

STANDARD ESTIMATE FOR CONSTRUCTION OF 1/1080 MT CAPACITY PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS

LEADS & RATES OF MATERIALS

Based on PWD SSR 2021-22

S.N.	MATERIAL & LOCATION	UNIT	Dist. In KM	Actual Lead charges	INITIAL	LEAD DIFF	Pay load Factor	rate/unit	Rate For Supply		285.00 1.10
1	Natural Sand	CU M	0.00	0	0.00	0.00	1.00	0.00		313.5	
	crush Sand	CU M	0.00	0	0.00	0.00	1.00	0.00			
2	METAL UPTO 40MM crushed	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00	Lead per Cu.M.	
3	METAL ABOVE 40 MM Road	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00	Lead per Cu.M.	
4	RUBBLE	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00	Lead per Cu.M.	
5	BRICKS	Cum	0.00	0	0.00	0.00	1.00	0.00		Lead per 475 Nos.	
	(475 bricks per Cum)475*0.63815			0		0.00	#DIV/0!	0.00			
6	HARD MURUM/Soft Murumn	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00	Lead per Cu.M.	
7	Royalty	1		0							
8	Cement	MT	0	0	0.00	0.00	9.00	0.00		Lead per bag	
9	Steel	MT	0	0	0.00	0.00	9.00	0.00		Lead per M.T.	
10	Bitumen	kg	0.00	0.00	0.00	0.00	1.00	0.00	0.00		
lead for Bitinum(from mumbai)											0.00
lead of 172 Kg drum from mumbai											
								km'	700.00	1081.75	KM
								km'	800.00	1234.35	
								km'	720.00	1173.31	
								for per kg	172.00	6.82	
1	C.C. 1:3:6 for foundation & beddding	SAND	0.47	0	0.00						
	Natural Sand	METAL	0.9	0	0.00						
		Cement	4.4	0	0.00						
					0.00						
1	C.C. 1:3:6 for foundation & beddding	SAND	0.47	0	0.00						
	crush Sand	METAL	0.9	0	0.00						
		Cement	4.4	0	0.00						
		Natural San	0	0.9	0.00						
					0.00						
2	P & C U.C.R masonry	SAND	0.35	0	0.00						
	Natural Sand	RUBBLE	1.16	0	0.00						
		Cement	1.7	0	0.00						
					0.00						
2	P & C U.C.R masonry	SAND	0.35	0	0.00						
	crush Sand	RUBBLE	1.16	0	0.00						
		Cement	1.7	0	0.00						
		Natural San	0	0.9	0.00						
					0.00						
3	P & C B.B. masonry in plinth & S.S	SAND	0.32	0	0.00						
	Natural Sand	BRICKS	1.00	0	0.00						
		Cement	1.58	0	0.00						
					0.00						

3	P & C B.B. masonry in plinth & S.S crush Sand	SAND BRICKS Cement	0.32 1.00 1.58	0 0 0	0.00 0.00 0.00	Total Tax	0.00%
					0.00		
4	P & L R.C.C. (M-25) 1:1:2 Natural Sand	SAND METAL Cement	0.425 0.9 7.5	0.00 0.00 0.00	0.00 0.00 0.00		
					0.00		
4	P & L R.C.C. (M-25) 1:1:2 crush Sand	SAND METAL Cement	0.425 0.9 7.5	0.00 0.00 0.00	0.00 0.00 0.00		
					0.00		
4	P & L R.C.C. (M-20) 1:1.5:3 Natural Sand	SAND METAL Cement	0.425 0.9 7	0 0 0	0.00 0.00 0.00		
					0.00		
4	P & L R.C.C. (M-20) 1:1.5:3 crush Sand	SAND METAL Cement	0.425 0.9 7	0 0 0	0.00 0.00 0.00		
					0.00		
4-A	P & L R.C.C. 1:2:4 Natural Sand	SAND METAL Cement	0.445 0.9 6.4	0 0 0	0.00 0.00 0.00		
					0.00		
4-A	P & L R.C.C. 1:2:4 crush Sand	SAND METAL Cement	0.445 0.9 6.4	0 0 0	0.00 0.00 0.00		
					0.00		
5	P & A 12mm tk plaster Natural Sand	SAND Cement	0.015 0.11	0 0	0.00 0.00		
					0.00		
5	P & A 12mm tk plaster crush Sand	SAND Cement	0.015 0.11	0 0	0.00 0.00		
					0.00		
6	P & A Sand faced 15 mm tk plaster Natural Sand	SAND Cement	0.02 0.17	0 0	0.00 0.00		
					0.00		
6	P & A Sand faced 15 mm tk plaster crush Sand	SAND Cement	0.02 0.17	0 0	0.00 0.00		
					0.00		
7	P & A 20 mm tk plaster with slurry Natural Sand	SAND Cement	0.025 0.17	0 0	0.00 0.00		
					0.00		
7	P & A 20 mm tk plaster with slurry crush Sand	SAND Cement	0.025 0.17	0 0	0.00 0.00		
					0.00		
8	P & F ploished shahabad for sills & dado Natural Sand	SAND Cement	0.022 0.185	0 0	0.00 0.00		

