

**TENDER SPECIFICATION
BHEL: PSSR: SCT: 2038
FOR**

**Renovation of BHEL Guest House
At
Ashok Nagar, Chennai**

**VOLUME –II
PRICE BID**



BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Power Sector – Southern Region
Tek Towers, No.11, Old Mahabalipuram Road,
Okkiyam Thoraipakkam, Chennai - 600097

TENDER SPECIFICATION CONSISTS OF

Tender Specification

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PRICE BID

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PART A

Instruction to Bidders:

1. The quantity indicated in the BOQ in Part C of Price Bid is approximate only and is liable for variation. Payment will be as per actual quantity executed and as certified by BHEL Engineer.
2. Tenderers are requested to affix their company seal and authorized signature in all pages.
3. Bidders shall quote 'Total Amount' in the format enclosed as a separate Excel File in BHEL NIC e-Procurement portal for the subject tender and upload the same under 'Packet details - > Tender covers -> Finance '(Cover Type Description – Price Bid)' and same shall be taken into account for evaluation and awarding and hence, shall be complete in all respect for the full scope of work defined in specification and in accordance with terms & conditions of the tender. Any other entry elsewhere in the price bid shall be treated as Null and Void. Quoting of rates in any other form/formats will not be entertained.
4. The above mentioned 'Total amount' is for the entire Bill of Quantity (BOQ) given in Part -C of the Price Bid.
5. BHEL has pre-fixed the weightages for the amount of individual items of Bill of Quantity with respect to the 'Total Amount' in Part C of Price Bid.
6. Based on the pre-fixed weightages, the amount for the individual items of the Bill of Quantity shall be arrived at. This amount shall be rounded off to the nearest rupee.
7. Based on the quantities of individual item and the amount arrived in Sl. No: 6 above, unit rate of individual items shall be derived. This unit rate shall be rounded off to four decimal places.
8. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed as certified by BHEL Engineer.

Part C : Bill of Quantities**Tender Specification BHEL:PSSR:SCT:2038 for Renovation of BHEL Guest House at Chennai
at BHEL**

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
--	Civil Works	--		
1.0	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead	Sqm	10	.0036474
2.0	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead - For thickness of tiles 10 mm to 25 mm	Sqm	20	.0072947
3.0	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead - Of area beyond 3 sq. metres	Each	1	.0027084
4.0	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	500	.1083375
5.0	Ceiling plaster with 12 mm cement plaster of mix 1:4 (1 cement: 4 fine sand)	Sqm	10	.0072225
6.0	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge - With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	10	.0093892
7.0	Laying vitrified floor tiles of Size 600 x 600 mm (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete - Note: The tiles shall be provided by BHEL	Sqm	20	.0034307
8.0	Laying Vitrified tiles Size 600 x 600 mm (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete - Note: The tiles shall be provided by BHEL	Sqm	2	.0003431

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9.0	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content with water thinnable cement primer on wall and ceiling surface having VOC content less than 50 grams/litre	Sqm	650	.0586828
10.0	Wall and ceiling painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour - Two coats	Sqm	650	.1408387
11.0	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade - One or more coats on old work	Sqm	120	.0455017
12.0	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 $\pm$ 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 $\pm$ 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)	Sqm	3.5	.041078
--	Electrical Works	--		

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
13.0	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required	--		
a	20 mm	Rm	250	.0361125
b	25 mm	Rm	225	.0365639
c	32 mm	Rm	50	.0090281
14.0	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required - For 4 X 6 sq. mm + 1 X 2.5 sq. mm earth wire [From Panel Boards to MCB DB (Main Wiring)]	Rm	40	.02889
15.0	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required - For 2 X 6 sq. mm + 1 X 2.5 sq. mm earth wire [From DB to AC Point (Wiring)]	Rm	125	.0507832
16.0	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required - For 2 X 4 sq. mm + 1 X 2.5 sq. mm earth wire [From DB to Geyser Point (Wiring)]	Rm	100	.0352097
17.0	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required - For 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire [From MCB DB to Power Sockets, Lights, Switch boards (Circuit mains)]	Rm	600	.1787568
18.0	Rewiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface / recessed steel conduit including dismantling as required	Point	40	.1191712
19.0	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required	--		
a	5/6 A switch	Each	40	.0043335

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b	15/16 A switch	Each	10	.0027084
c	3 pin 5/6 A socket outlet	Each	40	.0054169
d	6 pin 15/16 A socket outlet	Each	10	.0013542
20.0	Supplying and fixing of 8 way (4 + 24) TPN DB Door type including the cost of materials, labour, complete - VTPN DB - Incomer: 40A 4P MCB - 1 no; Outgoing: 40A DP RCCB - 3 nos., 6/20A SP MCB - 24 nos.	Each	1	.05778
21.0	Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A	Each	2	.0054169
TOTAL Weightage				1.0