

**PRICE BID FORMAT
ABSTRACT OF COST**

Name of Work: Construction & Development of Open Storage Yard and closed storage shed, including Civil, Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.

PROJECT : RAILWAY ELECTRIFICATION BIRLANAGAR-ETAWAH 386 KM/440TKM PROJECT

Scope of Work : 1. Open Storage Yard at 3 different places, approx 3375 Sqm area each Boundary wall & Fencing, 2. Closed Storage Shed. 3. Fencing 4. Internal & External Electrification work

Section No	Description	Weightage (%)	Amount (Rs)	Remarks
A	Civil Works -Part A	92.78	=0.9278 x P	
B	Electrical Works - Part B	7.22	=0.0722 x P	
Total (A+B) =P= (Bidder to be quote total amount i.e, P)				
Total (A+B) =P= (Bidder to be quote total amount i.e, P) in words				

Note:

1	Bidders should quote only the Total Amount both in figures & words in the specified place in "this "Abstract of Cost" sheet only. They should not fill/quote/write anything in col. (VII) & (VIII) of Annexures 'A' & col. VI & VII of Annexure 'B' , i.e. BOQ sheets ofor "Civil Works, Section-A" and "Electrical Works, Section-B" . The bidder should also not quote at total place of Section-A & Section-B BOQ's attached in Ann. A & Ann. B. These rates & amount will be derived from the Total amount quoted and weightage factor assigned against respective section/items .
2	Evaluation Shall be based on total amount quoted by bidder.
3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be applicable.
4	Details of BOQ items shall be read in conjunction with the corresponding specifications, drawings and other tender terms.

ANNEXURE -A OF PRICE BID FORMAT

Section:A:

BOQ and Weightage for Proposed Construction & Development of Open Storage Yard and closed storage shed, including Civil,Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.

PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
I	II	III	IV	V	VI	VII	VIII
CARRIAGE OF MATERIALS							
1	Carriage of materials by mechanical transport including loading, unloading and stacking.						
	Earth upto 2km	cum	100	0.0797			
EARTHWORK							
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed.						
	All kinds of Soil	cum	72	0.0699			
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed as per direction of Engineer in -charge.						
	Ordinary rock	cum	57.6	0.1083			
4	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc and disposing of surplus excavated soil as directed, within a lead of 50m.						
	Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm dia.	Metre	10	0.0194			
5	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 50m and lift up to 1.5m in all kind of soil.	Cum	246.08	0.2884			

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Section:A:**BOQ and Weightage for Proposed Construction & Development of Open Storage Yard and closed storage shed, including Civil, Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.****PART A : CIVIL WORKS :**

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
6	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	1000	1.7284			
7	Providing and Filling below foundations/floor with random rubble stone chipping in layers including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	Cum	296.6	2.9075			
8	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
	all kinds of soil	cum	21.6	0.0104			
9	Extra for every additional lift of 1.5 m or part thereof in excavation /						
	Ordinary or hard rock	cum	21.6	0.0187			
10	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	20	0.2084			
11	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	10650	0.7132			
12	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	10650	0.3637			
CONCRETE WORK							
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	93.681	3.1290			

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	121.322	3.7483			
15	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	10	0.3623			
16	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	10	0.0186			
REINFORCED CEMENT CONCRETE CONCRETE WORK							
17	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :						
	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	145.605	5.6693			
18	Centering and shuttering including strutting, propping etc and removal of form for :						
	Foundations, footings, bases of columns etc for mass concrete	Sqm	127	0.1930			
19	Centering and shuttering including strutting, propping etc and removal of form for :						
	Suspended floors, roofs, lanings balconies and access platform.	Sqm	20	0.0740			
20	Centering and shuttering including strutting, propping etc and removal of form for :						
	Shelves (cast in situ)	Sqm	20	0.0740			
21	Centering and shuttering including strutting, propping etc and removal of form for :						
	Lintels, beams plinth beams, girders, bressumers and cantilevers	Sqm	81.6	0.2404			
22	Centering and shuttering including strutting, propping etc and removal of form for :						

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Section:A:

BOQ and Weightage for Proposed Construction & Development of Open Storage Yard and closed storage shed, including Civil, Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.

PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
	Columns, Pillars, Piers, Abutments, Posts and Struts,	Sqm	352.8	1.3813	Bidders not to quote or write anything here	Bidders not to quote or write anything here	
24	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work for Concrete Sleepers, Cable Trench, 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	27	1.2804			
25	Reinforcement for RCC work including straightening, cutting, bending, planing in position and binding all complete.						
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	12000	5.3470			
BRICK WORK							
26	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes.						
	Cement Mortar 1:6 (1 cement : 6 coarse sand)	Cum	40	1.6202			
27	Half Brick masonry with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level.						
	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	20	0.0995			
28	Extra for providing and placing in position 2 nos.6 mm dia M.S. bars at every third course of half brick masonry (with F.P.S bricks)	sqm	20	0.0085			
STEEL WORK							
29	Supply, Fabrication and erection of Structural steel work any kind of section riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete: For Fencing post, grill work, gate, hinges, trusses framed work, aldrops, guide track, castro; wheel, lock and lach and any similar kind of work etc.	kg	81000	43.9808			

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
30	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire dprings grade No. 2 and M.S. top cover of required thickness for rolling shutters.						
	80x 1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	48	0.7181			
31	Providing and fixing ball bearing for Rolling shutters	each	4	0.0090			
32	Extra for providing mechanical device chain and crank operation for operating rolling shutters.						
	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	28	0.1653			
33	Extra for providing mechanical device chain and crank operation for operating rolling shutters.						
	Exceeding 16.80 sqm in area	Sqm	20	0.1181			
34	Providing and fixing pressed steel door frames conforming to IS 435 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards lock strikeplate and shock absorbers as specified and applying a coat of approved steel primer after pre treatment of the surface as directed by Engineer-in-charge.						
	Profile B	metre	10	0.0223			
35	Providing and fixing circular/Hexagonal cast iron or M.s. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.s. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.s. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be Made of 12mm dia M.S. bar bent to shape as per standard drawings.	Each	10	0.0092			
FLOORING							
36	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.						
	40 mm thick with 20 mm nominal size stone aggregate	Sqm	540	1.4361			
ROOFING & Side Wall							

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
37	Providing corrugated G.S. sheet roofing including vertical / curved surface 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, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					Bidders not to quote or write anything here	Bidders not to quote or write anything here
	1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	1224	8.0617			
FINISHING							
38	15mm cement plaster on the rough side of single or half brick wall of mix:					Bidders not to quote or write anything here	Bidders not to quote or write anything here
	1:6 (1 cement : 6 fine sand)	Sqm	300	0.4688			
39	12 mm cement plaster of mix :					Bidders not to quote or write anything here	Bidders not to quote or write anything here
	1:4(1 cement : 4 fine sand)	Sqm	400	0.5696			
40	White washing with lime to give an even shade.					Bidders not to quote or write anything here	Bidders not to quote or write anything here
	New work (three or more coats.)	Sqm	500	0.0762			
Fencing							
41	Supply, Fabrication and erection of Structural steel work any kind of section riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete: For fencing post, grill work, gate, hinges, aldrops, guide track, castor wheel, lock and latch and any similar kind of works etc	Kg	6000	3.2578			

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S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
42	Providing and fixing G.I chain link fencing with mesh size 75x75 mm and of minimum 4 mm diameter. The chain link fencing material requirement shall conform to IS: 2721. The chain link fence fabric shall have zinc coating of type heavy as given in IS 4826. The G.I. chain link wire mesh will be stretched and attached by clips to 3 strands of High Tensile Spring Steel (HTSS) wire of 4 mm dia interwoven in chain link wire mesh and kept under tension which in turn are attached to the fence post with security nuts and bolts. On every fourth post a clamping strip (U bolt 3 nos to hold HTSS wire) will be threaded through the links of chain link and bolted to the fence post with the help of security nuts and bolts. On each post 3 nos GI plate shall be provided with nut & bolt to support chainlink fencing. All nuts, fasteners, bolts, clamping strips, clamps, clips, etc. shall be galvanised. IS 4826 (PLEASE REFRE ATTACHED DRAWING)	Sqm	1440	3.7984			
43	Providing and fixing GI: Galvanized reinforced twisted barbed wire/tape with double edge profile, twisted around minimum 2.5mm (minimum) galvanized bare wire, between the half Y steel posts fitted and fixed with G.I. staples, turn buckles etc. complete IS 278, at all height and level (PLEASE REFRE ATTACHED DRAWING)	metre	720	0.0487			
SANITARY INSTALLATIONS							
44	Providing and fixing water closet squatting pan (indian type W.C pan) with 100mm sand cast iron P or S tap, 10 litre low level white PVC flushing cistern with manually controlled device conforming to IS:7231 with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:						
	White vitreous china Orissa pattern WC pan of Size 580x440mm with flush pipe and integrated type foot rests:	Each	1	0.0289			
45	P/F white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lid 10 litre low level white PVC flushing cistern 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						
	WC pan with ISI marked white solid plastic seat and lid	each	1	0.0281			
46	Providing and fixing wash basin with CI Brackets, 15mm CP brass pillars taps 32mm CP brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require:						
	White Vitreous china wash basin size 630x450mm with a single 15mm CP brass pillars tap	each	1	0.0147			

