sixty) only.
	(ii) For 0.50 mm thick :	sqm	1464.50 (Rupees one thousand four hundred sixty four and paise fifty) only.
16.12	Providing and fixing of Polyester Coated Galvanised Steel Sheets of any colour ridges, gutters or valleys 50cm overall width 0.50mm thick with 150 mm overlapping fixed with Self Drilling & Tapping Screws with EPDM washer but excluding the cost of base		
	(i) For 0.40 mm thick :	sqm	628.60 (Rupees six hundred twenty eight and paise sixty) only.
	(ii) For 0.50 mm thick :	sqm	697.20 (Rupees six hundred ninety seven and paise twenty) only.
16.13	Providing and fixing 1.05mx3.05m Transparent Polycarbonate of 2mm thick sheet roofing with galvanised roof screws with bitumen and G.I limpet washers filled with white lead complete, excluding cost of purlin, rafter and trusses.	sqm	5185.70 (Rupees five thousand one hundred eighty five and paise seventy) only.
16.14	Providing and fixing 0.90mx3.65m Translucent Fibre 2mm thick sheet roofing with galvanised roof screws with bitumen and G.I limpet washers filled with white lead complete, excluding cost of purlin, rafter and trusses.	sqm	483.60 (Rupees four hundred eighty three and paise sixty) only.
	<u>PRESSED CLAY</u>		
16.15	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	sqm	431.00 (Rupees four hundred thirty one) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>INDIAN WATER CLOSET</u>			
17.01	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm uPVC P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:		
	(a) Orrisa pan with integral type foot rests		
	(i) White	no	7097.30 (Rupees seven thousand ninety seven and paise thirty) only.
	(ii) Pastel	no	8444.60 (Rupees eight thousand four hundred forty four and paise sixty) only.
	(iii) Special colour	no	10384.30 (Rupees ten thousand three hundred eighty four and paise thirty) only.
	(b) Asian pan with integral type foot rests		
	(i) White	no	8119.40 (Rupees eight thousand one hundred nineteen and paise forty) only.
	(ii) Pastel	no	10035.90 (Rupees ten thousand thirty five and paise ninety) only.
	(iii) Special colour	no	12997.70 (Rupees twelve thousand nine hundred ninety seven and paise seventy) only.
17.02	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm uPVC P or S trap, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: (Without Cistern)		
	(a) Orissa pattern pan with integral type foot rests		
	(i) White	no	5238.90 (Rupees five thousand two hundred thirty eight and paise ninety) only.
	(ii) Pastel	no	6307.40

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees six thousand three hundred seven and paise forty) only.
	(iii) Special colour	no	8247.10 (Rupees eight thousand two hundred forty seven and paise ten) only.
	(b) Asian pan with integral type foot rests		
	(i) White	no	6261.00 (Rupees six thousand two hundred sixty one) only.
	(ii) Pastel	no	7898.70 (Rupees seven thousand eight hundred ninety eight and paise seventy) only.
	(iii) Special colour	no	10860.50 (Rupees ten thousand eight hundred sixty and paise fifty) only.

CISTERN

17.03 Providing and fixing low level P.V.C. flushing cistern of Parryware/Hindware/Cera and equivalent make with fittings complete.

(i) 10 litres-white	no	2097.90 (Rupees two thousand ninety seven and paise ninety) only.
(ii) 10 litres-Pastel	no	2376.60 (Rupees two thousand three hundred seventy six and paise sixty) only.

EUROPEAN WATER CLOSET SETS :

17.04 Providing and fixing 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, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :

(i) White	no	18429.20 (Rupees eighteen thousand four hundred twenty nine and paise twenty) only.
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17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(ii) Pastel	no	25955.70 (Rupees twenty five thousand nine hundred fifty five and paise seventy) only.
17.05	Providing and fixing vitreous china water closet (EWC Extd. Wall Mtg. Constellation) including Seat Cover Constellation and lid with C.P brass hinges and rubber buffers, Cistern with Lid Constellation and Fittings (Water Saver) and C.I / R.S brackets, 40 mm porcelain enamelled flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.		
	(i) White	no	22567.10 (Rupees twenty two thousand five hundred sixty seven and paise ten) only.
	(ii) Pastel	no	30766.80 (Rupees thirty thousand seven hundred sixty six and paise eighty) only.
17.06	Providing and fixing vitreous china pedestal type water closet (EWC Studio S-trap Set) with seat and lid, C.P. brass hinges and rubber buffers, 10 litres low level flushing cistern Studio with fittings (Dual Flush), C.I / R.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangement with specials of standard make and mosquito proof coupling of approved design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.		
	(i) White	no	22815.60 (Rupees twenty two thousand eight hundred fifteen and paise sixty) only.
	(ii) Pastel	no	31959.50 (Rupees thirty one thousand nine hundred fifty nine and paise fifty) only.
	(iii) Special Coloured	no	28567.80 (Rupees twenty eight thousand five hundred sixty seven and paise eighty) only.
17.07	Providing and fixing vitreous china type water closet (EWC		

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	Extended Wall Mounting Studio Set) with seat and lid, C.P. brass hinges and rubber buffers, 10 litres low level flushing cistern Studio with fittings (Dual Flush), C.I / R.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangement with specials of standard make and mosquito proof coupling of approved design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.		
	(i) White	no	21772.00 (Rupees twenty one thousand seven hundred seventy two) only.
	(ii) Pastel	no	30443.80 (Rupees thirty thousand four hundred forty three and paise eighty) only.
	(iii) Special Coloured	no	30443.80 (Rupees thirty thousand four hundred forty three and paise eighty) only.
<u>PWD TOILET</u>			
17.08	Providing and fixing White vitreous china (Matrix Set -1) WB 65 x 35 with one pair mounting brackets, EWC & Cistern complete with fittings & seat cover, one no hinged rail 76 cm and five nos of grab rails 60 cm, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :	no	97364.70 (Rupees ninety seven thousand three hundred sixty four and paise seventy) only.
17.09	Providing and fixing vitreous china water closet (Floor Mounted EWC Universal/Anglo Indian 'P') of Parryware/Hindware/Cera and equivalent make including cutting and making good the walls and floors wherever required.		
	(i) White	no	7223.30 (Rupees seven thousand two hundred twenty three and paise thirty) only.
	(ii) Pastel		10834.30 (Rupees ten thousand eight hundred thirty four and paise thirty) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
17.10	Providing and fixing solid plastic Seat Cover and lid for pedestal type W.C. pan with C.P. brass hinges, rubber buffers, etc. complete.		
	(i) White	each	826.60 (Rupees eight hundred twenty six and paise sixty) only.
	(b) Pastel colour	each	1199.90 (Rupees one thousand one hundred ninety nine and paise ninety) only.
 <u>URINALS</u>			
17.11	Providing and fixing vitreous china Urinal Flat Back Small 44 x 26.5 x 31.5cm size of Parryware/ Hindware/ Cera and equivalent make with flush valve/spray with C.I or R.S brackets standard size of G.I 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.		
	(i) White	no	9631.80 (Rupees nine thousand six hundred thirty one and paise eighty) only.
	(ii) Pastel	no	10526.10 (Rupees ten thousand five hundred twenty six and paise ten) only.
17.12	Providing and fixing vitreous china Urinal Flat Back Large 59 x 37.5 x 39cm of Parryware/ Hindware/ Cera and equivalent make with flush valve/spray with C.I or R.S brackets standard size of G.I 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.		
	(i) White	no	13766.70 (Rupees thirteen thousand seven hundred sixty six and paise seventy) only.
	(ii) Pastel	no	16937.60 (Rupees sixteen thousand nine hundred thirty seven and paise sixty) only.
17.13	Providing and fixing one piece construction of vitreous china squatting plate urinal of Parryware/ Hindware/ Cera and		

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	equivalent make with an internal longitudinal flushing pipe, Flush valve with fitting, R.S. or G.I. flushing pipe for back and front flush with standard spreaders pipe with fittings, G.I. clamps white vitreous corners and angles set in vent cement standard urinal C.I. trap 65mm dia. with vent arm and outlet grating and coupling in C.P. brass complete including painting of fittings, cutting and making good the walls and floors where required.		
	(i) White	no	14903.50 (Rupees fourteen thousand nine hundred three and paise fifty) only.
	(ii) Pastel	no	16293.20 (Rupees sixteen thousand two hundred ninety three and paise twenty) only.
17.14	Providing and fixing vitreous Division Plate 69 x 30 cm size for Urinals.		
	(i) White	no	2709.90 (Rupees two thousand seven hundred nine and paise ninety) only.
	(ii) Pastel	no	4184.90 (Rupees four thousand one hundred eighty four and paise ninety) only.
	<u>HEALTH FAUCET</u>		
17.15	Providing and fixing Health faucet with flexible tube upto 1 metre long and holder of quality and make as approved by Engineer - in - charge..		
		no	1518.70 (Rupees one thousand five hundred eighteen and paise seventy) only.
	<u>WASH BASIN</u>		
17.16	Providing and fixing White vitreous china wash basin Standard of Parryware/ Hindware/ Cera and equivalent make with R.S. or C.I. brackets, 15mm C.P. brass pillar taps, C.P. brass chain with rubber plugs, 32mm C.P. brass waste of standard pattern, 32mm C.P. brass traps and union complete including painting of fittings and brackets, cutting and making good the walls wherever required.		
	(a) Vitreous China Wash basin size 630x450 mm with single 15 mm C.P. brass pillar taps		

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
(i)	White	no	11648.60 (Rupees eleven thousand six hundred forty eight and paise sixty) only.
(ii)	Pastel	no	15968.20 (Rupees fifteen thousand nine hundred sixty eight and paise twenty) only.
(b)	Vitreous China Wash basin Compact 450 x 300 mm with single 15 mm C.P. brass pillar taps		
(i)	White	no	6304.50 (Rupees six thousand three hundred four and paise fifty) only.
(ii)	Pastel	no	7768.00 (Rupees seven thousand seven hundred sixty eight) only.
(c)	Vitreous China corner Wash basin 450 x 390 mm with single 15 mm C.P. brass pillar taps		
(i)	White	no	6536.80 (Rupees six thousand five hundred thirty six and paise eighty) only.
(ii)	Pastel	no	8116.50 (Rupees eight thousand one hundred sixteen and paise fifty) only.

PEDESTAL

17.17 Providing and fixing vitreous china tall pedestal of Parryware/ Hindware/ Cera and equivalent make for wash basin completely recessed at the back for the reception of pipes and fittings.

(i)	White	no	3304.50 (Rupees three thousand three hundred four and paise fifty) only.
(ii)	Pastel	no	4628.60 (Rupees four thousand six hundred twenty eight and paise sixty) only.

BOTTLE TRAP

17.18 Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.

no 1976.90

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand nine hundred seventy six and paise ninety) only.
	<u>VANITY BASIN</u>		
17.19	Providing and fixing vitreous china Mini Oval 49x36 (Over the Counter) vanity basin of Parryware/ Hindware/ Cera and equivalent make with R.S. or C.I. brackets, 15mm C.P. brass pillar taps, C.P. brass chain with rubber plugs, 32mm C.P. brass waste of standard pattern, 32mm C.P. brass traps and union complete including painting of fittings and brackets, cutting and making good the walls wherever required.		
	(i) White		
	(a) Mini Oval 49x36 (Over the Counter) vanity basin with Central Hole Basin Mixer.	no	9419.60 (Rupees nine thousand four hundred nineteen and paise sixty) only.
	(b) Mini Oval 49x36 (Over the Counter) vanity basin without pillar tap.	no	4686.00 (Rupees four thousand six hundred eighty six) only.
	(ii) Pastel		
	(a) Mini Oval 49x36 (Over the Counter) vanity basin with Central Hole Basin Mixer.	no	10894.60 (Rupees ten thousand eight hundred ninety four and paise sixty) only.
	(b) Mini Oval 49x36 (Over the Counter) vanity basin without pillar tap.	no	6161.10 (Rupees six thousand one hundred sixty one and paise ten) only.
17.20	Providing and fixing vitreous china Vanity Basins of size 56x45 (Under Counter) of Parryware/ Hindware/ Cera and equivalent make with R.S. or C.I. brackets, 15mm C.P. brass pillar taps, C.P. brass chain with rubber plugs, 32mm C.P. brass waste of standard pattern, 32mm C.P. brass traps and union complete including painting of fittings and brackets, cutting and making good the walls wherever required.		
	(i) White		
	(a) Vanity Basin of size 56x45 (Under Counter) with Central Hole Basin Mixer.	no	9663.40 (Rupees nine thousand six hundred sixty three and paise forty) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Vanity Basin of size 56x45 (Under Counter) without pillar	no	4929.80 (Rupees four thousand nine hundred twenty nine and paise eighty) only.
	(ii) Pastel		
	(a) Vanity Basin Round Starlet 49 cm dia (Over the Counter) with Central Hole Basin Mixer.	no	11272.50 (Rupees eleven thousand two hundred seventy two and paise fifty) only.
	(b) Wash Basins Round Starlet 49 cm dia (Over the Counter) without pillar tap .	no	6539.00 (Rupees six thousand five hundred thirty nine) only.
17.21	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 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 : (Hindware or equivalent)		
	(a) Single Sink 610x510 mm bowl depth 200mm	no	3011.70 (Rupees three thousand eleven and paise seventy) only.
	(b) Single Sink 610x460 mm bowl depth 200mm	no	5075.30 (Rupees five thousand seventy five and paise thirty) only.
17.22	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm 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 :		
	(a) Size 450x300x150mm.	no	4596.70 (Rupees four thousand five hundred ninety six and paise seventy) only.
	(b) Size 600x450x200mm	no	7015.00 (Rupees seven thousand fifteen) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>BATH TUB</u>			
17.23	Providing and fixing bath tub vitreous 1670mmx755mmx470mm (5.6ftx2.6ft) of Hindware make or its equivalent including integral overflow, a pair of 20mm C.P. brass pillar taps, 40mm C.P brass chain with rubber plug, 40mm C.P. brass trap with union complete.	no	30900.00 (Rupees thirty thousand nine hundred only.)
<u>MIRROR</u>			
17.24	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 :	no	1559.00 (Rupees one thousand five hundred fifty nine) only.
17.25	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick asbestos sheet ground fixed to cleats with C.P. brass screws and washers.	no	2007.90 (Rupees two thousand seven and paise ninety) only.
<u>SHELF</u>			
17.26	Providing and fixing Glass shelf Diplomat of Essline/Omkar/Agmeco or equivalent make with C.P. brass brackets and guard soil complete fixed to wooden cleats with C.P. brass screws.		
	(a) Glass shelf Diplomat 450mm	no	2452.30 (Rupees two thousand four hundred fifty two and paise thirty) only.
	(b) Glass shelf Diplomat 510mm	no	2805.30 (Rupees two thousand eight hundred five and paise thirty) only.
	(c) Glass shelf Diplomat 600mm	no	2805.30 (Rupees two thousand eight hundred five and paise thirty) only.
17.27	Providing and fixing Glass Shelf of Jaguar Continental or equivalent make with C.P. brass brackets and guard soil complete fixed to wooden cleats with C.P. brass screws.		

