

TENDER NO. BHEL/NR/SCT/DARIBA CPP/QUARTER REPAIR/607

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TENDER SPECIFICATION

TENDER NO. BHEL/NR/SCT/DARIBA CPP/QUARTER REPAIR/607

FOR

Miscellaneous Quarter Repair at Dariba CPP, Rajasamand, Rajasthan

PART II – PRICE BID



भारत हैवी इलेक्ट्रिकल्स लिमिटेड
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

PRICE SCHEDULE

TENDER NO. BHEL/NR/SCT/DARIBA CPP/QUARTER REPAIR/607

SI No	CODE	DESCRIPTION OF ITEM	UNIT	TOTAL QTY	RATE Rs	AMOUNT Rs
		(A) CIVIL WORKS				
		EARTHWORK/SITE CLEARANCE/ROADWORK				
1	C1	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 200 m outside the periphery of the area cleared	sqm	800.00		
2	C2	Surfact dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50m and lift upto 1.5m in all kinds of soil.	sqm	800.00		
3	C3	Earth work in excavation in all types of ordinary and hard soil by 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 and keeping the surface dry for subsequent works such as concreting form work etc. and disposal of surplus excavated soil as directed, disposed soil to be neatly levelled and dressed lead upto 50 meters and lift upto 1.5meter complete.	Cu.M	26.00		
4	C4	Back filling available excavated earth in trenches, plinth, slides of foundations etc., including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering complete lead upto 50 Metre and lift upto 1.5 Meter.	Cu.M	10.00		
		PCC				
5	C14	Plain cement concrete of mix 1:3:6 (1 cement : 3 coarse sand and 6, 20 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.	Cu. M	8.00		
6	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 in shelves, slabs, etc. as per approved pattern and placed in position with min. reinforcement.	cum	1.00		
		BRICKWORK				
7	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 joints, curing etc. all complete as per drawing and specification and direction of Engineer In-charge.	Cu. M	16.00		
8	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. all complete as per drawing and specification. 2 nos. MS rods of 6 mm dia are to be provided after every 3rd layer for which no additional payment will be made.	Sq. M	80.00		
9	C21	Centring and shuttering including providing all shuttering material , strutting, propping etc. and removal of form work for : Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	40.00		
10	C25	Steel work in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel for gates, railings, frames, gratings etc.	kg	100.00		
11	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	RM	40.00		
		FINISHING				
12	C38	Plastering work with cement mortar 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.	Sq. M	300.00		
13	C39	Plastering work with cement mortar 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.	Sq. M	300.00		
14	C39a	Repair in Plastering work with cement mortar 1:6 (1 cement : 6 fine sand) 12 mm thick after scrapping old surface and cleaning the masonry joints including scaffolding, cost of materials, labour, mixing, leads & lifts, curing etc. complete.	Sq. M	100.00		
15	C44	Providing and fixing wooden glazed windows and ventilators of pattern and section as existing windows suitably grouted and anchored in brickwork with wooden plugs and screws or raw plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panels complete including painting with two coats of approved quality synthetic enamel paint and the cost of minor repair work, if required to the other portions of the window for even finish, replacement of hinges, bolts, latches, etc. Windows and ventilators will be provided with horizontal steel bars as in existing windows. Measurement shall be made only for the replaced portion of the wooden window. Windows if provided with new wooden framework shall be measured in sqm including frames.	Sq. M	40.00		
16	C45	Providing and fixing 18 mm thick and 150 mm wide bonded commercial plywood pelmets with end coverings including fixing 20 mm diameter aluminium curtain rod with end brackets. The rate includes decorative veneering on both sides etc., complete for windows and doors.	RM	60.00		
17	C46	Providing and fixing ISI marked flush door shutters non decorative type, core of block board construction with frame of ist class hard wood and well matched teak 3 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. Doors if provided with new wooden framework shall be measured in sqm including frames.	Sq. M	100.00		
18	C46a	Providing and fixing ISI marked cupboard door shutters non decorative type, core of block board construction with frame of ist class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 12 mm thick including ISI marked stainless steel butt hinges, handle, bolts, complete with necessary screws and other accessories. Shutters if provided with new wooden framework shall be measured in sqm including frames.	Sq. M	96.00		
19	C49	Providing two coats of white wash to give a smooth and even shade including cost of materials, cleaning and preparation of surface, scaffolding etc. complete. on existing old work after cleaning of surface to receive whitewash	sqm	1000.00		

