

**PRICE BID FOR CONSTRUCTION OF WORKING SHED CUM STORE AT 132KV GRID SUBSTATION, MePTCL  
MENDIPATHAR**

Item No.	Particulars	No.	L	B	H	Qty	Unit	Amount ₹
1	Earthwork in excavation upto a depth of 2m below the existing ground level for foundation..... Lifts as directed and specified for the following classifications of soils.							
	a) In Ordinary soil							
	Columns : -	8	x 1.00	x 1.00	x 1.00	= 8.000	m <sup>3</sup>	
	Long wall	2	x 11.20	x 0.45	x 0.70	= 7.056	m <sup>3</sup>	
	Short Wall	4	x 6.00	x 0.45	x 0.70	= 7.560	m <sup>3</sup>	
						<u>Total =</u>	<u>22.616</u>	<u>m<sup>3</sup></u>
						@ ₹	/	m <sup>3</sup> ₹
2	Plain cement concrete works with coarse aggregate of size 13mm to 32mm in foundation bed,etc.....and curing complete							
	(b) in prop. 1:4:8 ( 1 cement: 4: coarse sand 8- Coarse aggregate)							
	Columns : -	8	x 1.00	x 1.00	x 0.10	= 0.800	m <sup>3</sup>	
	Long wall	2	x 11.20	x 0.45	x 0.10	= 1.008	m <sup>3</sup>	
	Partition Wall	4	x 6.00	x 0.45	x 0.10	= 1.080	m <sup>3</sup>	
						<u>Total =</u>	<u>2.888</u>	<u>m<sup>3</sup></u>
						@ ₹	/	m <sup>3</sup> ₹
3	Supplying, fitting and fixing in positions reinforcement bars up to 1 st floor level,conforming to relevant I.S code for R.C.C work.....20G annealed black wire etc complete							
	(a) From Primary Sources Like TATA/SAIL/ESSAR/JINDAL/SHYAM/RINL							
	(i) TMT Corrosion resistant steel (CRS) reinforcement bar							
	Column : - 4 nos. 10mm dia. Main							
	Column	8	x 4	x 5.20	x 0.62	= 103.168	Kg	
	Plinth beam : 4 nos. 10mm dia.							
		2	x 4	x 11.50	x 0.62	= 57.040	Kg	
		4	x 4	x 6.20	x 0.62	= 61.504	Kg	
	Top beam : 4 nos. 10mm							
		2	x 4	x 11.50	x 0.62	= 57.040	Kg	
		4	x 4	x 6.20	x 0.62	= 61.504	Kg	
	Lintel : 3 nos. 8mm	2	x 3	x 11.50	x 0.39	= 26.910	Kg	
		2	x 3	x 6.20	x 0.39	= 14.508	Kg	
						<u>Total =</u>	<u>381.674</u>	<u>Kg</u>
								<u>3.817</u> Qntl
						@ ₹	/	Qntl ₹
	(c) ISI approved Mild steel reinforcement bar (M.S. Bar)							
	Column : 6mm dia stirrup @ 120 mm c/c							
	Below	8	x 9	x 0.95	x 0.22	= 15.048	Kg	
	Above plinth	8	x 33.00	x 0.95	x 0.22	= 55.176	Kg	
	Plint beam	2	x 94.00	x 0.95	x 0.22	= 39.292	Kg	
		4	x 50.00	x 0.95	x 0.22	= 41.800	Kg	
	Top Beam	2	x 9.00	x 0.55	x 0.22	= 2.178	Kg	
		2	x 50.00	x 0.55	x 0.22	= 12.100	Kg	
	Lintel :	2	x 94.00	x 0.40	x 0.22	= 16.544	Kg	
		2	x 50.00	x 0.40	x 0.22	= 8.800	Kg	
						<u>Total =</u>	<u>190.938</u>	<u>Kg</u>
								<u>= 1.909</u> Qntl
						@ ₹	/	Qntl ₹
4	Providing form work of ordinary timber planking of thickness not less than 25mm and removal of the same.....4.0M as specified for the following items							
	(a) Foundation, footings, base of columns, and mass concrete works etc.							
	Column :							
	Below Plinth Col	8	x 4	x 0.25	x 1.00	= 8.000	m <sup>2</sup>	
	Above plinth Col.	8	x 4	x 0.25	x 3.50	= 28.000	m <sup>2</sup>	
	Plinth beam	2	x 2	x 0.20	x 11.20	= 8.960	m <sup>2</sup>	
		2	x 2	x 0.20	x 6.00	= 4.800	m <sup>2</sup>	
	Top Beam	2	x 2	x 0.15	x 11.20	= 6.720	m <sup>2</sup>	

