

**BHEL:PS-WR**  
**TS: BHE/PW/PUR/KNT-SHED/646**  
**PRICE BID- PART-II ( VOL- II )**

**BOQ FOR CONSTRUCTION OF CLOSED SHED**

<b>BHEL:PSWR:NAGPUR</b>						
<b>RATE SCHEDULE, SECTION - A</b>						
<b><u>CONSTRUCTION OF CLOSED SHED (60MX15M) - 2 No. AT NTPC KORBA (1X500MW)</u></b>						
<b>SL.NO</b>	<b>DESCRIPTION OF WORK</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE IN RS ( IN FIG )</b>	<b>RATE IN RS ( IN WORDS )</b>	<b>Amount</b>
1(A)	EARTH WORK <b>EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH</b> IN ALL KINDS OF SOIL ( <b>EXCEPT HARD ROCK AND SOFT ROCK</b> ) FOR FOUNDATION COLUMNS,RAMPS ETC., SPREADING THE EARTH UNIFORMLY AROUND THE STORE COMPLEX AREA AS DIRECTED BY BHEL ENGINEER AND INCLUDING DISPOSAL OF SURPLUS EARTH INCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	979	M3			
1(B)	EARTH WORK <b>EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH</b> IN ALL KINDS OF SOIL INCLUDING <b>HARD ROCK AND SOFT ROCK</b> (MANUALLY OR MECHANICALLY WITHOUT BLASTING) FOR FOUNDATION COLUMNS,RAMPS ETC., SPREADING THE EARTH UNIFORMLY AROUND THE STORE COMPLEX AREA AS DIRECTED BY BHEL ENGINEER AND INCLUDING DISPOSAL OF SURPLUS EARTH INCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	120	M3			
2	<b>BACK FILLING</b> FOUNDATION AND PLINTH IN LAYERS NOT EXCEEDING 15 CM THICKNESS WITH EXCAVATED SOIL AVAILABLE FROM WORK INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	280	M3			
3	PROVIDING <b>STONE SOLING OF MIN. 250MM THICK</b> BELOW FLOOR OF CLOSED SHED, WALL FOUNDATION,RAMPS AND 300mm THICK BELOW COLUMN FOUNDATION ETC. INCLUDING MURRUM PACKING, WATERING & COMPACTION	573	M3			
4	PROVIDING AND LAYING OF <b>PLAIN CEMENT CONCRETE OF MIX 1:4:8</b> USING 40MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, FLOORING, ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	226	M3			

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5	PROVIDING AND LAYING <b>RCC OF MIX 1:2:4 USING 20MM DOWN SIZE</b> HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER	150	M3			
6	PROVIDING <b>DPC WITH CC 1:2:4 50MM THICK</b> INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.	120	M2			
7	PROVIDING AND FIXING <b>REINFORCEMENT</b> INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER INCLUDING COST OF ALL LEADS, LIFT AND MATERIALS, LABOUR AND MS BINDING WIRE 18/20 GAUGE ETC. COMPLETE.	15	MT			
8	PROVIDING <b>BRICK WORK IN CM 1:6</b> (1 CEMENT & 6 COARSE SAND) USING LOCALLY AVAILABLE BRICKS AS PER DRAWING FOR FOUNDATION, WALL ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING ETC. COMPLETE AND AS DIRECTED BY ENGINEER AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	322	M3			
9	DESIGN, MANUFACTURE, SUPPLY AND ERECTION OF <b>TUBULAR TRUSSES</b> , PURLINS SPACED GENERALLY @ 1.4 M CENTRE TO CENTRE TO SUPPORT ROOFING WITH AC SHEETS AND WIND TIES TO BE PROVIDED ABOVE SHEETS AND PROVIDING AND FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON RCC COLUMNS , GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING CHARGES FROM FABRICATION SHOP TO SITE ETC. COMPLETE. DRAWING ATTACHED WITH TENDER IS INDICATIVE ONLY & DESIGN HAS TO BE OBTAINED FOR TRUSS BEFORE FABRICATION, DULY APPROVED BY BHEL ENGINEER. RATE INCLUDES ALL STEEL SECTIONS, FIXING IN POSITION, LABOUR CHARGES AND COST OF RED OXIDE PRIMER AT FACTORY AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED COLOUR AND QUALITY AT SITE.	29	MT			