8	P & F ploished shahabad for sills & dado crush Sand	SAND	0.022	0	0.00		
		Cement	0.185	0	0.00		
					0.00		
9	P & C half brick wall 120 bricks per cum Natural Sand	sand	0.034	0	0.00		
		bricks	1	0	0.00		
		Cement	0.22	0	0.00		
							0.00
9	P & C half brick wall 120 bricks per cum crush Sand	sand	0.034	0	0.00		
		bricks	1	0	0.00		
							0.00
							0.00
10	P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	0	0.00		
		ROYALTY	0	0	0.00		
					0.00		
10	P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	0	0.00		
		ROYALTY	0	1	0.00		
					0.00		
11	50mm MPM	40 mm					
		metal	0.06	0	0.00		
		Cruash Me	0.018	0	0.00		
		Bitumen	2.05	0	0.00		
		Heating Charge			0.11		
		Total			0.11		
12	Open Graded Premix	Crush Met:	0.027	0	0.00		
		Bitumen	1.76	0	0.00		
		Total			0.00		
13	9mm Seal Coat type A	Crush Met:	0.017	0	0.00		
		Bitumen	1.2	0	0.00		
		Total			0.00		

Jr.Engineer
MSWC- Amravati

Dy.Manager (Engg.)
MSWC-Amravati

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	ALL ROYALT Y	For Scada	TOTAL	Add 0 % C Area Charges 0.000	TOTAL OF RATES 6 TO 11	ADD % FOR CHARGES 0.0000	TOTAL OF RATES 6 TO 14	AMOUNT
1	2	3	4	5	6	7	-120 8	9	10	11	12	13	14

S.W. II - W.H.BUILDING1/1000 M T
Part - A :- Civil work

1	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	311.00	sq m	2.07/23	4.00		4.00	4.00	0.00	4.00	1244	
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to adistance of 50 m. beyond the building area and stacking and sreading as directed. dewatering. preparing the bed	200.00	cu m	21.02/115	193.00		193.00	193.00	0.00	193.00	38600	
3	Excavation for foundation in earth, soils of all types, sand,gravel and soft murum, including removing the excavated material upto adistance of 50 metres beyond the building area and stacking and sreading as directed. dewatering. preparing the bed	1.00	cu m	21.04/115	241.00		241.00	241.00	0.00	241.00	241	
4	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed. dewatering. preparing the bed for the foundation and necessary back filling	33.00	cu m	21.06/115	212.00		212.00	212.00	0.00	212.00	6996	
5	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed. dewatering. preparing the bed for the foundation and necessary back filling	15.00	cu m	21.08/115	265.00		265.00	265.00	0.00	265.00	3975	
6	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and sreading as directed. dewatering. preparing the bed for the foundation and	1.00	cu m	21.10/115	235.00		235.00	235.00	0.00	235.00	235	
7	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and sreading as directed. dewatering. preparing the bed for the foundation and	8.00	cu m	21.12/116	291.00		291.00	291.00	0.00	291.00	2328	
8	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed. including dewatering. preparing the bed for the	1.00	cu m	21.14/116	402.00		402.00	402.00	0.00	402.00	402	
9	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed. including dewatering. preparing the bed for the	1.00	cu m	21.16/116	490.00		490.00	490.00	0.00	490.00	490	
10	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed. dewatering and	1.00	cu m	21.20/116	1223.00		1223.00	1223.00	0.00	1223.00	1223	
11	Excavation for foundation in Hard rock up to required depth by pocklain machine with needle breaker including removing the excavated stuff up to a distance of 50 m beyond the building area all lifts stacking. sreading directed	1.00	cu m	MR	900.00		900.00	900.00	0.00	900.00	900	
12	Excavation in plinth in earth soil of all types of sand or gravel or soft murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and sreading for embakment or stacking as	20.00	cu m	2.11/23	104.00		104.00	104.00	0.00	104.00	2080	
13	Excavation in plinth in Hard murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and sreading for embakment or stacking etc. Complete	1.00	cu m	2.13/23	121.00		121.00	121.00	0.00	121.00	121	
14	Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32 mm diameter up to 0.75 mtrs depth,placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete	10.00	Nos	12.13/65	1460.00		1460.00	1460.00	0.00	1460.00	14600	
15	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate (VSI grade finely washed crushed sand) conforming to IS: 383 the size of coarse aggregate not exceeding 25 mm cement content not to be	56.00	cu m	5.13/45	3410.00		3410.00	3410.00	0.00	3410.00	190960	
16	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering formwork laying/numbing compacting roughening them if snerial finish is to	31.00	cu m	24.01/130	5538.00	-120.00	5418.00	0.00	5418.00	0.00	5418.00	167958
17	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually striking joints on un exposed faces and watering	14.00	cu m	28.01/146	4757.00		4757.00	0.00	4757.00	0.00	4757.00	66598
18	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually striking joints on unexposed faces raking out	48.00	cu m	27.01/144	7343.00		7343.00	0.00	7343.00	0.00	7343.00	352464
19	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels chajias lintels nardis cornings fins arches etc as per detailed designs	12.000	M T	26.33/139	71778.00		71778.00	0.00	71778.00	0.00	71778.00	861336
20	Providing and laying in situ /Ready Mix cement concrete M-25of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out	37.00	Cum	25.13/133	6836.00	-120.00	6716.00	0.00	6716.00	0.00	6716.00	248492
21	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering formwork cover blocks laying/numbing compaction	22.00	cu m	25.33/134	13157.00	-120.00	13037.00	0.00	13037.00	0.00	13037.00	286814
22	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering formwork cover blocks	44.00	cu m	25.52/135	11652	-120.00	11532.00	0.00	11532.00	0.00	11532.00	507408
23	Providing and laying Cast in situ/Ready Mixcement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering formwork cover blocks laying/numbing compacting and roughening	1.00	cu m	26.07/137	13283	-120.00	13163.00	0.00	13163.00	0.00	13163.00	13163
24	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering formwork cover blocks laying/numbing	8.00	cu m	25.72/136	14114	-120.00	13994.00	0.00	13994.00	0.00	13994.00	111952