	2	x	2	x	0.15	x	6.00	=	3.600	m <sup>2</sup>
Lintel :	2	x	2	x	0.12	x	11.20	=	5.376	m <sup>2</sup>
	2	x	2	x	0.12	x	6.00	=	2.880	m <sup>2</sup>
							Total	=	68.336	m <sup>2</sup>
					@ ₹	/	m <sup>2</sup>		₹	

5 In foundation and sub- structure including footing, columns with base, tie and plinth beam..... and other works not less than 100 mm thick up to Plinth Level

(a) M 15 or 1:2:4 (For non-structural works)

C.Footing	8	x	1.00	x	1.00	x	0.10	=	0.800	m <sup>3</sup>
Post	8	x	5.00	x	0.20	x	0.20	=	1.600	m <sup>3</sup>
Plinth beam	2	x	11.20	x	0.20	x	0.20	=	0.896	m <sup>3</sup>
	4	x	6.00	x	0.20	x	0.20	=	0.960	m <sup>3</sup>
Top Beam	2	x	11.20	x	0.15	x	0.15	=	0.504	m <sup>3</sup>
	3	x	6.00	x	0.15	x	0.15	=	0.405	m <sup>3</sup>
Lintel	2	x	11.20	x	0.12	x	0.12	=	0.323	m <sup>3</sup>
	3	x	6.00	x	0.12	x	0.12	=	0.259	m <sup>3</sup>
							Total	=	5.747	m <sup>3</sup>
					@ ₹	/	m <sup>3</sup>		₹	

6 Brick work in cement mortar with 1st class brick including racking out joints and curing complete in sub- structure up to plinth level including dewatering if necessary as directed

(d) In Prop: 1:6

Long Plinth wall	2	x	11.20	x	0.25	x	0.75	=	4.20	m <sup>3</sup>
Short Plinth wall	4	x	6.00	x	0.25	x	0.75	=	4.50	m <sup>3</sup>
							Total	=	8.70	m <sup>3</sup>
					@ ₹	/	m <sup>3</sup>		₹	

7 Brick nogged wall with 1st class brick in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level.

d) For Walling (superstructure) In prop. 1:6 (1- Cement, 6- Sand)

Long Wall	2	x	7.20	x	3.50	x	0.125	=	6.30	m <sup>3</sup>	
Short Wall	2	x	6.00	x	3.50	x	0.125	=	5.25	m <sup>3</sup>	
Store Room	1	x	2.40	x	3.50	x	0.125	=	1.05	m <sup>3</sup>	
Store Room wall	2	x	3.60	x	3.50	x	0.125	=	3.15	m <sup>3</sup>	
	2	x	1/2x(6x1.16)			x	0.125	=	0.87	m <sup>3</sup>	
								=	16.62	m <sup>3</sup>	
<b>Deduction for Doors :</b>										m <sup>3</sup>	
Doors D	1	x	2.40	x	2.00	x	0.125	=	0.600	m <sup>3</sup>	
	D1	1	x	0.90	x	2.00	x	0.125	=	0.225	m <sup>3</sup>
Window W	4	x	0.90	x	1.20	x	0.125	=	0.540	m <sup>3</sup>	
							S/total	=	1.365	m <sup>3</sup>	
							Total	=	15.255	m <sup>3</sup>	
					@ ₹	/	m <sup>3</sup>		₹		

8 10mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior.....including curing complete as directed

(a) Proportion 1:3

Outside Wall			2	x	7.20	x	3.50	=	50.40	m <sup>2</sup>
			2	x	6.00	x	3.50	=	42.00	m <sup>2</sup>
			2	x	3.60	x	3.50	=	25.20	m <sup>2</sup>
			1	x	2.40	x	3.50	=	8.40	m <sup>2</sup>
Inside wall			2	x	6.80	x	3.50	=	47.60	m <sup>2</sup>
			2	x	6.00	x	3.50	=	42.00	m <sup>2</sup>
			2	x	3.60	x	3.50	=	25.20	m <sup>2</sup>
			1	x	2.40	x	3.50	=	8.40	m <sup>2</sup>
	2	x	2	x	1/2(6*1.16)	x	1.00	=	13.92	m <sup>2</sup>
Steps side	1	x	1	x	3.40	x	0.20	=	0.68	m <sup>2</sup>
	1	x	1	x	2.70	x	0.20	=	0.54	m <sup>2</sup>
Steps Top	2	x	2	x	2.00	x	0.35	=	2.80	m <sup>2</sup>
								=	267.14	m <sup>2</sup>