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Coner Glass Shelf (With Brack)	no	3098.90 (Rupees three thousand ninety eight and paise ninety) only.
	(b) Glass Shelf 22"	no	3146.30 (Rupees three thousand one hundred forty six and paise thirty) only.
17.28	Providing and fixing C.P. brass towel rail with two C.P. brass brackets to wooden cleats with C.P. brass screws.		
	(a) 750x20mm size.	no	2136.60 (Rupees two thousand one hundred thirty six and paise sixty) only.
	(b) 600x20mm size.	no	1958.20 (Rupees one thousand nine hundred fifty eight and paise twenty) only.
17.29	Providing and fixing anodised aluminium towel rail with two anodised aluminium brackets to wooden cleats with C.P. brass screws.		
	(a) 750x20mm size.	no	673.10 (Rupees six hundred seventy three and paise ten) only.
	(b) 600x20mm size.	no	599.30 (Rupees five hundred ninety nine and paise thirty) only.
17.30	Providing and fixing toilet paper holder.		
	(a) C.P. brass toilet paper holder of standard size.	no	2484.90 (Rupees two thousand four hundred eighty four and paise ninety) only.
	(b) Plastic toilet paper holder of standard size.	no	867.40 (Rupees eight hundred sixty seven and paise forty) only.
17.31	Providing and fixing liquid soap container with C.P. brass lid and brackets fixed to wooden cleats with C.P. brass screws.		

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) Glass container with C.P. lid and brackets.	no	1224.40 (Rupees one thousand two hundred twenty four and paise forty) only.
	(b) Soap dish chromium plated with brackets.	no	1908.60 (Rupees one thousand nine hundred eight and paise sixty) only.
17.32	Providing and fixing soap dish fixed with C.P. brass screws.	no	1624.80 (Rupees one thousand six hundred twenty four and paise eighty) only.
<u>SANITARY PIPE</u>			
17.33	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.		
	(a) 110mm dia.	rm	506.10 (Rupees five hundred six and paise ten) only.
	(b) 75mm dia.	rm	306.50 (Rupees three hundred six and paise fifty) only.
17.34	Providing and fixing SWRPVC plain bend of required degree (87.50°) including jointing with rubber lubricant/cement solvent complete.		
	(a) 110 mm dia.	no	221.50 (Rupees two hundred twenty one and paise fifty) only.
	(b) 75 mm dia.	no	172.30 (Rupees one hundred seventy two and paise thirty) only.
17.35	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.		
	(a) 110 mm dia.	no	221.50 (Rupees two hundred twenty one and paise fifty) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) 75 mm dia.	no	172.30 (Rupees one hundred seventy two and paise thirty) only.
17.36	Providing and fixing SWRPVC bend with access door of required degree including jointing with rubber lubricant/cement solvent complete.		
	(a) 110mm dia SWRPVC bend with access door.	no	283.10 (Rupees two hundred eighty three and paise ten) only.
	(b) 75mm dia SWRPVC bend with access door.	no	221.50 (Rupees two hundred twenty one and paise fifty) only.
17.37	Providing and fixing single equal SWRPVC plain junction of required degree (T-junction) .		
	(a) 110x110x110mm.	no	295.40 (Rupees two hundred ninety five and paise forty) only.
	(b) 75x75x75mm.	no	221.50 (Rupees two hundred twenty one and paise fifty) only.
17.38	Providing and fixing single equal SWRPVC plain junction of required degree with access door (T-junction) .		
	(a) 110x110x110mm.	no	344.60 (Rupees three hundred forty four and paise sixty) only.
	(b) 75 x 75 x 75 mm.	no	209.20 (Rupees two hundred nine and paise twenty) only.
17.39	Providing and fixing SWRPVC plain junction of required degree with access door (Y-junction) including jointing with rubber lubricant/cement solvent.		
	(a) 110 mm Y-junction of SWRPVC with access door.	no	430.80 (Rupees four hundred thirty and paise eighty) only.
	(b) 75 mm Y-junction of SWRPVC with access door	no	307.70 (Rupees three hundred seven and paise seventy) only.

17. SANITARY INSTALLATION

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
17.40	Providing and fixing SWRPVC plain junction of required degree (Y-junction) including jointing with rubber lubricant/cement solvent.		
	(a) 110 mm Y-junction.	no	356.90 (Rupees three hundred fifty six and paise ninety) only.
	(b) 75 mm 'Y' junction.	no	270.80 (Rupees two hundred seventy and paise eighty) only.
17.41	Providing and fixing SWRPVC socket including jointing with rubber lubricant/cement solvent.		
	(a) 110mm dia socket.	no	160.00 (Rupees one hundred sixty) only.
	(b) 75 mm dia socket.	no	110.80 (Rupees one hundred ten and paise eighty) only.
17.42	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.		
	(a) 110mm SWRPVC vent cowl	no	94.80 (Rupees ninety four and paise eighty) only.
	(b) 75mm SWRPVC vent cowl	no	66.50 (Rupees sixty six and paise fifty) only.
17.43	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent	no	324.90 (Rupees three hundred twenty four and paise ninety) only.
17.44	Providing and fixing 125/110 S-trap SWRPVC including joining with rubber lubricant/ solvent cement.	no	873.80 (Rupees eight hundred seventy three and paise eighty) only.
17.45	Providing and fixing uPVC multi floor trap with floor trap grating including jointing with rubber lubricant/ solvent cement	no	428.30 (Rupees four hundred twenty eight and paise thirty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
18.01	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		
	(a) Sintex or equivalent	litre	16.83 (Rupees sixteen and paise eighty three) only.
	(a) Local made	litre	11.23 (Rupees eleven and paise twenty three) only.
18.02	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc. (<i>internal works- exposed on wall</i>).		
	(a) 20mm dia nominal bore	rm	426.20 (Rupees four hundred twenty six and paise twenty) only.
	(b) 25mm dia nominal bore	rm	435.00 (Rupees four hundred thirty five) only.
	(c) 32mm dia nominal bore	rm	521.90 (Rupees five hundred twenty one and paise ninety) only.
18.03	Extra for concealed in brick and RCC works by making chases upto 7.5x7.5cm in walls and making good the same after housing pipes, etc.		
		rm	146.70 (Rupees one hundred forty six and paise seventy) only.
18.04	Providing and fixing G.I. pipe complete with G.I. fitting including trenching and refilling etc. (<i>external work</i>).		
	(a) 15mm dia nominal bore.	rm	289.60 (Rupees two hundred eighty nine and paise sixty) only.
	(b) 20mm dia nominal bore.	rm	344.20 (Rupees three hundred forty four and paise twenty) only.
	(c) 25mm dia nominal bore.	rm	350.10 (Rupees three hundred fifty and paise ten) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(d) 32mm dia nominal bore.	rm	420.30 (Rupees four hundred twenty and paise thirty) only.
	(e) 40mm dia nominal bore.	rm	486.80 (Rupees four hundred eighty six and paise eighty) only.
18.05	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete <i>(cost of water meter and stop cock to be paid seperately).</i>	no	567.60 (Rupees five hundred sixty seven and paise sixty) only.
18.06	Making connection of G.I. distribution branch with G.I. main 25mm to 40mm nominal bore by providing and fixing Tee including cutting and threading the pipe etc. complete.	no	637.30 (Rupees six hundred thirty seven and paise thirty) only.
18.07	Providing and fixing brass bib cock of approved quality.		
	(a) 15mm nominal bore	no	671.80 (Rupees six hundred seventy one and paise eighty) only.
	(b) 20mm nominal bore	no	759.70 (Rupees seven hundred fifty nine and paise seventy) only.
	(c) 25mm nominal bore	no	811.70 (Rupees eight hundred eleven and paise seventy) only.
18.08	Providing and fixing brass stop cock of approved quality.		
	(a) 15mm nominal bore	no	786.80 (Rupees seven hundred eighty six and paise eighty) only.
	(b) 20mm nominal bore	no	918.90 (Rupees nine hundred eighteen and paise ninety) only.
	(c) 25mm nominal bore	no	1051.00 (Rupees one thousand fifty one) only.
18.09	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New		

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	work) .		
(a)	15 mm nominal bore	no	268.30 (Rupees two hundred sixty eight and paise thirty) only.
(b)	20 mm nominal bore	no	283.40 (Rupees two hundred eighty three and paise forty) only.
(c)	25 mm nominal bore	no	312.40 (Rupees three hundred twelve and paise forty) only.
(d)	32 mm nominal bore	no	327.50 (Rupees three hundred twenty seven and paise fifty) only.
(e)	40 mm nominal bore	no	370.50 (Rupees three hundred seventy and paise fifty) only.
(f)	50mm nominal bore	no	531.90 (Rupees five hundred thirty one and paise ninety) only.
18.10	Providing and fixing G.I. Union in existing G.I pipeline, cutting and threading the pipe and making long screws including excavation refilling the earth or cutting of wall and making good the same complete wherever required.,		
(a)	15 mm nominal bore.	no	587.70 (Rupees five hundred eighty seven and paise seventy) only.
(b)	20 mm nominal bore.	no	602.80 (Rupees six hundred two and paise eighty) only.
(c)	25 mm nominal bore.	no	631.80 (Rupees six hundred thirty one and paise eighty) only.
(d)	32 mm nominal bore.	no	646.90 (Rupees six hundred forty six and paise ninety) only.
(e)	40 mm nominal bore.	no	689.90 (Rupees six hundred eighty nine and paise ninety) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(f) 50mm nominal bore Details of cost for one no.	no	967.50 (Rupees nine hundred sixty seven and paise fifty) only.
18.11	Painting G.I pipes and fittings with white paint over ready mixed priming coat, both of approved quality.		
	(a) 15mm dia pipe	no	19.90 (Rupees nineteen and paise ninety) only.
	(b) 20mm dia pipe	no	24.90 (Rupees twenty four and paise ninety) only.
	(c) 25mm dia pipe	no	31.30 (Rupees thirty one and paise thirty) only.
	(d) 32mm dia pipe	no	39.40 (Rupees thirty nine and paise forty) only.
	(e) 40mm dia pipe	no	44.90 (Rupees forty four and paise ninety) only.
18.12	Painting G.I pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality.		
	(a) 15mm dia pipe	rm	10.20 (Rupees ten and paise twenty) only.
	(b) 20mm dia pipe	rm	12.70 (Rupees twelve and paise seventy) only.
	(c) 25mm dia pipe	rm	16.00 (Rupees sixteen) only.
	(d) 32mm dia pipe	rm	20.10 (Rupees twenty and paise ten) only.
	(e) 40mm dia pipe	rm	22.90 (Rupees twenty two and paise ninety) only.
18.13	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 15mm nominal bore	no	620.20 (Rupees six hundred twenty and paise twenty) only.
	(b) 20mm nominal bore	no	733.30 (Rupees seven hundred thirty three and paise thirty) only.
	(c) 25mm nominal bore	no	878.30 (Rupees eight hundred seventy eight and paise thirty) only.
18.14	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :		
	(a) 15mm nominal bore	no	643.80 (Rupees six hundred forty three and paise eighty) only.
	(b) 20mm nominal bore	no	822.70 (Rupees eight hundred twenty two and paise seventy) only.
	(c) 25mm nominal bore	no	1056.40 (Rupees one thousand fifty six and paise forty) only.
	<u>CHROMIUM PLATED</u>		
18.15	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 .		
	(a) 15 mm nominal bore. Class-III	no	709.80 (Rupees seven hundred nine and paise eighty) only.
	(b) 15 mm nominal bore. Class-II	no	1267.30 (Rupees one thousand two hundred sixty seven and paise thirty) only.
	(c) 15 mm nominal bore. Class-I	no	1371.80 (Rupees one thousand three hundred seventy one and paise eighty) only.
	(d) 20 mm nominal bore.	no	1383.40 (Rupees one thousand three hundred eighty three and paise forty) only.

18.16 Providing and fixing 15 mm nominal bore C.P. brass angle stop

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	cock for basin mixer and geyser points of approved quality conforming to IS:8931 .		
	(a) Class-III	no	706.90 (Rupees seven hundred six and paise ninety) only.
	(b) Class-II	no	1055.30 (Rupees one thousand fifty five and paise thirty) only.
	(c) Class-I	no	1880.00 (Rupees one thousand eight hundred eighty) only.
18.17	Providing and fixing 15mm nominal bore chromium plated brass bib cock of approved quality.		
	(a) Class-III	no	670.60 (Rupees six hundred seventy and paise sixty) only.
	(b) Class-II	no	1019.10 (Rupees one thousand nineteen and paise ten) only.
	(c) Class-I	no	3191.10 (Rupees three thousand one hundred ninety one and paise ten) only.
18.18	Providing and fixing 15mm nominal bore chromium plated brass pillar cock of approved quality.		
	(a) Class-III	no	728.70 (Rupees seven hundred twenty eight and paise seventy) only.
	(b) Class-II	no	1077.20 (Rupees one thousand seventy seven and paise twenty) only.
	(c) Class-I	no	3562.80 (Rupees three thousand five hundred sixty two and paise eighty) only.
18.19	Providing and fixing chromium plated brass long neck pillar cock of approved quality.		
	(a) 15mm nominal bore. Classik	no	1774.10

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees one thousand seven hundred seventy four and paise ten) only.
	(b) 15mm nominal bore. Element	no	2587.10 (Rupees two thousand five hundred eighty seven and paise ten) only.
18.20	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards.		
	(a) 15mm nominal bore	no	1226.50 (Rupees one thousand two hundred twenty six and paise fifty) only.
18.21	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards.		
	(a) 15mm nominal bore. Classik	no	1188.90 (Rupees one thousand one hundred eighty eight and paise ninety) only.
	(b) 15mm nominal bore. Element	no	1409.50 (Rupees one thousand four hundred nine and paise fifty) only.
18.22	Providing and fixing chromium plated brass shower rose with 15 or 20mm inlet.		
	(a) 100mm dia CP brass shower rose.	no	2979.10 (Rupees two thousand nine hundred seventy nine and paise ten) only.
	(b) 150mm dia CP brass shower rose.	no	4184.20 (Rupees four thousand one hundred eighty four and paise twenty) only.
	(c) 200mm dia CP brass shower rose.	no	5212.10 (Rupees five thousand two hundred twelve and paise ten) only.
18.23	Providing and fixing chromium plated brass close hole basin mixer pillar tap 15mm nominal bore of standard back type of approved quality.		

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(i) <i>Central Hole Basin Mixer Round Spout without Popup Waste system</i>	no	4695.40 (Rupees four thousand six hundred ninety five and paise forty) only.
	(ii) <i>Central Hole Basin Mixer Round Spout with Popup Waste system</i>	no	5549.10 (Rupees five thousand five hundred forty nine and paise ten) only.
18.24	Providing and fixing chromium plated brass wall mixer 15mm nominal bore of approved make with necessary fittings including cutting and making good the wall.		
	(i) <i>Wall Mixer Non-Telephonic</i>	no	4368.70 (Rupees four thousand three hundred sixty eight and paise seventy) only.
	(ii) <i>Wall Mixer Telephonic with Crutch (provision for hand shower)</i>	no	5900.40 (Rupees five thousand nine hundred and paise forty) only.
	(iii) <i>Wall Mixer with L-Bend (provision for OH Shower)</i>	no	8228.60 (Rupees eight thousand two hundred twenty eight and paise sixty) only.
	(iv) <i>Wall Mixer 3-in-1 with (provision for OH & hand Shower both)</i>	no	9882.90 (Rupees nine thousand eight hundred eighty two and paise ninety) only.

PVC PIPES

18.25 Providing and fixing PVC pipes complete with fittings and clamps, including cutting and making good the walls etc. *(internal work)*.

(a) 15mm dia nominal bore	rm	187.90 (Rupees one hundred eighty seven and paise ninety) only.
(b) 20mm dia nominal bore	rm	212.00 (Rupees two hundred twelve) only.