25	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete/(Crushed sand VSI Grade)	31.00	cu m	27.05/144	7570	-120.00	7450.00	0.00	7450.00	0.00	7450.00	230950
26	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including hauling out water. Steel centering formwork lavina/ numping compacting	1.00	cu m	24.08/131	6030	-120.00	5910.00	0.00	5910.00	0.00	5910.00	5910
27	Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	219.00	sq m	32.07/153	366.00		366.00	0.00	366.00	0.00	366.00	80154
28	Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	286.00	sq m	32.07/32.15/270	427.00		427.00	0.00	427.00	0.00	427.00	122122
29	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With CEMENT smooth finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed (Natural Sand)	350.00	sq m	32.07/32.21/154	434.00		434.00	0.00	434.00	0.00	434.00	151900
30	Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including scaffolding & preparing the surface by brushing & brooming down complete	286.00	sq m	36.02/36.03/168	18.00		18.00	0.00	18.00	0.00	18.00	5148
31	Providing and applying two coats of exterior acryalyc emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning preparing the plaster surface applying primer coat	315.00	sq m	35.25/165	240.00		240.00	0.00	240.00	0.00	240.00	75600
32	Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry,curing,moulding edges, polishing and cleaning etc. complete	2.00	sq m	33.19/157	1215.00		1215.00	0.00	1215.00	0.00	1215.00	2430
33	Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines including preparing the surfaces & primer coat etc. complete.	24.00	sq m	35.12/164 35.2	130.00		130.00	0.00	130.00	0.00	130.00	3120
34	Providing & applying oilpainting name of M S W C with three coat with background of approved colour & shade including scaffolding etc complete.	1.00	sq m	M R	1000.00		1000.00	0.00	1000.00	0.00	1000.00	1000
35	Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections with powder coating including necessary fixtures and fastening with 5 mm thick flat glass	12.00	sq m	R.A	6989.09		6989.09	0.00	6989.09	0.00	6989.09	83869
36	Providing & fixing steel rolling shutter fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling springs. Locking arrangements with not less than 6mm thick strin and central lock as	22.00	sq m	R.A	4822.00		4822.00	0.00	4822.00	0.00	4822.00	106084
37	Providing & fixing steel grill rolling shutter with fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling springs. Locking arrangements with not less than 6mm thick strin and central	22.00	sq m	R.A	3387.00		3387.00	0.00	3387.00	0.00	3387.00	74514
38	Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 mm thickness reinforced with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides. deep M.S. channe l section of depth	21.00	sq m	R.A	4940.97		4940.97	0.00	4940.97	0.00	4940.97	103760
39	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.	10.00	cum	21.36/117	113.00		113.00	0.00	113.00	0.00	113.00	1130
40	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable.	626.00	cu m	RA	1024.14		1024.14	0.00	1024.14	0.00	1024.14	641112
41	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	1060.00	sq m	2.31/24	19.00		19.00	0.00	19.00	0.00	19.00	20140
42	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling handracking complete	142.60	cu m	RA	1348.49		1348.49	0.00	1348.49	0.00	1348.49	192295
43	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete	613.10	sq m	50.59/250	27.00		27.00	0.00	27.00	0.00	27.00	16554
44	Providing and laying in situ Tremix Cement Concrete M -20, with Natural Sand, with Tremix tratment for 150 mm thickness for flooring with groove cuting of 4 mm wide and 20 mm deep at every 4.00 m c/c both sides with necessary refilling with bitumen etc	557.70	Sq.M	RA	1064.00	0.00	1064.00	0.00	1064.00	0.00	1064.00	593393
45	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. ((Crushed sand VSI Grade)	18.00	Cum	11.30/63	9276	0.00	9276.00	0.00	9276.00	0.00	9276.00	166968
46	Providing & fixing M.S. angle 50 x 50 x 6 mm with holdfasts at doorsills including fixing in bed concrete and then applying three coats of oilpaint etc. complete.	10.00	R M	RA	417.83		417.83	0.00	417.83	0.00	417.83	4178
47	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating hoisting erecting fixing in position making riveted / bolted /welded	1148.00	Kgs	23.01/129	89.18		89.18	0.00	89.18	0.00	89.18	102379
48	Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing	8.00	R M	RA	1761.08		1761.08	0.00	1761.08	0.00	1761.08	14089