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10	PROVIDING AND FIXING <b>6/7MM THICK AC CORRUGATED SHEETS</b> WITH RIDGE CAPS FOR ROOFING INCLUDING GALVANISED IRON J OR L HOOK BOLTS, GI IRON AND BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730.	1974	M2			
11	PROVIDING AND FIXING IN CLOSED STORAGE SHED <b>TRANSLUCENT RMP/FRP SHEETS</b> 1.5MM THICK OF APPROVED MAKE INCLUDING COST OF GI HOOKS/ J OR L BOLTS, NUTS, WASHERS, BITUMEN WASHERS ETC. COMPLETE SO AS TO MATCH WITH AC CORRUGATED SHEETS.	133	M2			
12	SUPPLY, MANUFACTURE AND FIXING IN POSITION OF <b>STEEL VENTILATORS</b> INCLUDING FRAMES & IRON BARRED (GUARD BAR OF SQUARE SECTION @ 100 MM C/C) AND GLAZED WITH 4MM PLAIN GLASS AS PER STANDARD SPECIFICATIONS, RELEVANT IS CODE AND INSTRUCTIONS OF BHEL ENGINEER. THE COST SHALL BE INCLUSIVE OF ALL ACCESSORIES FITTINGS, HOLD FASTS, PAINTING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER ETC. COMPLETE.	16	M2			
13	PROVIDING AND FIXING <b>IPS FLOORING 40MM THICK</b> WITH CEMENT CONCRETE 1:2:4 AS PER STANDARD PRACTICE IN PANELS OF SIZE NOT EXCEEDING 2.0x2.0 M SQ. BY PROVIDING, FIXING GLASS STRIPS.	1800	M2			
14	PROVIDING AND <b>PLASTERING WITH CEMENT MORTAR 1:6</b> OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.					
	(i) EXTERNAL PLASTER 18MM THICK	1709	M2			
	(ii) INTERNAL PLASTER 12MM THICK	1416	M2			

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SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN RS ( IN FIG )	RATE IN RS ( IN WORDS )	Amount
15	PROVIDING <b>WHITE OR COLOUR WASH THREE COATS</b> ON NEWLY PLASTERED SURFACE USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHING OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE TO INCLUDE COST OF ALL MATERIALS INCLUDING COLOURING AGENT, APPROVED ADHESIVE, SCAFFOLDING, BRUSH ETC. COMPLETE.	3177	M2			
16	MANUFACTURE, SUPPLY AND FIXING OF <b>MS ROLLING SHUTTERS</b> AS PER I.S. SPECIFICATIONS, COMPLETE, MECHANICALLY OPERATED FROM IN AND OUTSIDE BOTH AS INSTRUCTED BY BHEL ENGINEER INCLUDING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY (ASIAN OR EQUIVALENT) OVER ONE COAT OF RED OXIDE PRIMER (COST SHALL BE INCLUSIVE OF ALL THE ABOVE COMPLETE).	36	M2			
	<b>TOTAL VALUE OF SECTION-A IN Rs.</b>					

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<b>BHEL:PSWR:NAGPUR</b>						
<b>RATE SCHEDULE, SECTION B</b>						
<b><u>NAME OF THE WORK : INTERNAL ELECTRIFICATION WORK OF BHEL SITE CLOSED SHED AT NTPC KORBA (1X500MW)</u></b>						
SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN RS ( IN FIG )	RATE IN RS ( IN WORDS )	Amount
1	Supplying & Installing Power Distribution Board complete with:	1	Set			
	1) Incoming MCB TPH 100 Amps. - 1 No. 2) Outgoing MCB TPH 32 Amps. - 4 Nos..      3) RCCB DP 25/20 Amps. - 3Nos. 4) Outgoing MCB SP 6 Amps - 6Nos.					
	All RCCBs, MCBs shall be MDS/INDO KOPP make					
	Distribution Boards shall be SIEMENS / MDS / INDO KOPP make with internal busbars, internal wiring, 2 nos. earthing terminals, earth connections, including Glands, Lugs					
2	Providing & Fixing Aluminium Dispersive Luminaire enameled green and white with cast Aluminium flange and nipple suitable for use with GLS lamp, dome 12" diameter, with hanging bracket and 200W GLS lamp of Crompton or equivalent BAJAJ/PHILIPS make, complete.	25	Nos.			
3	Wiring with 2.5 sq mm ISI mark copper wire for above in PVC conduit along with GI earth wire inclusive of all material, labour etc. Complete	25	Per Point			
4	Supplying & Fixing Wall Mounting type LIGHTING PANELS, each with : (1) Incoming MCB TPN -32 Amps - 1No.	2	Sets.			
	(2) RCCB DP 32 Amps - 3Nos                      (3) MCB SP 6Amps - 30 Nos.					
	All MCBs and RCCBs shall be of MDS / INDO KOPP make					
	Lighting Panel shall be SIEMENS/MDS/INDO KOPP make with internal busbars, 2 nos. earthing terminals, earth connections, including Glands, Lugs & wiring from main DB.					
5	Providing Earth Pits with 2" dia., 2.5 Mtr. Long GI Pipes with flange and 8 SWG GI wire with Charcoal, Salt and as per IS 3043. Rate shall be inclusive of all material, labour etc. complete. A brick wall chamber with CI cover for all earth pits shall be provided.	2	NOS.			
	<b>TOTAL VALUE OF SECTION-B IN Rs.</b>					
	<b>TOTAL OF SECTION A &amp; SCTION-B</b>					