**Deduction for Doors :**

Doors D	2		1	x	2.40	x	2.00	=	9.60	m <sup>2</sup>
	D1	2	1	x	0.90	x	2.00	=	3.60	m <sup>2</sup>

	Window	W	2	4	x	0.90	x	1.20	=	8.64	m <sup>2</sup>		
										S/total	21.84	m <sup>2</sup>	
										Total	245.30	m <sup>2</sup>	
										@ ₹	/	m <sup>2</sup>	₹
9	Cement plaster skirting with cement mortar in prop. 1:3 (1- cement, 3- coarse sand) finished with a floating coat of neat cement including rounding of junctions with floor												
	(b) 20 mm thick												
	Plinth wall		2	x	11.20	x	0.40	=	8.96	m <sup>2</sup>			
			2	x	6.00	x	0.40	=	4.80	m <sup>2</sup>			
										<u>13.76</u>	m <sup>2</sup>		
										@ ₹	/	m <sup>2</sup>	₹
10	Earth/sand filling With available excavated earth including breaking of clods, consolidating each layer by ramming and watering with all leads and lifts												
			3	x	3.60	x	6.000	x	0.35	=	22.68	m <sup>3</sup>	
										Total	=	22.68	m <sup>3</sup>
										@ ₹	/	m <sup>2</sup>	₹
11	Providing Brick/stone soling in foundation and under floor with stone/best quality picked jhama brick..... all labours and materials and if necessary dewatering complete												
	(c) stone soling of thickness 100mm												
	Store room		1	x	3	x	3.600	x	6.00	=	64.80	m <sup>2</sup>	
	Apron		2	x	12.60	x	0.60	=	15.12	m <sup>2</sup>			
			2	x	6.40	x	0.60	=	7.68	m <sup>2</sup>			
										Total	=	87.60	m <sup>2</sup>
										@ ₹	/	m <sup>2</sup>	₹
12	65mm thick in cement concrete floor consisting of 50 mm under layer of cement concrete proportion 1:3:6 ( 1 = cement, 3= sand, and 6= stone aggregates of 25 mm and down) and 15 mm thick..... Including curing etc. complete as directed												
	Stone room		1	x	1	x	11.200	x	6.00	=	67.20	m <sup>2</sup>	
	Apron		2	x	12.60	x	0.60	=	15.12	m <sup>2</sup>			
										Total	=	82.32	m <sup>2</sup>
										@ ₹	/	m <sup>2</sup>	₹
13	Cement concrete works in topping prop 1:1:2 (1- cement, 1- sand, 2 graded aggregates on R.C.C floor.....finished with floating coat of neat cement slurry @ 2.75 Kg of cement per sq m of floor complete as directed.												
	(b) 15 mm thick												
			1	x	11.200	x	6.00	=	67.20	m <sup>2</sup>			
										Total	=	67.20	m <sup>2</sup>
										@ ₹	/	m <sup>2</sup>	₹
14	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated using iron hollow sections conforming to relevant I.S code as per approved design and drawings including providing M.S. cleats, base plates, bolts..... Cling joist as per design and drawing as directed.												
	Using TATA make circular Hollow section of grade YST-310 conforming to I.S. Specification: 1161-1998												
	80 MM Ø												
	Rafter		2	x	2	x	3.80	x	8.53	=	129.656	kg	
	Single Rafter		2	x	2	x	3.80	x	8.53	=	129.656	kg	
	Purlins :-		2	x	4	x	11.80	x	8.53	=	805.232	kg	
	Long Tie		1	x	2	x	6.00	x	8.53	=	102.36	kg	
	65 MM Ø												
	King Post		2	x	2	x	1.16	x	6.54	=	30.3456	kg	
			2	x	4	x	0.90	x	6.54	=	47.088	kg	
			2	x	4	x	0.50	x	6.54	=	26.16	kg	
	32 MM Ø												
	Strut		2	x	4	x	1.40	x	3.13	=	35.056	kg	
			2	x	4	x	1.30	x	3.13	=	32.552	kg	
										<u>1338.106</u>	kg		
											13.381	Qntl	
										@ ₹	/	Qntl	₹

15 Providing and fixing rolling shutters of approved make made of 80 mm wide M.S. laths interlockd together through their entire length and jointed together at the ends by the end-locks mounted on specially designed pipe..... Including cost of wire, spring and hood cover for the shutter

Doors	D			1	x	2.50	x	2.00	=	5.00	m <sup>3</sup>
										@ ₹	/ m <sup>2</sup> ₹

16 Providing wood work in frame (chowkhats) of door, windows, clesetory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall..... with C.C and Masonry as directed and specified.