18.26 Providing and fixing PVC pipes complete with fittings including trenching and refilling etc. *(external work)*.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 15mm dia nominal bore	rm	151.30 (Rupees one hundred fifty one and paise thirty) only.
	(b) 20mm dia nominal bore	rm	175.40 (Rupees one hundred seventy five and paise forty) only.
18.27	Providing and fixing PVC bib cock of approved quality, colour and make.		
	(a) 15mm nominal bore	no	146.40 (Rupees one hundred forty six and paise forty) only.
	(b) 20mm nominal bore	no	195.10 (Rupees one hundred ninety five and paise ten) only.
18.28	Providing and fixing PVC stop cock of approved quality, colour and make.		
	(a) 15mm nominal bore	no	125.50 (Rupees one hundred twenty five and paise fifty) only.
	(b) 20mm nominal bore	no	188.20 (Rupees one hundred eighty eight and paise twenty) only.
	<u>CPVC PIPES -</u>		
18.29	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall		
	(a) 15mm dia nominal bore	rm	244.20 (Rupees two hundred forty four and paise twenty) only.
	(b) 20mm dia nominal bore	rm	288.20 (Rupees two hundred eighty eight and paise twenty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 25mm dia nominal bore	rm	306.30 (Rupees three hundred six and paise thirty) only.
	(d) 32mm dia nominal bore	rm	443.60 (Rupees four hundred forty three and paise sixty) only.
	(e) 40mm dia nominal bore	rm	580.00 (Rupees five hundred eighty) only.
	(f) 50mm dia nominal bore	rm	856.90 (Rupees eight hundred fifty six and paise ninety) only.
18.30	Extra for concealed in brick and RCC works by making chases upto 7.5x7.5cm in walls and making good the same after housing pipes, etc.	rm	89.33 (Rupees eighty nine and paise thirty three) only.
18.31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.		
	(a) 15mm dia nominal bore.	rm	210.40 (Rupees two hundred ten and paise forty) only.
	(b) 20mm dia nominal bore.	rm	245.10 (Rupees two hundred forty five and paise ten) only.
	(c) 25mm dia nominal bore.	rm	263.20 (Rupees two hundred sixty three and paise twenty) only.
	(d) 32mm dia nominal bore.	rm	384.00 (Rupees three hundred eighty four) only.
	(e) 40mm dia nominal bore.	rm	484.70 (Rupees four hundred eighty four and paise seventy) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(f) 50mm dia nominal bore.	rm	761.50 (Rupees seven hundred sixty one and paise fifty) only.
18.32	Making connection of CPVC pipes distribution branch by providing and fixing equal Tee with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia nominal bore.	no	74.70 (Rupees seventy four and paise seventy) only.
	(b) 20mm dia nominal bore.	no	106.30 (Rupees one hundred six and paise thirty) only.
	(c) 25mm dia nominal bore.	no	141.40 (Rupees one hundred forty one and paise forty) only.
	(d) 32mm dia nominal bore.	no	248.00 (Rupees two hundred forty eight) only.
	(e) 40mm dia nominal bore.	no	346.20 (Rupees three hundred forty six and paise twenty) only.
	(f) 50mm dia nominal bore.	no	693.80 (Rupees six hundred ninety three and paise eighty) only.
18.33	Making connection of Astral CPVC pipes distribution branch by providing and fixing Cross Tee with jointing, testing complete including cutting and making good etc.		
	(a) 15x15x20mm	no	103.40 (Rupees one hundred three and paise forty) only.
	(b) 20x20x15mm	no	166.60 (Rupees one hundred sixty six and paise sixty) only.
	(c) 20x15x15mm	no	103.00 (Rupees one hundred three) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(d) 20x15x20mm	no	153.80 (Rupees one hundred fifty three and paise eighty) only.
18.34	Making connection of Astral CPVC pipes distribution branch by providing and fixing reducing Tee with jointing, testing complete including cutting and making good etc.		
	(a) 25x25x20mm	no	160.70 (Rupees one hundred sixty and paise seventy) only.
	(b) 40x40x25mm	no	357.30 (Rupees three hundred fifty seven and paise thirty) only.
	(c) 50x50x25mm	no	72.40 (Rupees seventy two and paise forty) only.
18.35	Making connection of Astral CPVC pipes distribution branch by providing and fixing Brass FPT Tee with jointing, testing complete including cutting and making good etc.		
	(a) 15x15x15mm	no	147.90 (Rupees one hundred forty seven and paise ninety) only.
	(b) 20x20x15mm	no	192.50 (Rupees one hundred ninety two and paise fifty) only.
	(c) 25x25x15mm	no	213.10 (Rupees two hundred thirteen and paise ten) only.
18.36	Making connection of Astral CPVC pipes distribution branch by providing and fixing Elbow 90° with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	63.80 (Rupees sixty three and paise eighty) only.
	(b) 20mm dia.	no	94.00 (Rupees ninety four) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 25mm dia.	no	118.70 (Rupees one hundred eighteen and paise seventy) only.
	(d) 32mm dia.	no	192.90 (Rupees one hundred ninety two and paise ninety) only.
	(e) 40mm dia.	no	282.40 (Rupees two hundred eighty two and paise forty) only.
	(f) 50mm dia.	no	552.00 (Rupees five hundred fifty two) only.
18.37	Making connection of Astral CPVC pipes distribution branch by providing and fixing Elbow 45° with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	63.80 (Rupees sixty three and paise eighty) only.
	(b) 20mm dia.	no	94.00 (Rupees ninety four) only.
	(c) 25mm dia.	no	150.70 (Rupees one hundred fifty and paise seventy) only.
	(d) 32mm dia.	no	192.90 (Rupees one hundred ninety two and paise ninety) only.
	(e) 40mm dia.	no	339.20 (Rupees three hundred thirty nine and paise twenty) only.
	(f) 50mm dia.	no	523.60 (Rupees five hundred twenty three and paise sixty) only.
18.38	Making connection of Astral CPVC pipes distribution branch by providing and fixing Reducing 'L' Ebow 90° with jointing, testing complete including cutting and making good etc.		
	(a) 20x15mm	no	92.50 (Rupees ninety two and paise fifty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
18.39	Making connection of Astral CPVC pipes distribution branch by providing and fixing Brass Elbow 90° with jointing, testing complete including cutting and making good etc.		
	(a) 15x15mm dia.	no	119.50 (Rupees one hundred nineteen and paise fifty) only.
	(b) 20x15mm dia.	no	145.50 (Rupees one hundred forty five and paise fifty) only.
18.40	Making connection of Astral CPVC pipes distribution branch by providing and fixing Male Adaptor (P) with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	62.30 (Rupees sixty two and paise thirty) only.
	(b) 20mm dia.	no	81.60 (Rupees eighty one and paise sixty) only.
	(c) 25mm dia.	no	106.60 (Rupees one hundred six and paise sixty) only.
	(d) 32mm dia.	no	145.00 (Rupees one hundred forty five) only.
	(e) 40mm dia.	no	178.20 (Rupees one hundred seventy eight and paise twenty) only.
	(f) 50mm dia.	no	268.00 (Rupees two hundred sixty eight) only.
	(g) 20mm Soc x 15mm MIP	no	144.10 (Rupees one hundred forty four and paise ten) only.
18.41	Making connection of Astral CPVC pipes distribution branch by providing and fixing Male Adaptor (Brass) with jointing, testing complete including cutting and making good etc.		

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) 15mm dia.	no	231.80 (Rupees two hundred thirty one and paise eighty) only.
	(b) 20mm dia.	no	297.20 (Rupees two hundred ninety seven and paise twenty) only.
	(c) 25mm dia.	no	466.80 (Rupees four hundred sixty six and paise eighty) only.
18.42	Making connection of Astral CPVC pipes distribution branch by providing and fixing Female Adaptor (P) with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	68.30 (Rupees sixty eight and paise thirty) only.
	(b) 20mm dia.	no	169.20 (Rupees one hundred sixty nine and paise twenty) only.
	(c) 25mm dia.	no	345.90 (Rupees three hundred forty five and paise ninety) only.
	(d) 32mm dia.	no	187.60 (Rupees one hundred eighty seven and paise sixty) only.
	(e) 40mm dia.	no	247.00 (Rupees two hundred forty seven) only.
	(f) 50mm dia.	no	367.60 (Rupees three hundred sixty seven and paise sixty) only.
18.43	Making connection of Astral CPVC pipes distribution branch by providing and fixing Female Adaptor (Brass) with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	222.00 (Rupees two hundred twenty two) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) 20mm dia.	no	294.30 (Rupees two hundred ninety four and paise thirty) only.
	(c) 25mm dia.	no	461.90 (Rupees four hundred sixty one and paise ninety) only.
18.44	Making connection of Astral CPVC pipes distribution branch by providing and fixing Socket/Coupling with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	54.30 (Rupees fifty four and paise thirty) only.
	(b) 20mm dia.	no	66.70 (Rupees sixty six and paise seventy) only.
	(c) 25mm dia.	no	91.50 (Rupees ninety one and paise fifty) only.
	(d) 32mm dia.	no	136.00 (Rupees one hundred thirty six) only.
	(e) 40mm dia.	no	204.20 (Rupees two hundred four and paise twenty) only.
	(f) 50mm dia.	no	342.30 (Rupees three hundred forty two and paise thirty) only.
18.45	Making connection of Astral CPVC pipes distribution branch by providing and fixing Reducer Coupling with jointing, testing complete including cutting and making good etc.		
	(a) 15 x 15mm	no	63.80 (Rupees sixty three and paise eighty) only.
	(b) 20 x 15mm	no	65.30 (Rupees sixty five and paise thirty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 25 x 15mm	no	77.30 (Rupees seventy seven and paise thirty) only.
	(d) 25 x 20mm	no	96.60 (Rupees ninety six and paise sixty) only.
	(e) 32 x 20mm	no	141.60 (Rupees one hundred forty one and paise sixty) only.
	(f) 32 x 25mm	no	156.60 (Rupees one hundred fifty six and paise sixty) only.
	(g) 50 x 32mm	no	394.20 (Rupees three hundred ninety four and paise twenty) only.
18.46	Making connection of Astral CPVC pipes distribution branch by providing and fixing Union Socket with jointing, testing complete including cutting and making good etc.		
	(a) 15mm dia.	no	265.20 (Rupees two hundred sixty five and paise twenty) only.
	(b) 20mm dia.	no	322.60 (Rupees three hundred twenty two and paise sixty) only.
	(c) 25mm dia.	no	463.50 (Rupees four hundred sixty three and paise fifty) only.
18.47	Making connection of Astral CPVC pipes distribution branch by providing and fixing Reducer/Transition Bushing with jointing, testing complete including cutting and making good etc.		
	(a) 20 x 15mm	no	46.30 (Rupees forty six and paise thirty) only.
	(b) 25 x 15mm	no	64.20 (Rupees sixty four and paise twenty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 50 x 40mm	no	168.40 (Rupees one hundred sixty eight and paise forty) only.
18.48	Providing & Fitting Powder coated metal Strap/ holding clamps/ Clips with necessary metal fasteners and screws etc. complete.		
	(a) 15/20/25mm dia.	no	41.90 (Rupees forty one and paise ninety) only.
	(b) 32/ 40/ 50mm dia.	no	47.90 (Rupees forty seven and paise ninety) only.
18.49	Providing & Fitting Cap for end pipe etc. complete .		
	(a) 15mm dia.	no	17.80 (Rupees seventeen and paise eighty) only.
	(b) 20mm dia.	no	27.30 (Rupees twenty seven and paise thirty) only.
	(c) 25mm dia.	no	36.70 (Rupees thirty six and paise seventy) only.
	(d) 32mm dia.	no	64.00 (Rupees sixty four) only.
	(e) 40mm dia.	no	92.40 (Rupees ninety two and paise forty) only.
	(f) 50mm dia.	no	184.82 (Rupees one hundred eighty four and paise eighty two) only.
18.50	Providing and fixing CPVC Ball valve/ Globe/Stop & Waste valve/ Boiler drain etc. Complete.		
	(a) 15mm nominal bore	no	879.30 (Rupees eight hundred seventy nine and paise thirty) only.

18. WATER SUPPLY

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) 20mm nominal bore	no	998.80 (Rupees nine hundred ninety eight and paise eighty) only.
	(c) 25mm nominal bore	no	1064.70 (Rupees one thousand sixty four and paise seventy) only.
	(d) 32mm nominal bore	no	2498.90 (Rupees two thousand four hundred ninety eight and paise ninety) only.
	(e) 40mm nominal bore	no	3180.70 (Rupees three thousand one hundred eighty and paise seventy) only.
	(f) 50mm nominal bore	no	4090.50 (Rupees four thousand ninety and paise fifty) only.
18.51	Providing and placing in position electric water pump of approved manufacture including connections to G.I pipes etc. complete with accessories.		
	(a) 500 watts		7371.90 (Rupees seven thousand three hundred seventy one and paise ninety) only.
	(b) 750 watts		10280.40 (Rupees ten thousand two hundred eighty and paise forty) only.
18.52	Cutting holes up to 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 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	no	739.40 (Rupees seven hundred thirty nine and paise forty) only.
18.53	Providing and placing polyethylene septic tank with cover excluding fittings and the base support for tank.	lit	41.36 (Rupees forty one and paise thirty six) only.

19. WATER PROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
19.01	Applying single coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1 latex : 4 water : 7 cement) including cleaning the treated surfaces with brushes etc.@ 0.08 kg/sqm	sqm	110.90 (Rupees one hundred ten and paise ninety) only.
19.02	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 :7 (1 latex : 4 water :7 cement) including cleaning the treated surfaces with brushes etc.@ 0.158kg/sqm .	sqm	216.00 (Rupees two hundred sixteen) only.
19.03	Providing and mixing water proofing chemical (PIDI PROOF POWDER chemical) in plain and reinforced cement concrete work 1 : 1.5 : 3 , @ 1.0 % by weight of cement.	cum	438.10 (Rupees four hundred thirty eight and paise ten) only.
19.04	Providing and mixing water proofing chemical (PIDIPROOF POWDER chemical) in plain and reinforced cement concrete work 1 : 2 : 4 , @1.0% by weight of cement.	cum	350.50 (Rupees three hundred fifty and paise fifty) only.
19.05	Providing and mixing water proofing chemical (PIDIPROOF LW chemical) in plain and reinforced cement concrete work 1 : 1.5 : 3 , @ 0.4 % by weight of cement.	cum	354.40 (Rupees three hundred fifty four and paise forty) only.
19.06	Providing and mixing water proofing chemical (PIDI PROOF LW chemical) in plain and reinforced cement concrete work 1 : 2 : 4 , @ 0.4% by weight of cement.	cum	283.60 (Rupees two hundred eighty three and paise sixty) only.
19.07	Applying single coated PIDIFIN-2K on the surface of cement concrete for prevention of water infiltration and dampness in water tanks, basement, terraces, etc.) @ 0.925kg per sqm.	sqm	260.60 (Rupees two hundred sixty and paise sixty) only.
19.08	Applying double coated PIDIFIN-2K on the surface of cement concrete for prevention of water infiltration and dampness in water tanks, basement, terraces, etc.) @1.85kg per sqm.	sqm	431.70 (Rupees four hundred thirty one and paise seventy) only.
19.09	Applying double coated Pidicrete Multipurpose Binder (MPB) to		

19. WATER PROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	existing reinforcement and cement concrete for improving structural bonding of old and new concrete including cleaning, roughening etc. of the existing surface. @ 0.74 Litre per sqm.	sqm	498.70 (Rupees four hundred ninety eight and paise seventy) only.
19.10	Applying Waxed based membrane for curing all types of concrete and plastered surface, highway canal, ramps and walls, dry shake hardened floor hospitals, Dams, Industrial floors, runway, retaining wall etc. .	sqm	130.90 (Rupees one hundred thirty and paise ninety) only.
	Special Water Proof Admixtures for Mortar		
19.11	Cement mortar 1:1 (1 cement : 1 fine sand)	cum	15739.40 (Rupees fifteen thousand seven hundred thirty nine and paise forty) only.
19.12	Cement mortar 1:2 (1 cement :2 fine sand)	cum	12274.50 (Rupees twelve thousand two hundred seventy four and paise fifty) only.
19.13	Cement mortar 1:3 (1 cement : 3 fine sand)	cum	10542.10 (Rupees ten thousand five hundred forty two and paise ten) only.
19.14	Cement mortar 1:4 (1 cement : 4 fine sand)	cum	8906.80 (Rupees eight thousand nine hundred six and paise eighty) only.
19.15	Cement mortar 1:5 (1 cement : 5 fine sand)	cum	8026.30 (Rupees eight thousand twenty six and paise thirty) only.
19.16	Cement Mortar 1:6 (1 cement : 6 fine sand)	cum	10207.30 (Rupees ten thousand two hundred seven and paise thirty) only.
19.17	Applying single coated cement slurry with water proofing chemical (latex or equivalent chemical) in proportion 1 : 4 : 5 (1 latex : 4 water : 5 cement) including cleaning the treated surfaces with brushes etc.	sqm	174.90 (Rupees one hundred seventy four and paise ninety) only.
19.18	Applying double coated cement slurry with water proofing chemical (latex or equivalent chemical) in proportion 1 : 4 : 5 (1		