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
47	Providing and fixing stainless steel A ISI 304 (18/8) kitchen sink as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fittings and brackets, chitting and making good the walls wherever required :						
	Kitchen sink with drain board						
	510x 1040 mm bowl depth 200 mm	each	1	0.0298			
48	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete						
	Flexible pipe 32mm dia	each	1	0.0005			
49	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete						
	Flexible pipe 40mm dia	each	1	0.0005			
50	P/F 600 x 450 mm beveled edge mirror of superior glass of approved quality complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	1	0.0068			
51	Providing and fixing soil, waste and vent pipes 100mm dia						
	Centrifugally cast iron socketed pipe as per IS 3989	metre	150	0.8743			
52	Providing and fixing M.s. holder bat clamps of approved desing to sand cast iron/cst iron pipe embedded in and including cement concre blocks 10x10x10cm of 1:2:4 mix including cost of cutting holes and making goods the walls etc.:						
	For 100 mm dia Pipe	Each	1	0.0015			
53	Providing and fixing bend of required degree with access door, insertion rubber washer 3mm thick, bolts and bnuts complete						
	100mm Sand cast iron S&S as per IS 3989	each	3	0.0074			
54	Providing and fixing plain bend of required degree						
	100mm Sand cast iron S&S as per IS : 3989	each	3	0.0063			
55	providing and fixing heel rest sanitary bend						
	100 mm dia sand cast iron S&S as per is -1729	each	3	0.0080			
56	Providing and fixing single unequal plain junction of required degree:						
	100x 100x 75 mm sand cast iron S&S as per IS 1729	each	3	0.0112			
57	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.						
	100x100x100mm Sand cast iron S&S as per IS 3989	each	3	0.0116			
58	Providing and fixing terminal guard						
	100mm Sand cast iron S&S as per IS 3989	each	3	0.0062			

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
59	Providing and fixing collar 100mm				Bidders not to quote or	Bidders not to quote or	
	Sand cast iron S&S as per IS 3989	each	3	0.0066			
60	Providing lead caulked joints to sand cast iron / centrifugally cast iron pipes and fitting of diameter 100mm				Bidders not to quote or	Bidders not to quote or	
		each	3	0.0077			
61	Providing and fixing floor trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors				Bidders not to quote or write anything here	Bidders not to quote or write anything here	
	100mm inlet and 100mm outlet						
	Sand cast iron S&S as per IS 3989	each	3	0.0242			
WATER SUPPLY							
62	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.				Bidders not to quote or write anything here	Bidders not to quote or write anything here	
	15mm dia nominal bore	metre	50	0.0541			
63	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				Bidders not to quote or write anything here	Bidders not to quote or write anything here	
	20mm dia nominal bore	metre	50	0.1318			
64	P/F brass stop cock of approved quality 15mm nominal bore	each	6	0.0097			
65	P/F brass stop cock of approved quality 20mm nominal bore	each	6	0.0105			
66	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete				Bidders not to quote or write anything here	Bidders not to quote or write anything here	
	15 mm nominal bore	each	15	0.0271			
67	Constructing masonry chamber 60 x 60 x 75 cm , inside with class 75 designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve , with C.I surface box 100 mm Top, diameter 160 mm bottom diameter and 180 mm deep (inside) with chained lid and rcc top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design						

Section:A:

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
	with F.P.S bricks	each	15	0.7435			
68	Constructing masonry chamber 90 x 90 x 100 cm , inside with class 75 designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve , with C.I surface box 100 mm Top, diameter 160 mm bottom diameter and 180 mm deep (inside) with chained lid and rcc top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design						
	with F.P.S bricks	each	15	1.2915			
69	Providing and placing on terrace polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank						
	Circular tank	per litre	1000	0.0470			
DRAINAGE							
70	Providing, laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 including testing of joints etc complete.						
	100mm dia	metre	100	0.1692			
71	Providing, laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 including testing of joints etc complete.						
	150 mm dia	metre	100	0.2669			
72	P/L cement concrete 1:5:10 all round SW pipes including bed concrete as per standard design.						
	150 mm dia	metre	100	0.5332			
73	Providing and fixing square mounth SW gully trap grade A complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design.						
	100x100mm size P type						
	With FPS bricks class designation 75	each	3	0.0369			

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PART A : CIVIL WORKS :

