



ISO 9001-2000, ISO 14001
and OHSAS 18001 certified
company
SubContract and Purchase
Deptt.

Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector – Northern Region,

Plot No. 25 , Sector - 16A , Noida

Distt. Ghaziabad, NOIDA – 201301.INDIA

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CORRIGENDUM – I

Subject: - Amendment in Price Bid against tender for “Construction and development of BHEL closed storage shed (1No.) for 2 x 500 MW units at Anpara –D TPP of UPRVUNL, UP”.

TENDER NO. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902

BHEL WEBSITE REF: NIT_13198

The Corrigendum contains following amendment and shall form a part of the above tender. This corrigendum is to be submitted, duly signed and stamped, along with the technical bid (Part –I).

1. **PART II – PRICE BID of NIT:** - The already floated price bid along with NIT shall be replaced with the revised Price Bid Rev-I enclosed as ANNEXURE-A.

Tenderer may note that the bid shall be evaluated on the basis of rates quoted in Price Bid Rev-I.

2. All other terms and conditions against this NIT shall remain unchanged.

SDGM/SCT

Tender No. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902

PRICE BID (REV-I)

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ORIGINAL COPY**

TENDER SPECIFICATION

Tender No. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902

FOR

Construction and development of BHEL closed storage shed (1No.) for 2 x 500 MW units at Anpara –D TPP of UPRVUNL, UP.

PART II – PRICE BID (REV-I)



**Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301.INDIA**

Tender No. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902

PRICE BID (REV-I)



ISO- 9001, ISO-14001,
OHSAS-18001 & SA-8000
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Tender No. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902

IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

Tender No. BHEL/NR/SCT/ ANPARA-D /STORE SHED/902**PRICE BID (REV-I)****RATE SCHEDULE (REV- I)****ANNEXURE-A**

Item no	DESCRIPTION OF WORK	QUANTITY AS REQUIRED	UNIT	RATE (IN RS.)	AMOUNT (IN RS.)
	(A) CIVIL WORKS				
C1	Cleaning jungle including uprooting of Rank Vegetation, Grass.bushwood, 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 200 m out side the peripheryof the area cleared.	250.00	sqm		
C2	Surface dressing of the ground including removing vegetation and in eualities not exceeding 15 cm deep and and disposal of rubbish, lead up to 50 m and lift up to 1.5 m in all kinds of soil.	250.00	sqm		
C3	Earth work in excavation in all types of ordinary and hard soil my mechanical means (Hydraulic excavator) / manual means including stacking the excavated soil, dressing of sides and ramming of bottom, dewatering of accumulated water from any source.	150.00	cu.m		
C4	Back filling available excavated earth in trenches, plinth,sides of foundations,etc. including re-excavating the disposed soil excavated earlier, breaking clods, laying all depths and heights in	50.00	cu.m		

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	layers not exceeding 20 cm in depth, consolidating each layer.				
C5	Disposal of surplus excavated earth and debris including re-excavating the deposited soil earlier, transportation, loading, unloading, laying at all depths and heights, leveling and dressing both the area (viz. From where earth is transported and where it is deposited) to required levels and slopes, complete with all lifts as directed.				
a)	upto 1 km	100.00	cu.m		
b)	1km to 2 km	0.00	cu.m		
C6	Preparation and consolidation of subgrade with power road roller of 8 to 12 tonne capacity after , levelling, grading , dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling	2500.00	sqm		
C8	Supply and Laying water bound macadam with specified stone aggregate stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete with supply.	0.00			
a)	SubBase with stone aggregate 63 mm to 45 mm size including stone screening 13.2mm size.	150.00	cum		
C10	Providing and tilling of 1" compacted thickness quarry dust as levelling course compacting the same with 8 to 10 tonne road roller complete in all respect as directed by engineer - in- charge.	150.00	cum		