19. WATER PROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	latex : 4 water : 5 cement) including cleaning the treated surfaces with brushes etc.	sqm	345.60 (Rupees three hundred forty five and paise sixty) only.
19.19	Extra for providing and mixing water proofing chemical (latex or equivalent chemical) @ 2kg per bag of cement in -		
	(a) 12mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	214.30 (Rupees two hundred fourteen and paise thirty) only.
	(b) 12mm cement plaster 1 : 4 (1 cement : 4 fine sand).	sqm	160.70 (Rupees one hundred sixty and paise seventy) only.
	(c) 15mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	256.20 (Rupees two hundred fifty six and paise twenty) only.
	(d) 15mm cement plaster 1 : 4 (1 cement : 4 sand).	sqm	191.10 (Rupees one hundred ninety one and paise ten) only.
	(e) 20mm cement plaster 1:3 (1 cement :3 sand)	sqm	333.00 (Rupees three hundred thirty three) only.
	(f) 20mm cement plaster 1 : 4 (1 cement : 4 sand).	sqm	249.00 (Rupees two hundred forty nine) only.
19.20	Extra for providing and mixing water proofing chemical (plastocrete or equivalent chemical) in plain and reinforced cement concrete work 1 : 1.5 : 3 , @ 2% by weight of cement.	cum	4965.30 (Rupees four thousand nine hundred sixty five and paise thirty) only.
19.21	Extra for providing and mixing water proofing chemical (plastocrete or equivalent chemical) in plain and reinforced cement concrete work 1 : 2 : 4 , @ 2% by weight of cement.	cum	3972.20 (Rupees three thousand nine hundred seventy two and paise twenty) only.
19.22	Applying double coated top seal (cement based polymer modified water proofing slurry coating on the surface of cement concrete for prevention of water infiltration and dampness in water tanks, basement, terraces, etc.) @ 3kg per sqm.	sqm	2287.40

19. WATER PROOFING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees two thousand two hundred eighty seven and paise forty) only.
19.23	Applying double coated bonding chemical to existing reinforcement and cement concrete for improving structural bonding of old and new concrete including cleaning, roughening etc. of the existing surface. @ 0.55kg per sqm.	sqm	1516.40 (Rupees one thousand five hundred sixteen and paise forty) only.
19.24	Providing and applying ready to use, quick setting liquid water proofing compound Sika 4a or equivalent on cement mortar for preliminary waterproofing work on wet surfaces, prior to the installation of Noleek CP/Plastocrete- N/Plastocrete Plus Render (For OPC only) .		
	(a) Cement mortar 1:2	cum	28306.20 (Rupees twenty eight thousand three hundred six and paise twenty) only.
	(b) Cement mortar 1:3	cum	14153.10 (Rupees fourteen thousand one hundred fifty three and paise ten) only.
19.25	Applying priming coat with Top Seal 109hi for waterproofing on roofs etc. , crack bridging etc. on concrete structures .	sqm	212.90 (Rupees two hundred twelve and paise ninety) only.
19.26	Applying specially formulated 2 component acrylic polymer modified, cementitious, elastic coating Water proof, Top Seal 109 hi or equivalent for water proof coating and crack-bridging properties, impervious coating on roofs and concrete structures .		
	(a) Comp ' A ' - Top Seal 109hi - White Liquid.	sqm	1139.10 (Rupees one thousand one hundred thirty nine and paise ten) only.
	(b) Comp ' B ' Top Seal 109 hi - Grey Powder	sqm	336.40 (Rupees three hundred thirty six and paise forty) only.
19.27	Providing and mixing gord 703 W or equivalent for reducing capillary water absorption, efflorescence, dirt penetration, growth of algae and fungietc. on new works such as roofs, water tanks, foundations etc. , in two coats :	sqm	732.90 (Rupees seven hundred thirty two and paise ninety) only.

20. FINISHING**POINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.01	Pointing on brick works or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand). <i>Flush Pointing./Ruled/Struck or weathered Pointing</i>	sqm	168.80 (Rupees one hundred sixty eight and paise eighty) only.
20.02	Pointing on brick works or brick flooring with cement mortar 1:4 (1 cement :4 fine sand). <i>Flush Pointing./Ruled/Struck or weathered Pointing</i>	sqm	164.50 (Rupees one hundred sixty four and paise fifty) only.
20.03	Pointing on tile brick work with cement mortar 1:3 (1 cement : 3 fine sand) <i>Flush pointing/Ruled/Struck or Weathered Pointing.</i>	sqm	219.40 (Rupees two hundred nineteen and paise forty) only.
20.04	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand). (a) Flush pointing/Ruled Pointing.	sqm	400.30 (Rupees four hundred and paise thirty) only.
	(b) Raised and cut pointing.	sqm	417.60 (Rupees four hundred seventeen and paise sixty) only.
20.05	Raised and cut pointing on stone work in white cement 1:3 (1 white cement : 3 marble dust).	sqm	457.20 (Rupees four hundred fifty seven and paise twenty) only.
20.06	Extra for pointing on walls on the outside at height more than 10m from ground level for every additional height of 3m or part thereof.	sqm	29.90 (Rupees twenty nine and paise ninety) only.

20. FINISHING**PLASTERING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.07	12mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	297.30 (Rupees two hundred ninety seven and paise thirty) only.
20.08	12mm cement plaster 1 : 4 (1 cement : 4 fine sand).	sqm	276.90 (Rupees two hundred seventy six and paise ninety) only.
20.09	12mm cement plaster 1 : 5 (1 cement : 5 fine sand).	sqm	252.60 (Rupees two hundred fifty two and paise sixty) only.
20.10	12mm cement plaster 1 : 6 (1 cement : 6 fine sand).	sqm	242.70 (Rupees two hundred forty two and paise seventy) only.
20.11	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	333.90 (Rupees three hundred thirty three and paise ninety) only.
20.12	15mm cement plaster 1 : 4 (1 cement : 4 fine sand).	sqm	309.70 (Rupees three hundred nine and paise seventy) only.
20.13	15mm cement plaster 1 : 5 (1 cement : 5 fine sand).	sqm	294.60 (Rupees two hundred ninety four and paise sixty) only.
20.14	15mm cement plaster 1 : 6 (1 cement : 6 fine sand).	sqm	282.80 (Rupees two hundred eighty two and paise eighty) only.
20.15	20mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	409.68 (Rupees four hundred nine and paise sixty eight) only.
20.16	20mm cement plaster 1 : 4 (1 cement : 4 fine sand).	sqm	378.10 (Rupees three hundred seventy eight and paise ten) only.
20.17	20mm cement plaster 1 : 5 (1 cement : 5 fine sand).	sqm	358.50 (Rupees three hundred fifty eight and paise fifty) only.
20.18	20mm cement plaster 1 : 6 (1 cement : 6 fine sand).	sqm	343.10 (Rupees three hundred forty three and paise ten) only.
20.19	12mm cement plaster 1 : 3 (1 cement : 3 fine sand) finished with a floating coat of neat cement.	sqm	365.60

20. FINISHING

PLASTERING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
			(Rupees three hundred sixty five and paise sixty) only.
20.20	12mm cement plaster 1 : 4 (<i>1 cement : 4 fine sand</i>) finished with a floating coat of neat cement.	sqm	345.30 (Rupees three hundred forty five and paise thirty) only.
20.21	15mm cement plaster 1 : 3 (<i>1 cement : 3 fine sand</i>) finished with a floating coat of neat cement.	sqm	415.00 (Rupees four hundred fifteen) only.
20.22	15mm cement plaster 1 : 4 (<i>1 cement : 4 fine sand</i>) finished with a floating coat of neat cement.	sqm	390.70 (Rupees three hundred ninety and paise seventy) only.
20.23	20mm cement plaster 1 : 3 (<i>1 cement : 3 fine sand</i>) finished with a floating coat of neat cement.	sqm	492.10 (Rupees four hundred ninety two and paise ten) only.
20.24	20mm cement plaster 1 : 4 (<i>1 cement : 4 fine sand</i>) finished with a floating coat of neat cement.	sqm	460.50 (Rupees four hundred sixty and paise fifty) only.
20.25	6mm cement plaster to ceiling 1 : 3 (<i>1 cement : 3 fine sand</i>)	sqm	222.50 (Rupees two hundred twenty two and paise fifty) only.
20.26	6mm cement plaster to ceiling 1 : 4 (<i>1 cement : 4 fine sand</i>)	sqm	212.30 (Rupees two hundred twelve and paise thirty) only.
20.27	Extra for providing and mixing water proofing materials in proportion recommended by manufacturer in -		
	(a) 12mm cement plaster 1 : 3 (<i>1 cement : 3 fine sand</i>).	sqm	201.40 (Rupees two hundred one and paise forty) only.
	(b) 12mm cement plaster 1 : 4 (<i>1 cement : 4 fine sand</i>).	sqm	164.50 (Rupees one hundred sixty four and paise fifty) only.

20. FINISHING

PLASTERING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) 15mm cement plaster 1 : 3 (1 cement : 3 fine sand).	sqm	230.30 (Rupees two hundred thirty and paise thirty) only.
	(d) 15mm cement plaster 1 : 4 (1 cement : 4 sand).	sqm	185.40 (Rupees one hundred eighty five and paise forty) only.
	(e) 20mm cement plaster 1:3 (1 cement :3 sand)	sqm	283.10 (Rupees two hundred eighty three and paise ten) only.
	(f) 20mm cement plaster 1 : 4 (1 cement : 4 sand).	sqm	225.30 (Rupees two hundred twenty five and paise thirty) only.
20.28	12 mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)	sqm	232.20 (Rupees two hundred thirty two and paise twenty) only.
20.29	12 mm cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	213.80 (Rupees two hundred thirteen and paise eighty) only.
20.30	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	sqm	272.50 (Rupees two hundred seventy two and paise fifty) only.
20.31	15 mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement : 6 coarse sand)	sqm	247.00 (Rupees two hundred forty seven) only.
20.32	20 mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)	sqm	327.80 (Rupees three hundred twenty seven and paise eighty) only.
20.33	20 mm cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	297.50 (Rupees two hundred ninety seven and paise fifty) only.
20.34	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.	sqm	314.70 (Rupees three hundred fourteen and paise seventy) only.
20.35	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	355.90 (Rupees three hundred fifty five and paise ninety) only.

20. FINISHING**PLASTERING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.36	18 mm cement plaster in two coats under layer 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	330.30 (Rupees three hundred thirty and paise thirty) only.
20.37	18 mm cement plaster in two coats under layer 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 coarse sand) finished rough with sponge.	sqm	344.90 (Rupees three hundred forty four and paise ninety) only.
20.38	Providing and applying plaster of Paris of 2mm thickness over plastered surface to prepare the surface even and smooth.	sqm	420.00 (Rupees four hundred twenty) only.
20.39	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	172.60 (Rupees one hundred seventy two and paise sixty) only.
20.40	Rough cast plaster with a mixture of sand and gravel or crushed stone from 6mm to 10mm nominal size dashed over and including fresh plaster in two layers, under layer 12mm cement plaster 1 : 4 (1cement : 4fine sand) and top layer 10mm cement plaster 1 : 3 (1cement : 3fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	sqm	691.70 (Rupees six hundred ninety one and paise seventy) only.
20.41	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 fresh plaster in two layers under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	sqm	632.40 (Rupees six hundred thirty two and paise forty) only.
20.42	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	109.00 (Rupees one hundred nine) only.

20. FINISHING**PLASTERING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.43	Extra for plastering on circular work not exceeding 6 m in radius :		
	(a) In one coat :	sqm	34.70 (Rupees thirty four and paise seventy) only.
	(b) In two coats	sqm	55.00 (Rupees fifty five) only.
20.44	Extra for plastering done on moulding cornices or architraves including neat finish to line and level:		
	(a) In one coat	sqm	437.40 (Rupees four hundred thirty seven and paise forty) only.
	(b) In two coats	sqm	704.40 (Rupees seven hundred four and paise forty) only.
20.45	Extra for plastering		
	(a) Spherical ceiling	sqm	134.10 (Rupees one hundred thirty four and paise ten) only.
	(b) Groined ceiling	sqm	149.50 (Rupees one hundred forty nine and paise fifty) only.
	(c) Flewing soffits	sqm	84.60 (Rupees eighty four and paise sixty) only.
20.46	Extra for lining out plaster to imitate stone or concrete blocks walling .	sqm	70.47 (Rupees seventy and paise forty seven) only.

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>WHITE WASHING</u>			
20.47	White washing with lime to give an even shade : New work (three or more coats)	sqm	30.30 (Rupees thirty and paise thirty) only.
<u>COLOUR WASHING</u>			
20.48	Colour washing such as green, blue or buff with a base coat of white washing with lime to give an even shade. New work (two or more coat)	sqm	39.00 (Rupees thirty nine) only.
<u>PRIMER</u>			
20.49	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.		
	(a) Ready mix white primer.	sqm	96.90 (Rupees ninety six and paise ninety) only.
	(b) Ready mix pink primer.	sqm	63.50 (Rupees sixty three and paise fifty) only.
20.50	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	sqm	80.50 (Rupees eighty and paise fifty) only.
20.51	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) & Plywood.	sqm	74.40 (Rupees seventy four and paise forty) only.
20.52	Applying priming coat with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works.	sqm	59.00 (Rupees fifty nine) only.
20.53	Painting with silicon & acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces : Two coats.	sqm	194.00 (Rupees one hundred ninety four) only.

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.54	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade on new work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution :	sqm	128.70 (Rupees one hundred twenty eight and paise seventy) only.
20.55	Applying a coat of mordant solution on G.S. sheet with a solution of 38 gms of copper acetate in a litre of soft water :	sqm	65.80 (Rupees sixty five and paise eighty) only.
20.56	Applying a coat of mordant solution on G.S. sheet with a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water.	sqm	65.70 (Rupees sixty five and paise seventy) only.
20.57	Painting on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint approved brand and manufacture over and including a priming of ready mixed zinc chromate yellow primer : New work (two or more coat).		
	(a) 75 mm diameter pipes	rm	57.90 (Rupees fifty seven and paise ninety) only.
	(b) 100 mm diameter pipes	rm	79.01 (Rupees seventy nine and paise one) only.
	(c) 150 mm diameter pipes	rm	91.70 (Rupees ninety one and paise seventy) only.
20.58	Painting 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. New work (two or more coat)		
	(a) 100 mm diameter pipes	rm	94.50 (Rupees ninety four and paise fifty) only.
	(b) 150 mm diameter pipes	rm	133.10 (Rupees one hundred thirty three and paise ten) only.