(C) With Red pine

Door	2	x	1	x	2.00	x	0.10	x	0.075	=	0.03	m <sup>3</sup>
	1	x	1	x	0.90	x	0.10	x	0.075	=	0.0068	m <sup>3</sup>
Window	4	x	2	x	1.20	x	0.10	x	0.075	=	0.072	m <sup>3</sup>
	4	x	2	x	0.90	x	0.10	x	0.075	=	0.054	m <sup>3</sup>
										=	0.163	m <sup>3</sup>
										@ ₹	/ m <sup>3</sup> ₹	

17 Providing and fitting and fixing full panelled doors/ windows, including oxidised M.S butt hinges (iron hinges,100 mm x 75 mm x 3.55 mm ) with necessary screws.

(c) With Red Pine Wood (iii) 30 mm thick

Window	4	x	0.85	x	1.10	=	3.740	m <sup>2</sup>
Door	1	x	0.85	x	1.90	=	1.615	m <sup>2</sup>
						=	5.355	m <sup>2</sup>
						@ ₹	/ m <sup>2</sup> ₹	

18 Providing wood work in frame of false ceiling partitions etc, sawn, wrought, framed hoisted and fixed in position with spikes, nails, MS flat angle/cleats with bolt and nuts complete.

(d) White Pine wood

	5	x	11.20	x	0.075	x	0.05	=	0.210	m <sup>3</sup>
	10	x	6.00	x	0.075	x	0.05	=	0.225	m <sup>3</sup>
	4	x	2.40	x	0.075	x	0.05	=	0.036	m <sup>3</sup>
	5	x	3.60	x	0.075	x	0.05	=	0.068	m <sup>3</sup>
								=	0.539	m <sup>3</sup>
						@ ₹	/ m <sup>3</sup> ₹			

19 Providing, fitting and fixing A.C building board in ceiling with necessary nails,wood screws including 1st class local wood 50mm X 12mm(hoolock/bomsum/sundi) beading including painting.

(a) 4mm thick

Store	1	x	1	x	7.200	x	6.000	=	43.20	m <sup>2</sup>
Small Room	1	x	1	x	3.600	x	2.400	=	8.64	m <sup>2</sup>
							Total	=	51.84	m <sup>2</sup>
							@ ₹	/ m <sup>2</sup> ₹		

20 Providing corrugated galvanized iron sheet roofing of TATA SHAKTEE/ SAIL fitting and fixing necessary ..... with galvanized iron J/L hooks, bolts and nuts, 8mm dia. with bitumen and GI limpet washers or with GI limpet washers filled with white lead complete excluding the cost of purlins, rafters and trusses.

(a) 0.45mm thick	1	x	2	x	12.20	x	3.90	=	95.16	m <sup>2</sup>
							Total	=	95.16	m <sup>2</sup>
							@ ₹	/ m <sup>2</sup> ₹		

21 Providing galvd iron ridging of TATA SHAKTEE/ SAIL including supplying and fixing necessary galvd screws/ washers etc. complete as directed.

(a) 0.45mm thick (ii) 230

	1	x	12.20	=	12.20	m <sup>2</sup>
				Total	12.20	m <sup>2</sup>
				@ ₹	/ m <sup>2</sup> ₹	

22 Providing a barge board of size 200mm x 20mm including fitting and fixing with necessary wood screws etc. Complete

(b) Red Pine wood

	2	x	12.20	=	24.40	m <sup>2</sup>
--	---	---	-------	---	-------	----------------

$$2 \times 2 \times 3.90 = \frac{15.60}{40.00} \text{ m}^2$$

$$\text{@ ₹ / m}^2 \text{ ₹}$$

23 Distemping with dry distemper of approved brand and manufacture..... and  
Outside Wall

1	x	2	x	7.20	x	3.50	=	50.40	m <sup>2</sup>	
1	x	2	x	6.20	x	3.50	=	43.40	m <sup>2</sup>	
		2	x	3.60	x	3.50	=	25.20	m <sup>2</sup>	
		2	x	(6x1)/2			=	6.00	m <sup>2</sup>	
							Total	=	125.000	m <sup>2</sup>