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C10a	Providing and tilling of 1" compacted thickness murram as levelling course compacting the same with 8 to 10 ton road roller complete in all respects as directed by Engineer-in Charge	12.50	cum		
C11	Supplying the good earth from outside the site including the cost of filling the same within the site in layer not exceeding 20cm in depth & consolidating each deposited layer by ramming and watering including all leads & lifts etc. complete.	100.00	cum		
C12	Providing approved quality Yellow/silver sand and filling the same where required under floors etc., watering, ramming, consolidating, grading and finishing to final levels and slopes for all lifts and leads involved, complete as directed	35.00	cu.m		
C14	Plain cement concrete of mix 1:4: 8 (1 cement: 2 coarse sand and 8, 40 mm down graded stone aggregate) for column, footing, levelling,floors etc., including cost of all materials, lead, lift,labour charges, consolidation, shuttering,curing etc. complete	96.25	cu.m		
C15	Making plinth protection 50 mm thik of cement concrete 1:3:6(1 cement :3 coarse :6graded stone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouting with fine sand including finshing the top smooth	95.00	sqm		

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C16	Providing and laying and laying damp proof course 40 mm thick with concrete grade 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size and applying a coat of residual petroleum of penetration 80/100 of approved quality using 1.7 kg per sq. metre on damp proof coarse after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in KEROSENE OIL.	35.00	sqm		
C17	Providing and fixing at ground level precast 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) cement concrete reinforced with 1.6 mm MS wire in kerbs,RCC sleepers, edgings,drains,etc. as per approved pattern	1.75	cum		
C18	Brick work with class designation 75 in cement mortar 1:6 (1 cement : 6 coarse sand) in foundation, plinth and super structure in thickness of 230 mm including cost of all materials, lead lifts, labour charges, mixing mortar, laying bricks, racking joint	61.25	cu.m		
C19	Brick work with brick of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure in thickness of 115 mm including cost of all materials, lead lifts, labour charges, mixing mortar, laying bricks, racking joints, curing etc	285.00	sqm		
C20	Reinforced cement concrete of mix 1: 1.5:3 (1 cement: 1.5 coarse sand and, 3 : 20 mm down aggregate) for column, footing,Pedestal etc. including cost of materials, lead lifts, labour	96.00	cu.m		

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	charges for concreting, shuttering, curing etc. complete.				
C21	Centering and shuttering including providing all shuttering material, shuttering, propping etc. and removal of form work for : lintels, beams, plinthbeam, girders, bressumers and cantelevers.	352.50	sqm		
C22	Providing and placing mild steel / tor steel reinforcement for RCC work including cost of all materials, labour for cutting, bending, binding, and placing in position complete as per drawing and instruction of engineer.	5.28	MT		
C23	Fabricating and fixing in position, M.S.Holding down bolts with sleeves and washers, nuts and lock nuts etc. including threading of required length and type as per instructions of Engineer I/C	0.00			
a)	Upto 20 mm dia. Bolt	400.00	KG		
C24	Supply fabrication and erection of structural steel beams, channels, plates, steel tubular trusses, purlines, gates, wind ties, base plates, gusset plates, bolts, nuts etc. complete as per drawings, specifications & instructions of engineer including cost of	0.00			
a)	Trusses (medium grade pipes), Purlins side ties, bottom ties	10.50	MT		
b)	structural steel for columns, crane girders, etc	5.25	MT		
C)	Wind ties (Flats) 50x6 mm thick angles box section, sold bars of rails etc.	0.50	MT		

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C25	Steel work in built up section / framed work including cutting hoisting , fixing , in position & applying a priming coat of approved steel primer using structural steel for gates, railing , frames grating etc.	175.00	Kg		
C26	Supplying , fitting & fixing steel rolling shutter , profile type in 18 B.G of approved type of steel lathe section 75 mm wide fitted with coil wire spring to necessitate the fitting of required nos of C.J pulley's on heavy type solid drawn gearless steel tube complete with locking arrangements bothside and outside specially built up side guide channels including,providing a hood for the rolling shutter painting with two coats of approved brand of aluminium paint over a coat of red lead primer complete.	0.00			
a)	Manually Operated	25.00	sqm		
C27	Providing and fixing corrugated asbestos cement sheet 6 mm thick roofing and side cladding fixed with polymer coated J or L hooks bolts and nuts 8mm diameter with bitumen and GI limpet washer complete (upto a pitch of 60 degrees).	902.50	sqm		
C28	Providing and fixing corrugated Transluscent Plastic sheet roofing fixed with GI J or L hooks bolts and nuts 8mm diameter with bitumen and GI limpet washer complete (upto a pitch of 60 degrees) including steel primer and 2 coats of approved paint at overlaps. as per tech. specification.	30.00	sqm		
C29	Providing and fixing non-asbestos	50.00	RM		