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.59	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 :		
	(a) 75 mm diameter pipes	rm	45.10 (Rupees forty five and paise ten) only.
20.60	Painting with oil type wood preservative of approved brand and manufacture. New work (two or more coats)	sqm	70.30 (Rupees seventy and paise thirty) only.
20.61	Providing and applying two coats 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 recommendations of manufacturer to make the surface fire retardant.	sqm	354.90 (Rupees three hundred fifty four and paise ninety) only.
20.62	Painting with aluminium paint of approved brand and manufacture to give an even shade: New work (two or more coats).	sqm	137.90 (Rupees one hundred thirty seven and paise ninety) only.
20.63	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade: New work (two or more coats).	sqm	112.50 (Rupees one hundred twelve and paise fifty) only.
20.64	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade (two or more coats on new work):	sqm	165.30 (Rupees one hundred sixty five and paise thirty) only.
	<u>DISTEMPER</u>		
20.65	Distempering with dry distemper of approved brand and manufacture of required shade. New work (two or more coats).	sqm	127.20 (Rupees one hundred twenty seven and paise twenty) only.
20.66	Distempering with oil bound washable distemper of approved		

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	brand and manufacture to give an even shade: New work (one or more coats)	sqm	178.70 (Rupees one hundred seventy eight and paise seventy) only.
20.67	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. New work (two or more coats).	sqm	159.50 (Rupees one hundred fifty nine and paise fifty) only.
<u>CEMENT PAINT</u>			
20.68	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade. New work (two or more coats)	sqm	102.10 (Rupees one hundred two and paise ten) only.
<u>WATERPROOF PRIMER</u>			
20.69	Applying one coat of Efflorescence resistant penetrating primer for Raincoat, Newcoat & Heatshield of approved brand and manufacture on wall surface, cement primer of approved brand and manufacture on wall surface.	sqm	103.00 (Rupees one hundred three) only.
20.70	Finishing walls with high performance elastomeric decorative exterior water proofing coating of approved brand and of required shade on new work .	sqm	293.10 (Rupees two hundred ninety three and paise ten) only.
<u>ROOF PAINT</u>			
20.71	Painting two or more coats on G.I sheet with antifungus roof paint of approved brand and manufacture on new work to give an even shade.	sqm	114.10 (Rupees one hundred fourteen and paise ten) only.
<u>ENAMEL</u>			
20.72	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work <i>(two or more coats)</i> .		
a)	General quality	sqm	137.40 (Rupees one hundred thirty seven and paise forty) only.

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
b)	High gloss	sqm	142.90 (Rupees one hundred forty two and paise ninety) only.
<u>EMULSION</u>			
20.73	Wall painting with interior emulsion paint of approved brand and manufacture on new work (<i>two or more coats</i>) to give an even shade.		
a)	Regular interior emulsion like Rangoli deluxe emulsion etc.	sqm	187.10 (Rupees one hundred eighty seven and paise ten) only.
b)	Premium interior emulsion like Velvet touch Luxol silk etc.	sqm	196.80 (Rupees one hundred ninety six and paise eighty) only.
20.74	Wall painting with water and weather proof paint (Latex Emulsion base) on cement works of approved brand and manufacture (ISI/ISO certified) of required shade on new work (two or more coats) to give an even shade .	sqm	152.90 (Rupees one hundred fifty two and paise ninety) only.
20.75	Finishing walls with exterior emulsion of required shade on new work (<i>three or more coats</i>) to give an even shade.		
a)	Regular exterior emulsion like supercote, walmasta etc.	sqm	256.30 (Rupees two hundred fifty six and paise thirty) only.
b)	Premium exterior emulsion like weather shield, weathercote etc.	sqm	369.70 (Rupees three hundred sixty nine and paise seventy) only.
<u>VARNISHING, POLISHING & COAL TARRING</u>			
20.76	Varnishing with varnish of approved brand and manufacture on new work (<i>two or more coats</i>) of glue sizing with varnish over an under coat of flatting varnish.	sqm	186.80 (Rupees one hundred eighty six and paise eighty) only.
20.77	French spirit polishing (two or more coats) on new works including a coat of wood filler :	sqm	424.50 (Rupees four hundred twenty four and paise fifty) only.

20. FINISHING**PAINTING***(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)*

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
20.78	Polishing on wood work with ready made superior quality wax polish of approved brand and manufacture on new work.	sqm	142.30 (Rupees one hundred forty two and paise thirty) only.
20.79	Polishing on wood work with ready made superior quality wax polish of approved brand and manufacture on old work.	sqm	137.60 (Rupees one hundred thirty seven and paise sixty) only.
20.80	Coal tarring two coats using 0.16 and 0.12 litre coal tar per sqm in first and second coat respectively.	sqm	50.90 (Rupees fifty and paise ninety) only.
20.81	Painting two or more coats with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade.	sqm	108.20 (Rupees one hundred eight and paise twenty) only.
20.82	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications.		
	(a) On Steel works	sqm	214.30 (Rupees two hundred fourteen and paise thirty) only.
	(a) On Wood works	sqm	245.20 (Rupees two hundred forty five and paise twenty) only.

21. HORTICULTURE AND LANDSCAPING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
21.01	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing off by spreading and neatly leveling within a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge and/or manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	92.50 (Rupees ninety two and paise fifty) only.
21.02	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	677.10 (Rupees six hundred seventy seven and paise ten) only.
21.03	Supplying and stacking sludge at site including royalty and carriage upto 5 k.m. lead complete (sludge measured in stacks will be reduced by 8% for payment).	cum	458.30 (Rupees four hundred fifty eight and paise thirty) only.
21.04	Supplying and stacking at site dump manure from approved source, including carriage upto 5 k.m. lead complete (manure measured in stacks will be reduced by 8% for payment) :		
	(a) Screened through sieve of I.S. designation 20mm	cum	525.90 (Rupees five hundred twenty five and paise ninety) only.
	(b) Screened through sieve of I.S. designation 16mm .	cum	549.10 (Rupees five hundred forty nine and paise ten) only.
	(c) Screened through sieve of I.S. designation 4.75mm	cum	567.70 (Rupees five hundred sixty seven and paise seventy) only.
21.05	Rough dressing the trenched ground including breaking clods.	100 sqm	108.90 (Rupees one hundred eight and paise ninety) only.
21.06	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100 sqm	317.90 (Rupees three hundred seventeen and paise ninety) only.
21.07	Fine dressing the ground.	100 sqm	248.30 (Rupees two hundred forty eight and paise thirty) only.
21.08	Spreading of sludge, dump manure or/and good earth in required		

21. HORTICULTURE AND LANDSCAPING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	thickness (Cost of sludge, dump manure or/and good earth to be paid separately).	cum	38.30 (Rupees thirty eight and paise thirty) only.
21.09	Mixing earth and sludge or manure in proportion specified or directed.	cum	21.80 (Rupees twenty one and paise eighty) only.
21.10	Grassing with selection No. 1 grass including watering and maintenance of the lawn for 60 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).		
	(a) In rows 5 cm apart in both direction	100 sqm	1097.50 (Rupees one thousand ninety seven and paise fifty) only.
	(a) With grass turf	100 sqm	853.60 (Rupees eight hundred fifty three and paise sixty) only.
21.11	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	2097.90 (Rupees two thousand ninety seven and paise ninety) only.
21.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm 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	3666.40 (Rupees three thousand six hundred sixty six and paise forty) only.
21.13	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clod 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		

21. HORTICULTURE AND LANDSCAPING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	necessary, water and finally fine dressing, leveling etc., including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift upto 1.5m complete (cost of sludge, manure or extra earth to be paid for separately) .	cum	1344.40 (Rupees one thousand three hundred forty four and paise forty) only.
21.14	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 earth 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) .		
	(a) Holes 1.2 m dia and 1.2 m deep	no	660.80 (Rupees six hundred sixty and paise eighty) only.
	(b) Holes 60 cm dia and 60 cm deep	no	93.30 (Rupees ninety three and paise thirty) only.
21.15	Half brick circular tree guard in bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20m below ground bottom two courses laid dry and top three courses in cement mortar 1:6 (1cement: 6 sand) and the intermediate courses being in dry honey comb masonry as per design complete:	per tree guard	5127.90 (Rupees five thousand one hundred twenty seven and paise ninety) only.
21.16	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 riveted 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.	no	4858.80 (Rupees four thousand eight hundred fifty eight and paise eighty) only.
21.17	Making tree guard 53 cm dia. and 1.3 m high as per design from empty coal tar drums supplied free by the department or any		

21. HORTICULTURE AND LANDSCAPING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	other source including providing and fixing 2 nos. M.S. sheet rings 50x0.5mm with rivets complete in all respects including painting inside and outside of tree guard with :		
	(a) A coat of coal tar	no	730.20 (Rupees seven hundred thirty and paise twenty) only.
21.18	Making tree guard 53 cm dia. and 2 m high as per design from empty coal tar drums supplied free by the department or any other source including providing and fixing four legs 40cm long of 30 x 3mm M.S. flat riveted to tree guard and providing and fixing 2 Nos. M.S. sheet rings 50x 0.5 mm with rivets complete in all respects including painting inside and outside of tree guard with :		
	(a) A coat of coal tar	no	1378.60 (Rupees one thousand three hundred seventy eight and paise sixty) only.
21.19	Edging with bricks laid dry length-wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50m:		
	(a) Second Class Bricks	per m length	125.06 (Rupees one hundred twenty five and paise six) only.
21.20	Excavation in dumped stones or malba including stacking of serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50m and lift upto 1.5m disposed material to be neatly dressed.		
		cum	304.90 (Rupees three hundred four and paise ninety) only.
21.21	Excavation in bajri path including stacking of serviceable and unserviceable material lead upto 50 m and lift upto 1.5m disposed material to be neatly dressed.		
		cum	342.10 (Rupees three hundred forty two and paise ten) only.
21.22	Excavation in water bound macadam road including stacking the serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50m and lift upto 1.5 m disposed material to be neatly dressed.		
		cum	421.10 (Rupees four hundred twenty one and paise ten) only.
21.23	Flooding the ground with water including making kiaries and dismantling the same.		
		sqm	4.80 (Rupees four and paise eighty) only.

22. FENCING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
22.01	1.8m high G.I. barbed wire fencing with 2.4m angle iron posts 50 x 50 x 6mm size placed 2.0m apart embedded in cement concrete block 1:3:6 (1 cement : 3 sand : 6 stone aggregate) of size 25 x 25 x 60 cm and using 12 horizontal lines and 2 diagonals barbed wire fixed from post to post with 'U' nails and projecting the angle post 2cm above the top most wire including earthwork complete.	rm	1069.60 (Rupees one thousand sixty nine and paise sixty) only.
22.02	1.8m high G.I. barbed wire fencing with 2.4m jungle heart wood post 30cm minimum dia. placed 2.5m apart using 9 horizontal lines and 2 diagonals barbed wire fixed from post to post with wire nails and projecting the post 2cm above the top most wire including earthwork and coal tarring of post below ground complete .	rm	2087.30 (Rupees two thousand eighty seven and paise thirty) only.
22.03	1.8m high polysteel goat proof fencing with 2.4m angle iron posts 50 x 50 x 6mm size placed 2.0m apart embedded in cement concrete block 1:3:6 (1 cement : 3 sand : 6 stone aggregate) of size 25 x 25 x 60 cm fixing with nails and wire etc. including earthwork complete.	rm	2145.00 (Rupees two thousand one hundred forty five) only.
22.04	1.0m high plastic net fencing with 1.5m angle iron posts 40 x 40 x 6mm size placed at 2.5m apart embedded in cement concrete block 1:3:6 (1 cement : 3 sand : 6 stone aggregate) of size 25 x 25 x 60 cm with necessary fittings including earthwork complete.		
	(a) Perimeter fencing 2MW	rm	964.40 (Rupees nine hundred sixty four and paise forty) only.
	(b) SGP - 16 41" MW	rm	757.80 (Rupees seven hundred fifty seven and paise eighty) only.
22.05	1.2m high steel wire fabric fencing with 1.8m angle iron posts 40 x 40 x 6mm size placed at 2.0m apart embedded in cement concrete block 1:3:6 (1 cement : 3 sand : 6 stone aggregate) of size 25 x 25 x 60 cm with necessary fittings including earthwork complete.		
	(a) Expanded wire mesh 3"	rm	796.30 (Rupees seven hundred ninety six and paise thirty) only.

22. FENCING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Expanded wire mesh 4"	rm	1336.10 (Rupees one thousand three hundred thirty six and paise ten) only.
22.06	Bamboo fencing 1.00m high using seasoned bamboos of 30 mm average diameter quartered and smoothened, in <i>Zawngdaikhalh</i> pattern with specified spacing and strengthened (<i>covered</i>) with two semi-circular sections both at the top and bottom with balli posts at 2 metres intervals and binding with wires including earthwork complete.	rm	118.20 (Rupees one hundred eighteen and paise twenty) only.
22.07	1.8m high G.I. barbed wire fencing with 2.4m angle iron posts 40x40 x 6mm size placed 2.0m apart embedded in cement concrete block 1:3:6 (<i>1 cement : 3 sand : 6 stone aggregate</i>) of size 25 x 25 x 60 cm and using 12 horizontal lines and 2 diagonals barbed wire fixed from post to post with 'U' nails and projecting the angle post 2cm above the top most wire including earthwork complete .	rm	982.40 (Rupees nine hundred eighty two and paise forty) only.
22.08	Providing 1.2m high fencing with 1.6m high angle iron posts(50x50x6)mm at 3 m c/c with 0.4 m embedded in ground in C.C.1:5:10(1 cement:5 coarse sand:10 graded stone aggregate 40mm nominal size)corner,end and every 10th post to be strutted provided with chainlink (meshed)fencing and fixed to iron posts by necessary runner flat and bolts etc. complete including earth work in excavation .	rm	2440.60 (Rupees two thousand four hundred forty and paise sixty) only.
22.09	Extra for applying two coats of synthetic enamel paints over one coat of red oxide zinc primer on angle iron posts and struts, complete in all respects as per drawing and direction of Engineer-in-charge .	rm	104.20 (Rupees one hundred four and paise twenty) only.
22.10	Providing, fabricating and fixing in position at all height "Y" shaped barbed wire fencing, comprising of mild steel angle 40x40x8mm thick "Y" shaped posts, approximately 1.75m long, placed at 2.5m intervals and welded with angle iron post already placed in position including providing 9-horizontal rows and 6 - diagonals, interwoven with horizontal lines, of 12 gauge, 2 ply, 4 points galvanised iron barbed wire approved make, equally spaced and properly alligned, fixed and fitted with GI staples or tiled with binding wire including necessary welding for fixed angle iron posy, complete in all respects as per drawings and direction of Engineer-in-charge (measurement shall be taken for the pattern length as a whole) .	rm	1515.00 (Rupees one thousand five hundred fifteen) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
<u>SURFACE PREPARATION</u>			
23.01	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	12.50 (Rupees twelve and paise fifty) only.
23.02	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.	sqm	18.16 (Rupees eighteen and paise sixteen) only.
23.03	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead :		
	(a) With cement mortar 1:3(1 cement : 3 fine sand)	sqm	399.10 (Rupees three hundred ninety nine and paise ten) only.
	(b) With cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	373.00 (Rupees three hundred seventy three) only.
23.04	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 coal tar to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 metres lead :		
	(a) Door chowkhats	no	1420.50 (Rupees one thousand four hundred twenty and paise fifty) only.
	(b) Window chowkhats	no	759.20 (Rupees seven hundred fifty nine and paise twenty) only.
	(c) Clerestory window chowkhats	no	551.40 (Rupees five hundred fifty one and paise forty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.05	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/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge	sqm	915.79 (Rupees nine hundred fifteen and paise seventy nine) only.
23.06	Providing and fixing wooden cleats of size 100mmx75mmx50mm to doors and windows with approved fittings including removal of old cleats where necessary including painting, polishing or bees waxing to match the existing shade:		
	(a) Teak wood cleats with brass hinges and screws .	no	148.50 (Rupees one hundred forty eight and paise fifty) only.
	(b) 2nd class teak wood cleats with iron hinges and screws.	no	145.60 (Rupees one hundred forty five and paise sixty) only.
23.07	Renewing glass panes, with putty and nails wherever necessary including raking out the old putty:		
	(a) Float Glass panes of thickness 4mm	sqm	1173.40 (Rupees one thousand one hundred seventy three and paise forty) only.
	(b) Float Glass panes of thickness 5.5mm	sqm	1569.50 (Rupees one thousand five hundred sixty nine and paise fifty) only.
23.08	Renewing glass panes and refixing existing wooden fillets:		
	(a) Glass panes of thickness 4mm	sqm	1232.30 (Rupees one thousand two hundred thirty two and paise thirty) only.
	(b) Glass panes of thickness 5.5mm	sqm	1628.40 (Rupees one thousand six hundred twenty eight and paise forty) only.
23.09	Supplying and fixing new wooden fillets wherever necessary:		
	(a) Teak wood fillets	rm	95.30 (Rupees ninety five and paise thirty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Hollock wood fillets.	rm	96.20 (Rupees ninety six and paise twenty) only.
23.10	Renewal of old putty of glass panes (length) .	rm	38.40 (Rupees thirty eight and paise forty) only.
23.11	Refixing old glass panes with putty and nails.	rm	499.00 (Rupees four hundred ninety nine) only.
23.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	no	623.10 (Rupees six hundred twenty three and paise ten) only.
23.13	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	32.72 (Rupees thirty two and paise seventy two) only.
23.14	Extra for making opening or recesses in A.C. corrugated/ semi not more than 1 metre:		
	(a) Those not exceeding 100 square centimetres in area.	no	59.00 (Rupees fifty nine) only.
	(b) Those exceeding 100 square centimetres but not exceeding 400 square centimetres in area.	no	108.70 (Rupees one hundred eight and paise seventy) only.
	(c) Those exceeding 400 square centimetres in area.	no	157.00 (Rupees one hundred fifty seven) only.
23.15	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 :		
	(a) With brick tiles	sqm	94.30 (Rupees ninety four and paise thirty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) With modular brick tiles	sqm	97.10 (Rupees ninety seven and paise ten) only.
23.16	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	kg	5.20 (Rupees five and paise twenty) only.
23.17	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.	rm	109.10 (Rupees one hundred nine and paise ten) only.
23.18	Renewing bottom rail and/or top rubber of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	kg	230.90 (Rupees two hundred thirty and paise ninety) only.
23.19	Renewing W.I. 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.		
	(a) Wheel 50 mm dia. and below.	no	269.20 (Rupees two hundred sixty nine and paise twenty) only.
	(b) Wheel above 50 mm dia.	no	395.70 (Rupees three hundred ninety five and paise seventy) only.
23.20	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kl	149.40 (Rupees one hundred forty nine and paise forty) only.
23.21	Mud mortar made with local clay good earth.	cum	481.60 (Rupees four hundred eighty one and paise sixty) only.
23.22	Brick work with 2nd class bricks in mud mortar	cum	9160.80 (Rupees nine thousand one hundred sixty and paise eighty) only.
23.23	Providing and fixing 25 mm thick shutters for cup board etc. :		

