


ABSTRACT OF COST

Name of Work :- Supply and erection of 2 nos. Of 400KVA, Distribution Transformer in RIMS, Imphal

(A) (SH: Supply of Materials)

Estimated Cost :- Rs./-

Sl.No.	Description of items	Unit	Qty	Rate	Amount	Freight & Insurance	
						Unit cost	Total Cost
1	Installation of distribution transformer of 400KVA, 11/0.4 KV (outdoor type) at RIMS complex.	Nos	3				
2	9m steel tubular pole 410 SP-31 (Galvanised)	Nos	6				
3	Channel 100x50, 7.9kg/m 2.8x2 for supporting	Set	3				
4	Channel 100x50, 7.9kg/m 2.8x2 for D.P. X-arm galvanised.	Set	3				
5	Channel 100x50, 7.9kg/m 0.46x2 for supporting galvanised.	Set	3				
6	Channel 75x40, 5.7kg/m 2x2, Bm for HG fuse unit & A.B. Switch galvanised.	Set	6				
7	Channel 75x49, 5.7kg/m 2x1.0m, AB switch main galvanised.	Set	3				
8	Channel 75x40, 5.7kg/m 2x0.5, for supporting H.G. Fuse main channel for supporting H.G. X-arm galvanised.	Set	9				
9	Angle (50x50x6)mm, 2.8x24.5kg/m for transformer galvanised.	Set	3				
10	Clamp for transformer base channel for M.S. Flat 50x8mm, 3.1kg/m 0.27x2 galvanised.	Set	6				
11	Clamp for A.B. Switch braching 50x8mm, 3.1kg/m galvanised.	Set	6				
12	A.B. Switch	nos	3				
13	Horn cap fuse unit/D.O. Fuse	Set	3				
14	3 way D.B. Box with complete accessories such as Cu. Bus-Bar with Kit-Kat	Nos.	3				
15	Supply of 1.1KV grade, 3.5 core 95 sq.mm. PVC insulated aluminium power cable.	Nos	9				
16	D.B. Box cross-arm of M.S. Angle 35x35x5mm, galvanised	set	3				
17	Sub station earthing (set of 3 earthing pipe)	set	3				
18	3 phase trivector energy meter comprising of IS 146971999 with kiosk	Nos	3				
19	Danger board	Nos	3				
20	1KV lightning arrestor	Nos	9				
21	Bolts, Nuts, Clamps etc.	L.S.	3				
22	Sundries, pole painting etc.	L.S.	3				


 Assistant Engineer (Elect.)
 Central Workshop, RIMS
 Imphal

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(B) (SH: Erection Portion)

Estimated Cost :- /-


Sl.No.	Description of items	Unit	Qty	Rate	Amount	Service tax @ 12 %
1	Erection, testing, commissioning of 3-PH, 50Hz, 11/0.415KV, 400KVA distribution transformer i/c erection of DP structure, distribution boxes, fuses, energy meters & metering box, switches/ main switches, earthing providing connection etc, & all accessories complete including loading, unloading etc. and also providing of all civil works viz, foundation(including the cost of cement, steel etc. may be required for foundation materials) as per TS and approved drawings.	No	3			
2	Providing of sub-station earthing (Set of 3 earthing pit) with all accessories complete.	Nos	3			
3	Laying, dressing, testing and commissioning of 1.1KV, 3.5 core PVC insulated steel armoured single aluminium power cable with proper cramping, terminations etc i/c supply of lugs, ferrules & termination sockets etc including installation of MCCB as per approved drawing and TS.	Set	3			
4	Fixing of danger board	No	3			
5	Erection, testing, and commissioning of 9kv, 1-ph, gapeles lightening arrester/surge arrester complete with with insulating base, terminal connector etc and all fittings & accessories, including erection of associated structures, complete as per TS.	No	9			
6	Erection, testing, and commissioning of 200A, 3-ph, Gang operated AB switch along with support insulators operating mechanism, base channel down pipe, terminal connectors and all fitting and accessories including erection of associated structures complete as per TS for erection, testing and commissioning.	No	9			
7	Erection, testing and commissioning of 3-phase Trivector Energy meter with kiosk	No	3			
8	Providing of sub-station fencing.	No	3			

Total of (B) :-

Assistant Engineer (Elect.)
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SPECIFICATION OF 400KVA DISTRIBUTION TRANSFORMER

Sl.No.	Particulars	
1	Rated Voltage HV	11 KV
2	Rated Voltage LV	433 - 240 V
3	Frequency	50Hz +/- 5 %
4	No. of Phases	3 (Three)
5	Connection HV	Delta
6	Connection LV	Star (Neutral brought out)
7	Vector Group	Dyn-11
8	Type of cooling	ONAN (oil natural air natural)

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