S.No.	Description	Unit	Qty	"Weightage (%) "	Rate (Rs)	Amount (Rs)	Remarks
74	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) RCC top slab with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) mix foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone 40 mm nominal size) :inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:						
	inside size 90 x 80 cm and 45 cm deep including C.I cover with frame (light duty) ,455 x 610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)						
	With FPS bricks with class designation 75	each	1	0.0582			
75	inside size 120 x 90 cm and 90 cm deep including C.I cover with frame (medium duty) , 500 mm internal diameter, totalweight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg):						
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1	0.1224			
76	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality						
	Circular shape 500 mm internal diameter	each	1	0.0055			
77	Supplying and filling and Back filling CNS upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted using vibratory roller so as to achieve at least 95% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	Cum	500	2.9160			
Total Amount : PART A:				100.00			

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ANNEXURE -B OF PRICE BID FORMAT

Section B:
BOQ and Weitage for Proposed Construction & Development of Open Storage Yard and closed storage shed, including Civil,Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.

Part B: Electrical Works

S.no	Description	Unit	Qty	"Weightage (%)	Rate	Amount	Remarks
I	II	III	IV	V	VI	VII	VIII
1	Supplying, Installation and commissioning of LED street lighting fixture (60W approx) with minimum 6000 lumen output. Fixture shall have integrated driver, heatsink and shall be supplied with Mounting hardware, Cu. lugs. Fixture shall have lumen efficacy minimum 100lumen/watt, and 35000 burning life and suitable for directly slipping over light mounting bracket made out of 40 mm OD pipe. Make: Bajaj, Philips, CGL, Wiring of fixture from marshalling box shall be carried out using 3 runs of 2.5 Sqmm PVC wires. Termination of Loop in - loop out, 3.5Cx35 Sqmm in the JB shall be in scope.	NOS.	6	2.0353	Bidders not to quote or write anything here	Bidders not to quote or write anything here	
2	Supply and Installation of steel tubular swaged poles, 9 mtr long having ultimate tensile strength 42 kg F/sq. mm conforming to BIS: 2713 (part-II) complete with 300x300x6 mm thick MS base plate for welding at site and size as per configuration given in BIS for 410 SP-28 (113 kg- pole weight). Pole shall be complete with 1.5Mtr Pole Arm, JB for loopin & loop out of 4Cx35sqmm cable, fuse, Cable glands-lugs and minor fabrication as below : i) drilling 20 mm dia hole at about 2.5 mtr from ground level for wire leads from junction box to light fixture. ii) drilling 15mm dia holes at about 0.7 and at 2.5 mtr from ground level and welding 12 mm nuts for using a 12 mm GI bolt for fastening earth conducters. iii) welding required holes for fixing pole cap of street light bracket. iv) welding diametrally 10 mm MS round 30 mm below pole top edge for clipping wire leads .	NOS.	6	7.4627			
3	Supplying and embedding 40 dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required.	Nos	24	0.6052			
4	Supply, Erection and commissioning of weatherproof LED Flood lighting fixture (200W approx) with minimum 20000 lumen output. Fixture shall have integrated driver, heatsink and shall be supplied with Mounting hardware, Cu. lugs. Fixture shall have lumen efficacy minimum 100lumen/watt, 35000 burning life suitable for Pole mounting of Bajaj, Phillips, CGL make only. Wiring of fixture from marshalling box shall be carried out using 3runs of 2.5Sqmm PVC wires. Termination of Loopin-loopout 3.5Cx35 Sqmm in the JB shall be in scope.	NOS.	36	32.0217			
5	Supply and installation of steel tubular swaged poles, 11 mtr long having ultimate tensile strength 42 kg F/sq. mm conforming to BIS: 2713 (part-II) complete with 300x300x6 mm thick MS base plate for welding at site and size as per configuration given in BIS for 410 SP-28 (113 kg- pole weight). Pole shall be complete with 1.5Mtr Long ISMC Channel with Cap at top for mounting Flood lights, JB for loopin & loop out of 4Cx35sqmm cable, fuse, Cable glands-lugs and minor fabrication as below : i) drilling 20 mm dia hole at about 2.5 mtr from ground level for wire leads from junction box to light fixture. ii) drilling 15mm dia holes at about 0.7 and at 2.5 mtr from ground level and welding 12 mm nuts for using a 12 mm GI bolt for fastening earth conducters. iii) welding required holes for fixing pole cap of street light bracket. iv) welding diametrally 10 mm MS round 30 mm below pole top edge for clipping wire leads .	NOS.	18	25.1018			
6	Supplying of LED Tube lighting fixture (2x18W approx) with minimum 3600 lumen output. Fixture shall have integrated driver, heatsink and shall be supplied with Mounting hardware, Cu. lugs. Fixture shall have lumen efficacy minimum 100lumen/watt, and 35000 burning life, Make: Bajaj, CG, Philips	NOS.	35	3.166			
7	Supply, Erection testing & commissioning of Ceiling Fan (1400mm) complete with D/Rod, canopy and Step type Electronic regulator (Appr. 300-600 W). Regulator shall be fixed on the switchboard next to Fan On-Off switch. Make - Bajaj, Crompton, Khaitan, Orient, Usha, Havells. All accessories, hardware like ceiling hooks etc. as required for E&C shall be included in scope.	NOS.	4	0.4682			