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(i) Panelled or panelled & glazed shutters		
	(a) Teak wood including nickel plated	sqm	2388.40 (Rupees two thousand three hundred eighty eight and paise forty) only.
	(ii) 2 - Glazed shutters :		
	(a) Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	2197.90 (Rupees two thousand one hundred ninety seven and paise ninety) only.
	(b) 1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	1977.00 (Rupees one thousand nine hundred seventy seven) only.
23.24	Providing and fixing curtain rods of 1.25mm thick brass plates with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.		
	(a) 20 mm diameter.	rm	210.10 (Rupees two hundred ten and paise ten) only.
	(b) 25 mm diameter.	rm	234.30 (Rupees two hundred thirty four and paise thirty) only.
23.25	Providing and fixing for posts, purlins, rafters, post plates etc. including cost of iron nails and spikes required and applying wood preservative on all exposed surfaces :		
	(i) Hollock ballies :		
	(a) 80 mm diameter	rm	96.00 (Rupees ninety six) only.
	(b) 100 mm diameter	rm	117.70 (Rupees one hundred seventeen and paise seventy) only.
	(c) 125 mm diameter	rm	129.30 (Rupees one hundred twenty nine and paise thirty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(d) 150 mm diameter	rm	191.20 (Rupees one hundred ninety one and paise twenty) only.
23.26	Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :		
	(a) 150 mm	no	571.70 (Rupees five hundred seventy one and paise seventy) only.
	(b) 125 mm	no	446.30 (Rupees four hundred forty six and paise thirty) only.
	(c) 100 mm	no	411.10 (Rupees four hundred eleven and paise ten) only.
23.27	Providing and fixing bright finished brass double acting spring hinges with necessary screws etc. complete :		
	(a) 150 mm	no	518.60 (Rupees five hundred eighteen and paise sixty) only.
	(b) 125 mm	no	462.40 (Rupees four hundred sixty two and paise forty) only.
	(c) 100 mm	no	389.50 (Rupees three hundred eighty nine and paise fifty) only.
23.28	Providing and fixing bright finished brass flush bolts with necessary screws etc. complete :		
	(a) 250 mm	no	261.70 (Rupees two hundred sixty one and paise seventy) only.
	(b) 150 mm	no	186.20 (Rupees one hundred eighty six and paise twenty) only.
	(c) 100 mm	no	132.50 (Rupees one hundred thirty two and paise fifty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.29	Providing and fixing 30 cm long bright finished finger plates 65x1.6 mm including necessary screws etc. complete.	no	208.60 (Rupees two hundred eight and paise sixty) only.
23.30	Providing and fixing bright finished brass furniture handles.	no	225.90 (Rupees two hundred twenty five and paise ninety) only.
23.31	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, screws etc. to suit shutter thickness complete .	no	364.90 (Rupees three hundred sixty four and paise ninety) only.
23.32	Providing and fixing bright finished brass hard drawn hooks and eyes :		
	(a) 300 mm	no	125.10 (Rupees one hundred twenty five and paise ten) only.
	(b) 250mm	no	104.20 (Rupees one hundred four and paise twenty) only.
	(c) 200 mm	no	105.20 (Rupees one hundred five and paise twenty) only.
	(d) 150mm	no	76.30 (Rupees seventy six and paise thirty) only.
	(e) 100 mm	no	62.30 (Rupees sixty two and paise thirty) only.
23.33	Providing and fixing bright finished brass fan light pivot with necessary screws etc. complete.	no	50.89 (Rupees fifty and paise eighty nine) only.
23.34	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary screws etc. complete.	no	61.40 (Rupees sixty one and paise forty) only.
23.35	Providing and fixing bright finished brass quadrant stay 300mm		

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	long with necessary screws etc. complete.	no	208.50 (Rupees two hundred eight and paise fifty) only.
23.36	Providing and fixing bright finished brass helical door spring (superior quality).	no	562.60 (Rupees five hundred sixty two and paise sixty) only.
23.37	Providing and fixing chromium plated brass butt hinges with necessary screws etc. complete.		
	(a) 125x70x4 mm (ordinary type)	no	231.00 (Rupees two hundred thirty one) only.
	(b) 100x70x4 mm (ordinary type)	no	216.90 (Rupees two hundred sixteen and paise ninety) only.
	(c) 75x65x4 mm (heavy type)	no	214.80 (Rupees two hundred fourteen and paise eighty) only.
	(d) 75x40x2.5 mm (ordinary type)	no	160.20 (Rupees one hundred sixty and paise twenty) only.
	(e) 50x40x2.5 mm (ordinary type)	no	92.00 (Rupees ninety two) only.
23.38	Pointing on brick work with an admixture of white cement, lime putty marble dust and stone dust in proportion $\frac{1}{4}$:1:1:1 ($\frac{1}{4}$ white cement : 1 lime putty : 1 marble dust : 1 stone dust) :		
	(a) Flush pointing	sqm	235.00 (Rupees two hundred thirty five) only.
	(b) Ruled pointing	sqm	243.30 (Rupees two hundred forty three and paise thirty) only.
	(c) Struck or weathered pointing	sqm	282.10 (Rupees two hundred eighty two and paise ten) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.39	Pointing on tile brick work with an admixture of white cement lime marble dust and stone dust in proportion ¼:1:1:1 (¼ white cement : 1 marble dust : 1 stone dust : 1 lime putty) :		
	(a) Flush pointing	sqm	332.10 (Rupees three hundred thirty two and paise ten) only.
	(b) Ruled pointing	sqm	347.20 (Rupees three hundred forty seven and paise twenty) only.
	(c) Struck or weathered pointing	sqm	382.90 (Rupees three hundred eighty two and paise ninety) only.
23.40	White washing with lime to give an even shade :		
	(a) Old work (two or more coats)	sqm	18.50 (Rupees eighteen and paise fifty) only.
	(b) Old work (one or more coats)	sqm	12.70 (Rupees twelve and paise seventy) only.
23.41	White washing with whiting to give an even shade		
	(a) Old work (two or more coats)	sqm	14.20 (Rupees fourteen and paise twenty) only.
	(b) Old work (one or more coats)	sqm	9.00 (Rupees nine) only.
23.42	Colour washing such as green, blue or buff to give an even shade :		
	(a) Old work (two or more coats) with lime :	sqm	20.20 (Rupees twenty and paise twenty) only.
	(b) Old work (two or more coats) with whiting :	sqm	19.70 (Rupees nineteen and paise seventy) only.
	(c) Old work (one or more coats) with lime :	sqm	10.00 (Rupees ten) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.43	Distempering 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	63.40 (Rupees sixty three and paise forty) only.
23.44	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats)	sqm	83.80 (Rupees eighty three and paise eighty) only.
23.45	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	sqm	63.80 (Rupees sixty three and paise eighty) only.
23.46	Painting one or more coats on G.I sheet with antifungus roof paint of approved brand and manufacture on old work to give an even shade.	sqm	72.40 (Rupees seventy two and paise forty) only.
23.47	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 :		
	(a) 75 mm diameter pipes	rm	30.60 (Rupees thirty and paise sixty) only.
	(b) 100 mm diameter pipes	rm	39.80 (Rupees thirty nine and paise eighty) only.
	(c) 150 mm diameter pipes	rm	54.70 (Rupees fifty four and paise seventy) only.
23.48	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 :		
	(a) 75 mm diameter pipes	rm	34.30 (Rupees thirty four and paise thirty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) 100 mm diameter pipes	rm	44.00 (Rupees forty four) only.
	(c) 150 mm diameter pipes	rm	42.30 (Rupees forty two and paise thirty) only.
23.49	Painting with oil type wood preservative of approved brand and manufacture : Old work (one or more coats)	sqm	54.30 (Rupees fifty four and paise thirty) only.
23.50	Coal tarring one coat on old work using 0.12 litre of coal tar per sqm.	sqm	27.00 (Rupees twenty seven) only.
23.51	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work.	sqm	103.90 (Rupees one hundred three and paise ninety) only.
23.52	Wall painting with interior emulsion paint of approved brand and manufacture on old work (<i>one or more coats</i>) to give an even shade.		
	(a) Regular interior emulsion like Rangoli delux emulsion etc.	sqm	76.50 (Rupees seventy six and paise fifty) only.
	b) Premium interior emulsion like Velvet touch luxol silk etc.	sqm	82.00 (Rupees eighty two) only.
23.53	Finishing walls with regular exterior emulsion of required shade on old work (<i>three or more coats</i>) to give an even shade.		
	a) Regular exterior emulsion like Supercote,walmasta etc.	sqm	155.20 (Rupees one hundred fifty five and paise twenty) only.
	b) Premium exterior emulsion like weathercote, weather shield etc.	sqm	281.00 (Rupees two hundred eighty one) only.
23.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.		

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(a) General quality	sqm	91.50 (Rupees ninety one and paise fifty) only.
	(b) High gloss	sqm	99.30 (Rupees ninety nine and paise thirty) only.
23.55	Painting with aluminium paint of approved brand and manufacture to give an even shade : One or more coats on old work.	sqm	88.10 (Rupees eighty eight and paise ten) only.
23.56	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	sqm	63.90 (Rupees sixty three and paise ninety) only.
23.57	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : One or more coats on old work.	sqm	62.80 (Rupees sixty two and paise eighty) only.
23.58	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work.	sqm	97.30 (Rupees ninety seven and paise thirty) only.
23.59	Varnishing with varnish of approved brand and manufacture on old work (<i>one or more coats</i>).	sqm	76.30 (Rupees seventy six and paise thirty) only.
23.60	French spirit polishing : One or more coats on old work.	sqm	211.60 (Rupees two hundred eleven and paise sixty) only.
23.61	Polishing on wood work with ready made wax polish of approved brand and manufacture : Old work	sqm	74.60 (Rupees seventy four and paise sixty) only.
23.62	Re-lettering with black Japan paint of approved brand and manufacture.	letters of 1 cm height	2.90 (Rupees two and paise ninety) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.63	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	sqm	77.10 (Rupees seventy seven and paise ten) only.
23.64	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin :		
	(a) 32 mm dia	no	250.20 (Rupees two hundred fifty and paise twenty) only.
	(b) 40mm dia	no	296.60 (Rupees two hundred ninety six and paise sixty) only.
23.65	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Old work (one or more coats)	sqm	63.90 (Rupees sixty three and paise ninety) only.
23.66	Taking out existing wooden door shutter, repair by cutting, etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge	sqm	203.50 (Rupees two hundred three and paise fifty) only.
23.67	Finishing walls with water proofing cement paint of required shade : Old work (one or more coats) complete.	sqm	85.60 (Rupees eighty five and paise sixty) only.
23.68	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gmn per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	lit	0.40 (Paise forty) only.