49	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple joints head 1.2 mt. long (Heavy Duty) welded or clamped to G.I. pipe pole R grade 50	15.00	NO	RA	2132.00			2132.00	0.00	2132.00	0.00	2132.00	31980
50	Providing and fixing Marble plate engraving 10 cm.height letter, figures including painting the letters/figures with approved colour and shade complete	0.54	sq m	44.11/213	7356.00			7356.00	0.00	7356.00	0.00	7356.00	3972
51	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for	10.00	cu m	2.25/24	177.00			177.00	0.00	177.00	0.00	177.00	1770
52	Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of excavation to the site of deposition as directed.	200.00	cu m	5km/lead	220.06			220.06	0.00	220.06	0.00	220.06	44012
53	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1.00	cum	21.40/118	1322.00			1322.00	0.00	1322.00	0.00	1322.00	1322
54	Supply of pre-constructional Anti-termite treatment chemical as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Chlorophyrifos /Hephoclore per square meter of surface	28.00	Litre	RA	660.00			660.00	0.00	660.00	0.00	660.00	18480
55	Labour charges for pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Chlorophyrifos /Hephoclore per square meter of surface	558.00	sq m	RA	14.50			14.50	0.00	14.50	0.00	14.50	8091
56	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural	1.00	cum	26.19/137	14863.00	-120.00		14743.00	0.00	14743.00	0.00	14743.00	14743
57	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for flashing at parapet. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with super durable	30.00	sq m	RA	1332.80			1332.80	0.00	1332.80	0.00	1332.80	39984
TOTAL FOR W.H.BLDG												TOTAL RS	5843733

Part - B :- PEB work

1	Above Plinth PEB Structure - providing & erecting PEB structure with zincallume	550.00	Sqm	MR	5000.00			5000.00		5000.00	0.00	5000.00	2750000
2	Turbo ventilator 24"	8.00	No	42/374	8680	1000	1000	Supply fixing lycarboanate				10680.00	85440

												TOTAL RS	2835440
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S.W. III - INTERNAL ROADS