**Deduction for Doors :**

Doors	D	1	x	2.40	x	2.00	=	4.80	m <sup>2</sup>	
	D1	1	x	0.90	x	2.00	=	1.80	m <sup>2</sup>	
Window	W	4	x	1.00	x	1.20	=	4.80	m <sup>2</sup>	
							S/total	=	11.40	m <sup>2</sup>
							Total	=	113.60	m <sup>2</sup>
							@ ₹ / m <sup>2</sup>		₹	

24 Providing CC/Brick/Stone open surface Drain with 15mm thick cement plastering in prop.1:3  
(b) With brick work in cement mortar in proportion 1:5.....100mm  
thick C.C (1:3:6) base over one brick flat soling  
(i)300mm wide and average 150mm deep

$$1 \times 47.00 \text{ m}$$

$$\text{@ ₹ / Rm ₹}$$

25 Applying priming coat over new wood and wood based surface over 100mm in girth/ width and  
including preparing surface..... Sand papering and knotting.

(a) With ready mixed paint, wood primer pink/ white

(a) Wood works

Door Panel	D1	1	x	0.90	x	1.90	x	2.60	=	4.446	m <sup>2</sup>		
Door chowkat		1	x	2	x	2.00	x	0.18	=	0.720	m <sup>2</sup>		
		1	x	1	x	0.90	x	0.18	=	0.162	m <sup>2</sup>		
Window		4	x	0.9	x	1.10	x	2.60	=	10.296	m <sup>2</sup>		
Window Chowkhat		4	x	2	x	1.20	x	0.18	=	1.728	m <sup>2</sup>		
		4	x	2	x	0.90	x	0.18	=	1.296	m <sup>2</sup>		
										Total	=	18.648	m <sup>2</sup>
										@ ₹ / m <sup>2</sup>		₹	

26 Painting two coats (excluding priming coat) on new wood and wood based surface with enamel  
paint approved..... all dirt, dust and other  
foreign matter sand papering and stopping

(a) With Surface over 100mm in width or girth

(i) General purpose (Asian paint/Berger paint/ICI paint/J & N paint/ nerolac

(a) Wood works

Door Panel	D1	1	x	0.90	x	1.90	x	2.60	=	4.446	m <sup>2</sup>		
Door chowkat		1	x	2	x	2.00	x	0.18	=	0.720	m <sup>2</sup>		
		1	x	1	x	0.90	x	0.18	=	0.162	m <sup>2</sup>		
Window		4	x	0.9	x	1.10	x	2.60	=	10.296	m <sup>2</sup>		
Window Chowkhat		4	x	2	x	1.20	x	0.18	=	1.728	m <sup>2</sup>		
		4	x	2	x	0.90	x	0.18	=	1.296	m <sup>2</sup>		
										Total	=	18.648	m <sup>2</sup>
										@ ₹ / m <sup>2</sup>		₹	

27 Extra lead per km truck carriage for sand, gravel, mawthup beyond the initial lead of 8 Km

Item No	Quantity	Stone M <sup>3</sup>	Sand m <sup>3</sup>
2/2.1	2.888m <sup>3</sup>	2.77	1.39
5/2.5.1	5.747m <sup>3</sup>	5.057	2.529
6/4.3	8.70m <sup>3</sup>		2.871
7/4.4	15.255m <sup>3</sup>		5.03
8/5.1	245.30 m <sup>2</sup>		2.987
9/3.9	13.76m <sup>2</sup>		0.336
12/3.4	82.32 m <sup>2</sup>	77.38	38.69
13/3.1	67.20 m <sup>2</sup>	52.42	26.208
24/19.4	47 Rm	0.44	0.22
		138.07	80.26

(A) Stones/Chips :- Quarry at Motchorpara 16.00km away from work site

Total:- 16.0km-8.0km = 8.0 km

Quantity of carriage for stones/chips in km/ m<sup>3</sup> i.e 8.0 x 138.07 = 1104.56  
| @ per km ₹

(B) Sand :- Quarry at Damring 12 km away from work site

Total:- 12 km-8.00km = 4km

Quantity of carriage for sand in km/ m<sup>3</sup> i.e 4 x 80.261 = 321.044  
| @ per km ₹

---

Total Amount = ₹

(In word Rupees