23. REPAIR OF BUILDINGS

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
23.69	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge	no	256.20 (Rupees two hundred fifty six and paise twenty) only.
23.70	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.	sqm	85.30 (Rupees eighty five and paise thirty) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
24.01	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.		
	(a) Nominal concrete 1:3:6 or richer mix	cum	1085.10 (Rupees one thousand eighty five and paise ten) only.
	(b) Nominal concrete 1:4:8 or leaner mix	cum	654.20 (Rupees six hundred fifty four and paise twenty) only.
24.02	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.		
		cum	1602.16 (Rupees one thousand six hundred two and paise sixteen) only.
24.03	Demolishing R.B. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead :		
		cum	1403.00 (Rupees one thousand four hundred three) only.
24.04	Extra for cutting reinforcement bars 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	672.00 (Rupees six hundred seventy two) only.
24.05	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work .		
		kg	5.60 (Rupees five and paise sixty) only.
24.06	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:		
	(a) In cement mortar	cum	885.90 (Rupees eight hundred eighty five and paise ninety) only.
24.07	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured) :		
	(a) From brick work in cement mortar :	1000 nos	3045.90 (Rupees three thousand forty five and paise ninety) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
24.08	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead :		
	(a) In cement mortar	cum	1057.20 (Rupees one thousand fifty seven and paise twenty) only.
24.09	Dismantling dressed stone work ashlar face stone work, marble work manually/ by mechanical means or precast concrete work including stacking of serviceable and disposal of unserviceable material within 50 metres lead :		
	(a) In cement mortar	cum	1234.34 (Rupees one thousand two hundred thirty four and paise thirty four) only.
24.10	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured) :		
	(a) In cement mortar	cum	306.30 (Rupees three hundred six and paise thirty) only.
24.11	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :		
	(a) Of area 3 sq. metres and below	no	186.69 (Rupees one hundred eighty six and paise sixty nine) only.
	(b) Of area beyond 3 sq. metres	no	262.70 (Rupees two hundred sixty two and paise seventy) only.
24.12	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:		
	(a) Of area 3 sq. metres and below	no	72.00 (Rupees seventy two) only.
	(b) Of area beyond 3 sq. metres	no	97.30 (Rupees ninety seven and paise thirty) only.
24.13	Dismantling wood work in frames, trusses, purlins and rafters upto 10 metres span and 5 metres height including stacking the material		

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	within 50 metres lead:		
	(a) Of sectional area 40 square centimetres and above.	cum	2240.00 (Rupees two thousand two hundred forty) only.
	(b) Of sectional area below 40 square centimetres.	rm	8.90 (Rupees eight and paise ninety) only.
24.14	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :		
	(a) Of sectional area 40 square centimetres and above.	cum/m span	404.80 (Rupees four hundred four and paise eighty) only.
	(b) Of sectional area below 40 square centimetres.	m/m span	1.20 (Rupees one and paise twenty) only.
24.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres :		
	(a) Of sectional area 40 square centimetres and above.	cum/m height	526.80 (Rupees five hundred twenty six and paise eighty) only.
	(b) Of sectional area below 40 square centimetres.	rm/m height	2.00 (Rupees two) only.
24.16	Dismantling Steel work in single section including dismembering and stacking within 50 meters lead in :		
	(a) R.S. Joists	kg	1.80 (Rupees one and paise eighty) only.
	(b) Channels, angles, tees and flats	kg	1.30 (Rupees one and paise thirty) only.
24.17	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	3.00 (Rupees three) only.
24.18	Dismantling steel work in built-up sections without dismembering and stacking within 50 metres lead .	kg	1.90 (Rupees one and paise ninety) only.
24.19	Extra for dismantling trusses, rafters, purlins etc. of steel work for		

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	every additional span of one metre or part thereof beyond 10 metres :	kg/m span	0.40 (Paise forty) only.
24.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	kg/m height	0.40 (Paise forty) only.
24.21	Extra for marking of structural steel work required to be re-erected.	kg/m height	2.80 (Rupees two and paise eighty) only.
24.22	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
	(a) For thickness of tiles 10 mm to 25 mm	sqm	35.80 (Rupees thirty five and paise eighty) only.
	(b) For thickness of tiles above 25mm and upto 40mm	sqm	55.40 (Rupees fifty five and paise forty) only.
24.23	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead.	cum	553.10 (Rupees five hundred fifty three and paise ten) only.
24.24	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	121.70 (Rupees one hundred twenty one and paise seventy) only.
24.25	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	51.30 (Rupees fifty one and paise thirty) only.
24.26	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of:		
	(a) G.S. Sheet	sqm	83.00 (Rupees eighty three) only.
	(b) Asbestos sheet	sqm	40.80 (Rupees forty and paise eighty) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
24.27	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	113.50 (Rupees one hundred thirteen and paise fifty) only.
24.28	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	99.50 (Rupees ninety nine and paise fifty) only.
24.29	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	29.20 (Rupees twenty nine and paise twenty) only.
24.30	Dismantling wooden ballies in posts and struts including stacking within 50 metres lead.	rm	8.80 (Rupees eight and paise eighty) only.
24.31	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of :		
	(a) T ' or ' L ' iron or pipe	no	247.71 (Rupees two hundred forty seven and paise seventy one) only.
	(b) R.C.C.	no	343.40 (Rupees three hundred forty three and paise forty) only.
24.32	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.	no	46.40 (Rupees forty six and paise forty) only.
24.33	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	16.90 (Rupees sixteen and paise ninety) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
24.34	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.	sqm	30.60 (Rupees thirty and paise sixty) only.
24.35	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	sqm	37.20 (Rupees thirty seven and paise twenty) only.
24.36	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :		
	(a) Upto 10 mm thick	sqm	32.10 (Rupees thirty two and paise ten) only.
	(b) Thickness above 10 mm upto 25 mm	sqm	40.90 (Rupees forty and paise ninety) only.
	(c) Thickness above 25 mm upto 40 mm	sqm	52.70 (Rupees fifty two and paise seventy) only.
24.37	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead:		
	(a) Thickness upto 40 mm	sqm	139.80 (Rupees one hundred thirty nine and paise eighty) only.
	(b) Thickness above 40 mm upto 75 mm	sqm	208.30 (Rupees two hundred eight and paise thirty) only.
24.38	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.	rm	30.00 (Rupees thirty) only.
24.39	Dismantling including stacking of serviceable material and disposal of unserviceable material within 50metres lead :		
	(a) Water bound macadam road	sqm	116.80 (Rupees one hundred sixteen and paise eighty) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(b) Bituminous road	sqm	211.40 (Rupees two hundred eleven and paise forty) only.
24.40	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, including stacking of pipes within 50 metres lead :		
	(a) 15 mm to 40 mm nominal bore	rm	97.50 (Rupees ninety seven and paise fifty) only.
	(b) Above 40 mm nominal bore	rm	137.40 (Rupees one hundred thirty seven and paise forty) only.
24.41	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	no	693.70 (Rupees six hundred ninety three and paise seventy) only.
24.42	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 :		
	(a) 120 x 120 cm (outside to outside)	no	477.60 (Rupees four hundred seventy seven and paise sixty) only.
	(b) 210 x 120 cm (outside to outside)	no	735.20 (Rupees seven hundred thirty five and paise twenty) only.
	(c) 320 x 120 cm (outside to outside)	no	1036.90 (Rupees one thousand thirty six and paise ninety) only.
24.43	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	24.80 (Rupees twenty four and paise eighty) only.

24. DISMANTLING DEMOLISHING

(Item rates are including GST, loading, unloading and transportation for a lead of 5km within Aizawl)

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
24.44	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-in-charge.	sqm	31.60 (Rupees thirty one and paise sixty) only.
24.45	Dismantling W.C. Pan of all sizes including disposal of dismantled materials all complete as per directions of Engineer-in-Charge.	sqm	80.40 (Rupees eighty and paise forty) only.
24.46	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	sqm	36.20 (Rupees thirty six and paise twenty) only.

GROUP 'C'

GENERAL INFORMATION

1 : CO-EFFICIENTS FOR COMPUTATION OF UNIT REQUIREMENTS

A : Cement Works.

Sl no	Items of Work	Qty.	Materials Required					
			Cement	Fine Sand	Coarse Sand	Aggregates		
						10mm	20mm	40mm
tonne	m ³	m ³	m ³	m ³	m ³			
Cement Mortar :								
1	1 : 1	1 m ³	1.02	0.71	-	-	-	-
2	1 : 2	1 m ³	0.68	0.95	-	-	-	-
3	1 : 3	1 m ³	0.51	1.07	-	-	-	-
4	1 : 4	1 m ³	0.38	1.07	-	-	-	-
5	1 : 5	1 m ³	0.31	1.07	-	-	-	-
6	1 : 6	1 m ³	0.25	1.07	-	-	-	-
White Cement Mortar :								
			White Cement	Marble dust	-	-	-	-
			MT	m ³	-	-	-	-
7	1 : 2	1 m ³	0.68	0.95	-	-	-	-
8	1 : 3	1 m ³	0.51	1.07	-	-	-	-
9	1 : 5	1 m ³	0.31	1.07	-	-	-	-
Lime Mortar :								
			Unslaked lime	Surkhi	Fine Sand	-	-	-
			MT	m ³	m ³	-	-	-
10	1 : 1 : 1	1 m ³	0.301	0.475	0.475	-	-	-
11	1 : 2	1 m ³	0.301	0.95	-	-	-	-
Cement Mortar :								
			Cement	Course Sand		-	-	-
			MT	m ³		-	-	-
12	1 : 2 (1cement : 2 course sand)	1 m ³	0.68	0.95		-	-	-
13	1 : 3 (1cement : 3 course sand)	1 m ³	0.51	1.07		-	-	-
14	1 : 4 (1cement : 4 course sand)	1 m ³	0.38	1.07		-	-	-
15	1 : 5 (1cement : 5 course sand)	1 m ³	0.31	1.07		-	-	-
16	1 : 6 (1cement : 6 course sand)	1 m ³	0.25	1.07		-	-	-
17	1 : 2 (1cement : 2 stone dust)	1 m ³	0.68	0.95		-	-	-
Cement Lime Mortar :								
(Cement : Lime putty : Fine sand)			Cement	Unslaked lime	Fine Sand	-	-	-
			MT	MT	m ³	-	-	-
18	1 : 1 : 6	1 m ³	0.25	0.113	1.07	-	-	-
19	1 : 2 : 9	1 m ³	0.17	0.151	1.07	-	-	-
(Cement : Lime putty : Course sand)								
			Cement	Unslaked lime	Course Sand	-	-	-
			MT	MT	m ³	-	-	-
20	1 : 1 : 6	1 m ³	0.25	0.113	1.07	-	-	-
(White Cement : Lime putty : Stone dust : Marble dust)								
			White Cement	Unslaked lime	Stone dust	Marble Dust	-	-
			MT	MT	m ³	m ³	-	-
21	1/4 : 1 : 1 : 1	1 m ³	0.16	0.279	0.44	0.44	-	-

Sl no	Items of Work	Qty.	Materials Required					
			Cement	Fine Sand	Coarse Sand	Aggregates		
						10mm	20mm	40mm
tonne	m ³	m ³	m ³	m ³	m ³			
	Concrete : (Cement : Course sand : Stone aggregates)							
22	1 : 1.5 : 3 with 10mm nominal size aggregate.	1 m ³	0.40		0.425	0.85	-	-
23	1 : 1.5 : 3 with 20mm nominal size aggregate.	1 m ³	0.40		0.425	0.28	0.57	-
24	1 : 2 : 4 with 10mm nominal size aggregate.	1 m ³	0.32		0.445	0.89	-	-
25	1 : 2 : 4 with 20mm nominal size aggregate.	1 m ³	0.32		0.445	0.22	0.67	-
26	1 : 2 : 4 with 40mm nominal size aggregate.	1 m ³	0.32		0.445	0.11	0.22	0.52
27	1 : 3 : 6 with 20mm nominal size aggregate.	1 m ³	0.22		0.47	0.24	0.70	-
28	1 : 3 : 6 with 40mm nominal size aggregate.	1 m ³	0.22		0.47	-	0.24	0.65
29	1 : 4 : 8 with 40mm nominal size aggregate.	1 m ³	0.17		0.47	-	0.24	0.65
30	1 : 5 : 10 with 40mm nominal size aggregate.	1 m ³	0.13		0.47	-	0.24	0.65
	6mm thick plaster :							
31	1 : 3	10 m ²	0.0367	0.077				
32	1 : 4	10 m ²	0.0274	0.077				
	12mm thick plaster :							
33	1 : 3	10 m ²	0.0734	0.1541				
34	1 : 4	10 m ²	0.0547	0.1541				
35	1 : 5	10 m ²	0.0446	0.1541				
36	1 : 6	10 m ²	0.0360	0.1541				
	15mm thick plaster :							
37	1 : 3	10 m ²	0.0877	0.1840				
38	1 : 4	10 m ²	0.0654	0.1840				
39	1 : 5	10 m ²	0.0533	0.1840				
40	1 : 6	10 m ²	0.0430	0.1840				
	20mm thick plaster :							
41	1 : 3	10 m ²	0.1142	0.2397				

Sl no	Items of Work	Qty.	Materials Required						
			Cement	Fine Sand	Coarse Sand	Aggregates			
						10mm	20mm	40mm	
						m ³	m ³	m ³	
tonne	m ³	m ³	m ³	m ³	m ³				
42	1 : 4	10 m ²	0.0851	0.2397					
43	1 : 5	10 m ²	0.0694	0.2397					
44	1 : 6	10 m ²	0.0560	0.2397					
45	Floating coat of neat cement	10 m ²	0.02						
46	Neat Cement Punning	10 m ²	0.022						
47	Applying a hot coat of bitumen (penetration 80/100 or equivalent @ 1.7 kg/sqm on D.P.C	10 m ²	Bitumen 80/100	K.oil	Fire wood				
			MT	litres	qtl				
			0.017	1.23	0.07				

B : Brick Works.

Sl no	Items of Work	Qty	Materials Required		
			Cement	Fine Sand	Brick
			tonne	m3	nos
Full brick work in :					
1	C.M 1 : 3	1 m ³	0.1275	0.2675	494
2	C.M 1 : 4	1 m ³	0.0950	0.2675	494
3	C.M 1 : 6	1 m ³	0.0625	0.2675	494
Half bick work in :					
4	C.M 1 : 3	10 m ²	0.1428	0.2996	565
5	C.M 1 : 4	10 m ²	0.1064	0.2996	565
6	C.M 1 : 6	10 m ²	0.0700	0.2996	565
Brick on edge in :					
7	C.M 1 : 3	10 m ²	0.0923	0.1937	377
8	C.M 1 : 4	10 m ²	0.0688	0.1937	377
Honey combed half bick work in :					
9	C.M 1 : 3	10 m ²	0.0880	0.1846	341
10	C.M 1 : 4	10 m ²	0.0656	0.1846	341
11	Dry brick pitching half brick thick	10 m ²			645
Pointing on brick work in C.M 1 : 3 :					
12	Flush pointing	10 m ²	0.0153	0.0321	
13	Ruled pointing	10 m ²	0.0153	0.0321	
14	Struck or weathered pointing	10 m ²	0.0153	0.0321	
15	Raised and cut pointing	10 m ²	0.0235	0.0492	
Pointing on brick flooring in C.M 1 : 3 :					
16	Flush pointing	10 m ²	0.0102	0.0214	
17	Ruled pointing	10 m ²	0.0102	0.0214	
Pointing on brick flooring in C.M 1 : 4 :					
18	Flush pointing	10 m ²	0.0076	0.0214	
19	Ruled pointing	10 m ²	0.0076	0.0214	

C : Stone Works.