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	cement ridges and hips including supply and fixing J or L bolts and nuts bitumen & GI washers etc. complete as per Technical Specification including Bitumen coating at all joints .				
C30	Providing and fixing PVC pipe (2.5 kg/cm ²) of 110 mm dia. as rain water pipe in above item complete in all respect including required shoes, bends, etc	15.00	RM		
C33	Providing and fixing glass trips in joints of terrazo/ cement :concreets, floors 40 mm wide and 4 mm thick	553.00	RM		
C38	Plastering work with cement mortor 1:6 (1 cement : 6 fine sand) 12 mm thick after scrapping and cleaning the masoary joints including scaffolding, cost of materials, labour, mixing , leads & lifts, curing etc. complete.	50.00	sqm		
C39	Plastering work with cement mortor 1:6 (1 cement : 6 fine sand) 15 mm thick after scrapping and cleaning the masoary joints including scaffolding, cost of materials, labour, mixing , leads & lifts, curing etc. complete.	50.00	sqm		
C44	Providing and fixing steel glazed windows and ventilators of operable standard rolled steel section joints mitred and welded with 15 x 3 mm lugs, 10 cm long, with steel lugs embedded in cement concrete blocks 15 x 10 x 10 cm of 1:3:6 (1 cement : 3 coarse	0.75	sqm		
C46	Providing and fixing ISI marked flush door shutters non decorative type , core of block baord construction with frame of ist class hard wood and well matched teak 3	0.50	sqm		

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	ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 30 mm thick including ISI marked stainless steel butt hinges, handle,bolts, complete with necessary screws and other accessories				
C49	Providing three coats of white wash to give a smooth and avon sade including cost of materials clining and preparation of surface scaffolmding etc. complete.	412.50	sqm		
C50	Finishing walls/ surfaces with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade.	200.00	sqm		
C52	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade in two or more coats on new work	12.50	sqm		
F1	1.5 m high fencing with 2 m angle iron 50 x 50x 6 mm posts placed every 3 m centre to centre embedded in cement concrete block, every 15th post last but one end post and corner post shall be strutted on both sides and end post on one side only and providing				
	With G.I. Barbed wire (Payment to be made for per metre of complete fencing)	150.00	Mtr.		
F2	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite directionfor 10 cm length and drilling holes upto 10 mm dia. Etc. complete including a priming coat and two coats of enamel paint	625.00	KG		

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E1	Providing and fixing 1 x 40 Watt Batten type flourescent tube fitting (Crompton / Philips / Bajaj make),fabricated from CRCA sheet steel and finished with stove enamel paint complete with Accessories like fluorescent lamp,copper wound polyster choke, star	18.00	Nos.		
E4	Providing and fixing 1 x 250 W HPSV out door type fittings (Crompton / Philips/BajaJ , complete with lamp, ballast control gear box, fixing clamp etc.	4.00	Nos.		
E5	Providing and fixing of following sweep exhaust fan/ceiling fan/wall mounted fan (Khaitan / Crompton make) single phase alongwith gravity louvers, frame / tripod for holding the motor including making necessary opening in wall, supply & fixing of assembly with grouting bolts, making connections, loop earthing etc.	0.00			
a)	230 MM Sweep	1.00	Nos.		
E8	Providing & fixing of 240 V, 5 / 15 Amp 6 Pin Power socket outlet point (with 15 A switch). Switch / socket to be fitted in suitable size 20 SWG metal type box with 3mm sunmica sheet	4.00	Nos.		
E9	Providing & fixing of 240 V, 5A 3 Pin Power socket outlet point (with switch). Switch / socket to be fitted in suitable size 20 SWG metal type box with 3mm sunmica sheet along with the piano switches and fan regulator	4.00	NOS		
E10	Providing & fixing 5A piano type switch for Light / Fan Control	20.00	NOS		