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	ALL ROYALT Y	For Scada	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATES 6 TO 11	ADD % FOR CHARGES 0.0000	TOTAL OF RATES 6 TO 11	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including d	515.00	cum	2.11/23	104.00			104.00		104.00	0.00	104.00	53560
2	Picking the road surface including sectioning etc. complete (WBM surface.)	0.00	Sqm	2.32/25	28.00			28.00		28.00	0.00	28.00	0
3	Excavation for roadway in hard murum and boulder including dressing section to the rec	1.00	cum	2.13/23	121.00			121.00		121.00	0.00	121.00	121
4	Excavation for roadway in soft rock, including dressing section to the required grade, c	1.00	cum	2.14/23	157.00			157.00		157.00	0.00	157.00	157
5	Excavation for roadway in hard rock by controlled blasting including dressing section to	1.00	cum	2.15/23	250.00			250.00		250.00	0.00	250.00	250
6	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with (	193.00	cum	21.40/118	1322.00			1322.00		1322.00	0.00	1322.00	255146
7	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc. (	167.00	cum	50.56/250	700			700.00		700.00	0.00	700.00	116900
8	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. (	111.00	cum	50.55/250	780			780.00		780.00	0.00	780.00	86580
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.	167.00	cum	50.58/250	85.00			85.00		85.00	0.00	85.00	14195
10	Spreading 40 mm trape stone metal including sectioning as directed etc. complete.	111.00	cum	50.58/250	85.00			85.00		85.00	0.00	85.00	9435
11	Supplying hard murum/ kankar at the road site, including conveying and stacking compl	70.00	cum	2.29a/24	398.00			398.00		398.00	0.00	398.00	27860

12	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	70.00	cum	2.30/24	74.00		74.00	74.00	0.00	74.00	5180	
13	Compacting oversize metal layer with H. M. with power roller including artificial watering	2520.60	sqm	50.59/250	27.00		27.00	27.00	0.00	27.00	68056	
14	Compacting the hard murum side widths including laying in layers on each side with vib	92.00	sqm	2.31/24	19.00		19.00	19.00	0.00	19.00	1748	
15	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road su	841.00	Sqm	RA	223.14		223.14	223.14	0.00	223.14	187661	
16	Providing and applying tack coat on the prepared surface heating by fumes in Boiler and	841.00	Sqm	RA	14.73		14.73	14.73	0.00	14.73	12388	
17	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness compose	841.00	sqm	RA	118.82		118.82	118.82	0.00	118.82	99928	
18	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of	841.00	sqm	RA	84.32		84.32	84.32	0.00	84.32	70913	
19	Providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting num	75.00	Nos	11.27/63	963		963.00	963.00	0.00	963.00	72225	
PART II :- CROSS DRAINAGE WORKS												
20	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, includi	23.00	cum	21.02/115	193.00		193.00	193.00	0.00	193.00	4439	
21	Excavation for foundation in hard murum including removing the excavated material upt	5.00	cum	21.06/115	212.00		212.00	212.00	0.00	212.00	1060	
22	Excavation for foundation in Hard murum including removing the excavated material up	3.00	cum	21.07/115	403.00		403.00	403.00	0.00	403.00	1209	
23	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including	1.00	cum	21.20/116	1223.00		1223.00	1223.00	0.00	1223.00	1223	
24	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ ql	4.00	cum	24.01/131	5538	-120.00	5418.00	5418.00	0.00	5418.00	21672	
25	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in ceme	9.00	cum	28.01/146	4757.00		4757.00	4757.00	0.00	4757.00	42813	
26	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters fi	1.30	MT	26.33/139	71778.00		71778.00	71778.00	0.00	71778.00	93311	
27	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / qua	6.00	cum	25.50/135	11483.00	-120.00	11363.00	0.00	11363.00	0.00	11363.00	68178
28	Providing cement plaster 20 mm thick in two coats in C. M. 1 : 4 with slurry finish to cor	27.00	sqm	32.07+32.01/ 152	557.00		557.00	0.00	557.00	0.00	557.00	15039
29	Providing flush grooved pointing with cement mortar 1:3 for brick work including scaffol	9.00	sqm	32.17/153	172.00		172.00	0.00	172.00	0.00	172.00	1548
30	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diame	10.00	Rmt	11.09/62	2678		2678.00	0.00	2678.00	0.00	2678.00	26780
31	Supplynig & spreading Hard mumrum for cushioning of R C C pipe including watering re	14.00	cu m	2.27/24	201.00		201.00	0.00	201.00	0.00	201.00	2814
32	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to hea	3.00	cu m	11.30/63	9276.00	0.00	9276.00	0.00	9276.00	0.00	9276.00	27828
33	Providing earth work in embankment with approved materials obtained from departmen	10.00	cum	2.27/24	201.00		201.00	201.00	0.00	201.00	2010	
34	Providing earth work in embankment with approved materials obtained from other sourc	584.00	cum	2.28/24	546.00		546.00	546.00	0.00	546.00	318864	
35	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cr	10.00	cum	2.25/24	177.00		177.00	177.00	0.00	177.00	1770	
36	Conveying the materials obtained from excavation including all lifts, laying in layers, bre	515.00	cum	5km/lead	220.06		220.06	220.06	0.00	220.06	113331	
TOTAL FOR INTERNAL ROADS										TOTAL RS	1826192	