Sl no	Items of Work	Quantity	Materials Required				
			Cement	Fine Sand	Masonry Stone	T & B Stone	
			tonne	m3	m3	m3	
Regular coursed rubble masonry in :							
1	C.M 1 : 3	1 m ³	0.153	0.321	1.21	0.16	
2	C.M 1 : 4	1 m ³	0.114	0.321	1.21	0.16	
3	C.M 1 : 6	1 m ³	0.075	0.321	1.21	0.16	
Coursed rubble masonry in :							
4	C.M 1 : 3	1 m ³	0.153	0.321	1ST SORT 1.10	0.16	
5	C.M 1 : 4	1 m ³	0.114	0.321	1.10	0.16	
6	C.M 1 : 6	1 m ³	0.075	0.321	1.10	0.16	
2nd SORT							
7	C.M 1 : 3	1 m ³	0.1683	0.3531	0.60	0.16	Spalls 0.50m ³
8	C.M 1 : 4	1 m ³	0.1683	0.3531	0.60	0.16	0.50m ³

9	C.M 1 : 6	1 m ³	0.0825	0.3531	0.60	0.16	0.50m ³
10	Random rubble masonry in :						
	C.M 1 : 3	1 m ³	0.1683	0.3531	1.00	0.16	
11	C.M 1 : 4	1 m ³	0.1254	0.3531	1.00	0.16	
12	C.M 1 : 6	1 m ³	0.0825	0.3531	1.00	0.16	

Sl no	Items of Work	Quantity	Materials Required			
			Cement	Fine Sand	Masonry Stone	T & B Stone
			tonne	m ³	m ³	m ³
13	Stone pitching in C.M 1 : 3	1 m ³	0.1683	0.3531	1.00	
14	Dry coursed masonry	1 m ³			1.21	0.16
15	Dry stone pitching 22.5 cm thk	10 m ²			2.25	
	Pointing on stone in C.M 1 : 4 :					
16	Flush pointing	10 m ²	0.0117	0.0246		
17	Ruled	10 m ²	0.0117	0.0246		
18	Raised and cut	10 m ²	0.0194	0.0407		

D : Water Proofing :

Sl no	Items of Work	Rate	Unit	Proportion
1	Applying single coated cement slurry with Dr Fixit Super Latex chemical	0.08	Kg/sqm	<i>Proportion = 1:4:7 (1 Latex : 4 water : 7 cement)</i>
2	Applying double coated cement slurry with Dr Fixit Super Latex chemical	0.158	Kg/sqm	<i>Proportion = 1:4:7 (1 Latex : 4 water : 7 cement)</i>
Curing period				
3	Water Proof treatment of sunken portion of WCs, bathroom etc, .			
	(i) 1st layer of cement slurry with Armourette/tapecrete	0.488	Kg/sqm	<i>First layer to be allowed to air cure for 4 hrs.</i>
		0.253	Kg/sqm	
	(ii) 2nd layer of cement slurry with Armourette/tapecrete	0.242	Kg/sqm	<i>2nd layer to be air cured for 4 hrs. followed by water curing of 48hrs</i>
		0.126	Kg/sqm	
4	Water Proof treatment on Roof Slabs			
	(i) 1st layer of cement slurry with Armourette/tapecrete	0.488	Kg/sqm	
		0.253	Kg/sqm	
	(ii) 2nd layer with Fibre glass cloth when the 1st layer is still green	-	-	<i>Fibre glass cloth manufactured by M/s The Structural Water Proofing Co. Overlaps of fibre cloth should not be less than 10cm.</i>
		-	-	
	(iii) 3rd layer of 1.5mm thickness consisting of cement slurry with Amourcrete or tapecrete	1.289	Kg/sqm	<i>This will be allowed to air cure for 4hrs. Followed by water curing for 48 hrs . The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around .</i>
	(iv) 4th and final layer of brick tiling with cement mortar	0.670	Kg/sqm	
5	PIDI PROOF LW Chemical	0.40%	By weight	On PCC/RCC 1:2:4 for water proofing
6	Dr. Fixit PIDIFIN-2K (single coat)	0.925	Kg/sqm	For water tank, basement, terraces etc.
7	Dr. Fixit PIDIFIN-2K (double coat)	1.85	Kg/sqm	-
8	Dr.Fixit Pidicrete Multipurpose Binder (MPB)	0.74	litre/sqm	For existing reinforcement and cement concrete for improving structural bonding of old and new concrete .

E : Painting Works:

Sl no	Items of Work	Quantity	Materials	Required quantity	Unit
1	White washing with lime on new work (three or more coats)	10 m ²	Lime	3.00	kg
2	White washing with lime on old work (two or more coats)	10 m ²	Lime	2.00	kg
3	White washing with lime on old work (one or more coats)	10 m ²	Lime	1.00	kg
4	One coat of cement primer	10 m ²	Cement primer	0.70	litre
5	One coat of distemper primer	10 m ²	Distemper primer	0.81	litre
6	Distemping (two or more coats)	10 m ²	Distemper	1.50	kg
7	Distemping (one or more coats)	10 m ²	Distemper	1.00	kg
8	Water proof cement paint (three or more coats)	10 m ²	Water proof paint	5.47	kg
9	Water proof cement paint (one or more coats)	10 m ²	Water proof paint	2.20	kg
10	Priming coat on wood / plywood	10 m ²	Wood primer	0.75	litre
11	Zinc chromate priming coat on steel work	10 m ²	Zinc chr. primer	0.54	litre
12	Priming coat on plaster surface	10 m ²	Ready mix primer	0.84	litre
13	Roof paint on G.I sheet (new work)	10 m ²	Roof paint	0.80	litre
14	Roof paint on G.I sheet (old work)	10 m ²	Roof paint	0.46	litre
15	Synthetic enamel paint on new work (two or more coats)	10 m ²	Enamel paint	1.00	litre
16	Synthetic enamel paint on old work (one or more coats)	10 m ²	Enamel paint	0.61	litre
17	Plastic emulsion paint on new work (two or more coats)	10 m ²	Pl emulsion paint	1.21	litre
18	Plastic emulsion paint on old work (one or more coats)	10 m ²	Pl emulsion paint	0.73	litre
19	Varnishing on new work (two or more coats)	10 m ²	Copal varnish	1.86	litre
20	Varnishing on old work (one or more coats)	10 m ²	Copal varnish	0.70	litre
21	Polishing on wood new work	10 m ²	Wax polish	0.50	kg
22	Polishing on wood old work	10 m ²	Wax polish	0.25	kg
23	Coal tarring two coats	10 m ²	Coal tar	2.80	litre
24	Anti corrosive bitumastic paint	10 m ²	Bitumastic paint	0.95	litre
25	Epoxy paint on steel work	10 m ²	Epoxy paint	1.25	litre

E : Earthwork.

Sl no	Items of Work	Quantity	Materials Required		
			Special Gelatine	Detonator	Safety Fuse
			kg	nos	coil
Earthwork in excavation in formation cutting :					
1	Soft rock	1 m3	0.250	1.20	0.100
2	Hard rock	1 m3	0.390	1.40	0.130
Earthwork in excavation in foundation trenches :					
3	Soft rock	1 m3	0.335	1.30	0.100
4	Hard rock	1 m3	0.535	1.40	0.125

F : General Information on Septic Tank :

RECOMMENDED SIZES OF SEPTIC TANKS FOR 20 USERS

No. of users	Length (m)	Breadth (m)	Liquid depth (Cleaning interval)	
			1 year (m)	2 year (m)
5	1.5	0.75	1.0	1.05
10	2.0	0.90	1.0	1.40
15	2.0	0.90	1.3	2.00
20	2.3	1.10	1.3	1.80

RECOMMENDED SIZES OF SEPTIC TANKS FOR RESIDENTIAL COLONIES

No. of users	Length (m)	Breadth (m)	Liquid depth (Cleaning interval)	
			1 year (m)	2 year (m)
50	5.0	2	1.0	1.24
100	7.5	2.65	1.0	1.24
150	10.0	3.00	1.0	1.24
200	12.0	3.30	1.0	1.24
300	15.0	4.0	1.0	1.24

RECOMMENDED SIZES OF SEPTIC TANKS FOR HOSTELS AND BOARDING SCHOOLS

No. of users	Length (m)	Breadth (m)	Liquid depth (Cleaning interval)	
			1 year (m)	2 year (m)
50	5.0	1.6	1.3	1.4
100	5.7	2.10	1.4	1.7
150	7.7	2.40	1.4	1.7
200	8.9	2.70	1.4	1.7
300	10.7	3.3	1.4	1.7

Notes :

- (i) A provision of 300mm should be made for free board .
- (ii) The sizes of septic tanks are based on certain assumptions. Exact calculation is should be made.
- (iii) For population over 100, the tank may be divided into independent parallel chambers for ease of maintenance and cleaning.
- (iv) Septic tank shall have minimum width of 750mm, minimum depth of one metre below water level and a minimum liquid capacity of 1000 litres.
- (v) Per capita of suspended solids entering the tank may be taken as 70gm/day .
- (vi) The capacity required for sludge digestion is 0.033 m³ per capita at 25° C .
- (vii) Volume of digested sludge is normally 0.00021 m³ per capita per day .
- (viii) The surface area of the sedimentation tank will be 0.92 m³ for every 10 litres per minute of peak flow rate at a temperature of 25°C.

STEEL COEFFICIENT FOR R.C.C WORKS
(For estimation purpose only)

SI No	Members	Requirement of steel per cum. of concrete
1	Foundations	100.00 kg
2	Columns	310.00 kg
3	Beams	270.00 kg
4	Slabs	100.00 kg
5	Stairs	120.00 kg
6	Fins, chajjas, etc.	80.00 kg

METRIC STANDARD TABLES

Nominal weight of Galvanised Corrugated Iron Sheets

Depth of Corrugation - 18 mm nominal

Pitch 75 mm nominal

Class IV 375 g of Zinc (spelter) Coating per sq. m . Both sides Inclusive

Thickness of Sheet				1.00 mm (20 B.G)			0.80 mm (22 B.G)			0.63 mm (24 B.G)		
Weight per unit area				8.22 kg/sq m			6.66 kg/sq m			5.32 kg/sq m		
Size m x m	Area in sq. m	No. of corrugation		kg per Sheet	Sheet per Bundle	kg per Bundle	kg per Sheet	Sheet per Bundle	kg per Bundle	kg per Sheet	Sheet per Bundle	kg per Bundle
1.8 x 0.9	1.62	10		13.32	8	106.6	10.79	10	107.9	8.62	12	103.4
2.2 x 0.9	1.98	10		16.28	7	114.0	13.19	8	105.5	10.53	10	105.3
2.5 x 0.9	2.25	10		18.50	6	111.0	14.98	7	104.9	11.97	9	107.7
2.8 x 0.9	2.52	10		20.71	5	104.0	16.78	6	100.7	13.41	8	107.3
3.0 x 0.9	2.70	10		22.19	5	111.0	17.98	6	107.9	14.35	7	100.5
3.6 x 0.9	3.24	10		26.63	-	-	21.58	-	-	17.24	-	-

1.8 x 0.75	1.35	8		11.10	9	99.9	8.98	12	107.9	7.18	14	100.5
2.2 x 0.75	1.65	8		13.56	8	108.5	10.99	10	109.9	8.78	12	105.4
2.5 x 0.75	1.75	8		15.41	7	107.9	12.48	9	112.4	9.98	10	99.8
2.8 x 0.75	2.10	8		17.26	6	103.6	13.99	8	111.9	11.17	9	100.5
3.0 x 0.75	2.28	8		18.50	5	92.5	14.98	7	104.9	11.97	8	95.8
3.6 x 0.75	2.70	8		22.19	-	-	17.97	-	-	14.36	-	-

Weight in kg per square metre of Mild Steel Plates of different thickness -

Thickness mm	3	4	5	6	8	10	12	14	16	18	20
Weight kg/sq m	23.55	31.4	39.25	47.1	62.8	78.5	94.2	109.9	125.6	141.3	157.0
Thickness mm	22	25	28	32	36	40	45	50	56	63	70
Weight kg/sq m	172.7	195.2	219.8	251.2	282.6	314.0	353.2	392.5	439.6	494.5	549.5

METRIC STANDARD TABLES

ROLLED STEEL TEE

DIMENSIONS AND PROPERTIES

Size	Wt. per	Sectional	Thickness		C.G.	Moment of Inertia		Radii of gyration		Modulii of section	
	metre	Area	Flange	Web	from Back						
					Cxx	Ixx	Iyy	Rxx	Ryy	Zxx	Zyy
mm	kg	mm ²	mm	mm	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
20 x 20	0.9	1.13	3.0	3.0	0.60	0.40	0.20	0.59	0.39	0.30	0.20
30 x 30	1.4	1.75	3.0	3.0	0.83	1.40	0.60	0.89	0.57	0.60	0.40
40 x 40	3.5	4.48	6.0	6.0	1.20	6.30	3.00	1.18	0.82	2.20	1.50
50 x 50	4.5	5.70	6.0	6.0	1.44	12.70	5.90	1.50	1.02	3.60	2.40
60 x 60	5.4	6.90	6.0	6.0	1.67	22.50	10.10	1.81	1.21	5.20	3.40
80 x 80	9.6	12.25	8.0	8.0	2.23	71.20	32.30	2.41	1.62	12.30	8.10
100 x 100	15.0	19.10	10.0	10.0	2.79	173.80	79.90	3.02	2.05	24.10	16.00
150 x 150	22.8	29.08	10.0	10.0	3.95	603.80	267.50	4.56	3.03	54.60	35.70
75 x 150	15.3	19.49	9.0	8.4	1.62	96.20	230.20	2.22	3.44	16.40	30.10
100 x 200	20.0	25.47	9.0	7.8	1.91	193.80	497.30	2.67	4.42	24.00	49.30
125 x 250	27.4	34.85	9.7	8.8	2.37	415.40	1005.80	3.45	5.37	41.00	79.90
150 x 250	29.4	37.42	10.6	7.6	2.66	573.70	1096.80	3.92	5.41	46.50	87.70
100 x 50	8.1	10.37	10.0	5.8	3.03	99.00	9.60	3.09	0.96	14.20	3.80
150 x 75	15.7	19.96	11.6	8.0	4.75	450.20	37.00	4.75	1.36	43.90	9.90
200 x 165	28.4	36.22	12.5	8.0	4.78	1267.80	358.20	5.92	3.15	83.30	43.30
250 x 180	37.5	47.75	14.1	9.2	6.40	2774.40	532.00	7.62	3.34	149.20	59.10
50 x 50	4.0	5.11	6.4	4.0	1.19	9.90	6.40	1.39	1.12	2.60	2.50
75 x 80	7.1	9.04	6.8	4.8	1.72	41.90	27.60	2.15	1.75	7.20	6.90
100 x 100	12.7	16.16	10.8	5.7	2.13	116.60	75.00	2.69	2.15	14.80	15.00
75 x 50	3.5	4.50	4.6	3.0	2.00	24.80	4.60	2.35	1.01	4.50	1.80
87.5 x 50	4.0	5.14	4.8	3.2	2.50	39.00	4.80	2.75	0.97	6.20	1.90
100 x 60	5.0	6.32	5.0	3.4	2.81	60.50	8.60	3.17	1.17	8.80	2.90
112.5 x 80	6.4	8.14	5.0	3.7	3.01	101.60	20.20	3.53	1.58	12.30	5.10

Effective cross-sectional area and Mass of deformed bars and wires

Nominal size	Cross-Sectional	Mass per	Remarks
6	28.3	0.222	THESE ARE AS PER CLAUSE 6.2 OF IS 1786
7	38.5	0.302	
8	50.3	0.395	
10	78.6	0.617	
12	113.1	0.888	
16	201.2	1.58	
18	254.6	2.00	
20	314.3	2.47	
22	380.3	2.98	
25	491.1	3.85	
28	616.0	4.83	
32	804.6	6.31	
36	1018.3	7.99	
40	1257.2	9.85	
45	1591.1	12.50	
50	1964.3	15.42	

METRIC STANDARD TABLES

MILD STEEL FLATS

Weight in kg per running metre of M.S. flats Bars of Different Breadth and Thickness

Breadth in mm	Thickness in millimetre (mm)													
	5.0	5.5	6.0	7.0	8.0	9.0	10.0	11.0	12.0	14.0	16.0	18.0	20.0	22.0
12	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.1
16	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.8	2.0	2.3	2.5	2.8
20	0.8	0.9	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.8	3.1	3.5
25	1	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.5	3.9	4.3
32	1.3	1.4	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.5	4.0	4.5	5.0	5.5
40	1.6	1.7	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.4	5.0	5.7	6.3	6.9
50	2.0	2.2	2.4	2.7	3.1	3.5	3.9	4.3	4.7	5.5	6.3	7.1	7.8	8.6
63	2.5	2.7	3.0	3.5	4.0	4.5	4.9	5.4	5.9	6.9	7.9	8.9	9.9	10.9
80	3.1	3.5	3.8	4.4	5.0	5.7	6.3	6.9	7.5	8.8	10.0	11.3	12.6	13.8
100	3.9	4.3	4.7	5.5	6.3	7.1	7.8	8.6	9.4	11.0	12.6	14.0	15.7	17.5
125	4.9	5.4	5.9	6.9	7.8	8.8	9.8	10.8	11.8	13.7	15.7	17.7	19.6	21.6
160	6.3	6.9	7.5	8.8	10.0	11.3	12.6	13.8	15.1	17.6	20.1	22.6	25.1	27.6
200	7.8	8.6	9.4	11.0	12.6	14.1	15.7	17.3	18.8	22.0	25.1	28.3	31.4	34.5

Cost Indices over/below Aizawl for various Districts

Sl No	Division	% over/below
1	Kolasib	-1.59
2	Lawngtlai	8.18
3	Lunglei	7.22
4	Mamit	2.70
5	Siaha	15.42
6	Serchhip	3.73
7	Champhai	5.49