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	(Anchor make)				
E11	Providing and Fixing of 20/25 mm PVC Conduit (including fittings) for telephone / LAN Connection / Call bell System	0.00	Mtr		
E14	Providing & fixing of 240 V, 20 Amp INDUSTRIAL Power socket outlet point (with 20 A MCB). Switch / socket to be fitted in suitable size 20 SWG metal type box .	2.00	NOS		
E15	Wiring of above power sockets with 4 Sq. mm PVC insulated Copper Conductor wires as per IS, 650 / 1100 V grade including 20 SWG GI earthing wire in PVC medium grade conduit including supply of items.	0.00			
a)	For 15/16/20 AMP Power sockets	4.00	points		
E16	Circuits/ Sub Main wiring in 20/25 mm conduit including supplying of all conduits, clamps, wires, complete	0.00	points		
a)	2×1.5 sq. Mm+ 1×1.5 sqmm earth wire	50.00	RM		
b)	2×2.5 sq. Mm+ 1×2.5 sqmm earth wire	50.00	RM		
E20	Wiring of the following points (including supply of Wires, conduits, clamps, boards, other misc. items) with 2.5 sq.mm colour coaded PVC insulated copper conductor wires as per IS-650/1100 volts grade in surface PVC conduits (medium grade) including laying of 20 SWG GI wire, conduit fitting.__(Fixing of piano type control switches (Anchor make) in suitable sized 20 SWG metal box with 3 mm sunmica sheet	0.00			

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	having provision for fan regulator, 5 Amp switch socket (supplied above) included in scope)				
a)	Light/Fan Point	20.00	points		
b)	Wiring for 5/6 amps socket point	5.00	points		
c)	Wiring for exhaust fan.	1.00	points		
d)	1 x 250 W HPSV out door type fitting. One number 10 A DP switch to be used for controlling 2 fittings. D.P Switches to be fixed on outside of the store shed wall	4.00	points		
E21	Providing and fixing of 32 Amp TPN with HRC fuses along with earth wire. The TPN to be provided on one side of the shed with rain protection cover.	1.00	Nos.		
E22	supply and burying of earths electrode 40 mm dia 3 mtrs long including earthing upto swith board with 8 SWG GI wire	1.00	Set		
E23	Installation and commissioning of 3-ph 4W 400 / 100A Electrical Switchboard (appx size 1600 x 1000 x 2000 mm) . (Foundation will be paid in civil works)	1.00	Nos		
E24	Providing , Installation and commissioning of 24 W Lighting Panel with 10 no 20 A MCB and 14 nos 16 A MCB with 125 A SFU incomer in Sheet metal housing with double door arrangement , including all earthing and statutory requirements .	1.00	NOS		
E25	Providing , Installation and commissioning of 18 W Lighting Panel with 18 nos 16 A MCB with 63 A SFU incomer in Sheet metal	1.00	NOS		

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	housing with double door arrangement , including all earthing and statutory requirements .				
E26	Taking delivery from stores and laying of following type of PVC Insulated, PVC armoured standard aluminium conductor cable confirming to IS:1554-1976 (part 1), glanding with single compression gland, termination of both end in DB & SFU. The cable has to be laid underground on sand cushion including backfilling, susitable clamp, clamping on surface including all materials etc. complete.(Only cable will be issued by BHEL as free issue item and all other materials are to be provided by the contractor).This includes road crossing for which suitable GI Pipe to be provided by the contractor.	0.00			
a)	3 1/2 core x 185 / 300 Sq.mm armoured cable	12.50	RM		
b)	3 1/2 Core x 50 / 95 Sq.mm armoured cable	87.50	RM		
c)	2c/3c/4c upto 16 sq.mm armoured cable	37.50	RM		
E27	Earthing Flat 25 x 6 for Earthing 0.5 mtr. Below ground as trip earth electrode including soldering as required	15.00	RM		
	TOTAL				

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PRICE BID (REV-I)

Note:-

1. The rate shall be entered in figures as well as in words. In case of difference in rates between words and figures, the lesser of the two will be treated as valid rate.
2. Quantity indicated above is tentative and liable to vary depending upon the site requirement.

(Seal and Signature of Tenderer)