SI No	CODE	DESCRIPTION OF ITEM	UNIT	TOTAL QTY	RATE Rs	AMOUNT Rs
20	C50	Finishing walls/ surfaces with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade on existing old work after cleaning of surface to receive fresh coats	sq.M	1000.00		
21	C51	Distemping with Oil bound washable distemper of approved brand and manufacture and of required shade to give an even shade (2 or more coats) on existing old work after cleaning of surface to receive fresh coats	sq.M	2400.00		
22	C52	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade in two or more coats on old work	sqm	600.00		
SANITARY/SEWAGE						
23	S1	Providing and fixing white vitreous china water closet squatting pan (Indian type / Oriss pattern WC pan) size 580 x 440 mm with 100 mm sand cast iron P trap, 10 Lit. low level PVC cistern with fittings RS or CI brackets 32 mm dia meter PVC flush pipe with fitting and clamps 20 mm GI over flow pipe with special and mosquito proof coupling of approved design and GI chain and pull complete including fittings, cutting and making good the walls and floors where required after diamantling of existing damaged seat, fittings,etc and its disposal	No.	6.00		
24	S2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, Parryware/Hindware/Seabrid /Orient (Coral) with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid after diamantling of existing damaged seat, fittings,etc and its disposal	No.	6.00		
25	S3	Providing & fixing flat back white vitreous china wash basin 550 x 400 mm size with single 15 mm C.P.brass pillar with R.S. or C.I. brackets painted white 15 cm C.P. brass pillar taps C.P. brass chain with rubber plug, 32 mm dia CP Brass trap and M.I. unions, C.P. waste, C.P. connection, soap dish, waste pipe complete including cutting and making good the walls wherever required under counter complete in all respects after diamantling of existing damaged basin fittings,etc and its disposal	No.	12.00		
26	S4	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040mm bowl depth 200mm after diamantling of existing damaged sink, fittings,etc and its disposal	No.	6.00		
27	S7	Providing and fixing 100 mm sand cast iron grating for gully, floor or Nahanitrap.	each	20.00		
28	S8	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete lwith 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	sqm	4.00		
29	S9	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete	each	12.00		
30	S10	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (Prayag or equivalent).				
	a)	450mm long towel rail with total elgnth of 495mm, 78mm wide and effective hight of 88mm, weighin not less than 170gms.	each	12.00		
31	S12	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality colour and make, weighing not less than 105gms (Prayag or equivalent)	each	12.00		
32	S13	Providing, laying and jointing glazed stone ware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc., complete 100 mm dia pipe.	RM	60.00		
33	S14	Providing, laying, fitting and jointing medium grade GI pipes , confirming to IS 1239 for water lines at various elevations with all fittings stop cock, valve bends, elbows, tees, reducers., etc. making grooves in the brick wall, etc. (Internal work), trenching, refilling etc. (external work) including cost of all materials, labour charges etc. complete as per specifications and drawings.				
	(a)	25 mm dia G.I. Pipe (External work)	RM	60.00		
	(b)	20 mm dia G.I. Pipe (Internal work)	RM	60.00		
	(c)	15 mm dia G.I. Pipe (Internal work)	RM	100.00		
34	S15	Providing and fixing GM full way valve with C.I wheel of approved quality etc. complete.				
	(a)	25 mm nominal bore	No.	6.00		
35	S16	Providing and fixing C.P. brass 15 mm stop cock of approved qulity of weight not less than 250 gms.	NO	24.00		
36	S17	Providing and fixing C.P. brass 15 mm bib cock of approved qulity of weight not less than 250 gms.	No.	24.00		
37	S18	Construction brick masonry manholes of inside size 90x80 cm and 45-60 cm deep with 75 class designation bricks in cement mortar 1: 5 (1 cement : 5 find sand), RCC top slabs with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm size), foundation concrete 1:1:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a foating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded aggregate of 20 mm nominal size) neatly finished complete as per standard design excluding CI manhole cover.	NO.	2.00		
38	S23	Providing and laying soil, waste and vent pipes, centrifugally cast (spun) iron S&S pipes				
	a)	100mm	RM	40.00		
	b)	125 mm	RM	36.00		
39	S24	Supplying and installation of HDPE cylindrical and vertical water tank with closed top of SINTEX or approved equivalent of undermentioned capacity with all necessary fittings including supplying and fixing input and out putlines including support of brick pillars of height of 3 Mtrs each complete.				
	a)	500 Ltr. Capacity tank	per litre	6000.00		
40	S27	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet-100 mm dia	each	24.00		
(B) ELECTRICAL WORKS						

SI No	CODE	DESCRIPTION OF ITEM	UNIT	TOTAL QTY	RATE Rs	AMOUNT Rs
41	E1	Providing and fixing 1 x 40 Watt Batten type fluorescent 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, starter, seat, rotor holder and terminal block duly pre-wired with copper conductor, including connections, fixing on wall, false ceiling or under roof tusties with clamps as required	Nos.	60.00		
42	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.	Nos.	6.00		
43	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.				
	a)	230 mm sweep	Nos.	12.00		
	b)	300 mm sweep	Nos.	12.00		
	c)	Ceiling fan	Nos.	24.00		
44	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	Nos.	36.00		
45	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	Nos.	48.00		
46	E10	Providing & fixing 5A piano type switch for Light/ Fan Control (Anchor make)	Nos.	180.00		
47	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 .	Nos.	12.00		
48	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.				
	a)	Length per point upto 20 m	Points	4.00		
	b)	Length per point upto 30 m	Points	4.00		
	c)	Length per point upto 40 m	Points	6.00		
	d)	Length per Among Points	Points	6.00		
49	E20	Wiring of the following points (including supply of Wires, conduits, clamps, boards, other misc. items) with 2.5 sq.mm colour coated 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 having provision for fan regulator, 5 Amp switch socket (supplied above) included in scope)				
	a)	Long Point (Panel to Switch Box)	Points	50.00		
	b)	Medium Point (Switch Box - first Point/ Socket)	Points	50.00		
	c)	Short Point (among points)	Points	100.00		
	d)	Wiring for ceiling fan and regulator	Points	28.00		
	e)	Wiring for exhaust fan.	Points	24.00		
	f)	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	Points	6.00		
GROSS TOTAL OF ALL THE ABOVE WORKS A+B						

- NOTES:
1. It may be noted that the activities of cleaning, disposal of all rubbish as per BHEL requirements, dismantling of damaged works for repairing,
 2. Incomplete offer received may not be considered for the subject work.
 3. 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.
 4. In case of omission in quoting any rate, the evaluation will be done considering the highest quoted rate obtained against that item but the work , if awarded, will be on the lowest quoted rate obtained against that item.