Section B:
BOQ and Weights for Proposed Construction & Development of Open Storage Yard and closed storage shed, including Civil, Sanitary, Internal & External Electrification work, Fencing etc. for Railway Electrification Birlanagar - Etawah 386 KM/440TKM Project.

Part B: Electrical Works

S.no	Description	Unit	Qty	"Weightage (%)	Rate	Amount	Remarks
8	Supply, Erection testing & commissioning of Exhaust Fan as per IS-2312, Single phase, 380 mm sweep, 1400 RPM complete with mounting arrangement, grills etc. for TSS battery room. All accessories, hardware as required for E&C shall be included in scope.	NOS.	2	0.3773			
9	Supply, Erection, testing & commissioning of Point Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated, flexible, multistranded Cu conductor single core cable in recessed/surface medium class PVC conduit, with modular switch, modular plate, suitable GI box, 5A Socket and earthing the point with 1.5 sq.mm FRLS PVC insulated, flexible, multistranded Cu conductor single core cable etc. as required. All hardware and accessories like clamp etc shall be supplied by bidder.	Nos	41	2.0145			
10	Supply, Erection, testing & commissioning of Point Wiring for light/ power plug with 2x4 sq. mm FRLS PVC insulated, flexible, multistranded Cu conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm. FRLS PVC insulated, flexible, multistranded Cu conductor single core cable for loop earthing as required.	Mtr	20	0.2741			
11	Supply, Erection, testing & commissioning of 2x15/5A Power socket 6/3 Pin Piano type complete with LED indicator. Make - Anchor, Reador, Roma.	Nos	10	0.3392			
12	Supply, laying, installation & commissioning of cables 4 core x 35 sqmm aluminium armoured PVC insulated cable (four core) conforming to IS 1554 (part-I) (to be used form sheds as well as open storage yard wherever required)	Mtr	350	4.0417			
13	Supply, laying, installation & commissioning of cable 3 core x 10 sqmm aluminium armoured PVC insulated cable conforming to IS 1554 (Part-I)	Mtr	100	0.6525			
14	Supply, laying, installation & commissioning of cables 4 core x 70 sqmm aluminium armoured PVC insulated cable (three and half core) conforming to IS 1554 (Part-I)	Mtr	100	1.7257			
15	Supply, installing and commissioning of 3-phase metering and power distribution board complete with: (1) Incoming SFU TPN 100 Amps -1no, (2) outgoing SFU TPN 32 amps -2nos. (3) outgoing SFU SPN 32 amps -2nos. (4) Outgoing MCB SPN 16 Amps - 8Nos (5) Outgoing MCB SPN 16 Amps with ON/OFF timers & DP 16A contactors - 2Nos 3-phase electronic energy meter - BHEL / L&T / GEC make. ammeter, voltmeter and selector switches for both - AE and Kaycee make. Phase indication lamps, HRC fuses for IC and OG feeders, cable glands, power terminals for cables termination, cable lugs and provision for doubly earthing the panel enclosur. Panel enclosure shall be made of sheet metal thickness not less than 1.6 mm and suitable for out door installation, modular construction, hinged door with locking arrangement, base frame, should have slopped canopy, duly painted with first coat of primer and two coats of synthetic enamel paint (interior with white paint and exterior with light grey as per shade 5, is 630) internal power distribution to devices shall be with al busbars or copper flexible single core PVC cables of 1.1 Kv grade, control wiring with 1.5 sqmm, suitable stool made out of MS structure of 1.2 meter high for mounting of panel with anchoring arrangement at foundation, suitable for bottom entry of cables.	NO	3	15.0512	Bidders not to quote or write anything here	Bidders not to quote or write anything here	
16	Supply and installation of 25*6mm GI strip for earthing of lighting poles erected in 45*75m area and portacabins and electrical equipments	Mtr	288	4.0656			
17	Instalation of earth pit		1	0.5972			
	Total Amount : PART B:			100.00			