TENDER DOCUMENT (PRICE BID)		
Name of work	:	**Rewiring to Occupied & vacant Quarters for 200 Nos in Township, BHEL, Trichy.**
Tender Schedule No	:	**CT: TS: 002 / 19 - 20**
Estimate / Tender Value	:	**Rs. 34,05,387.51 (Excluding GST)**
EMD	:	**Rs. 68,110.00**
Period of Contract	:	**12 (Twelve) Months**

Important Note:

EMD EXEMPTION WILL NOT BE ALLOWED TO MSME / NSIC VENDORS for works contract. This tender is categorized as a work contract. Hence Tenderers are compulsorily need to remit the required **EMD** in order to participate in the Tender. Tender without corresponding EMD will be summarily rejected and will not be considered for any reasons.

SCHEDULE 'A'

LIST OF WORKS AND PRICES

NAME OF WORK: Rewiring to Occupied & vacant Quarters for 200 Nos in Township, BHEL, Trichy.

I / We _____ have read the condition of tender attached hereto and agree to abide by such conditions. I / We offer to execute the works in **T.S No. CT: TS: 002/ 19 – 20 for a period of 12 (Twelve) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended below **from Page No. 3 to 7.**

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carry out all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I / We bind myself / ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to menus and thus failing which I / We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 68,110.00** lodged with Bharat Heavy Electricals Limited, Tiruchirappalli - 620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

Note: Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the overall percentage quoted by the contractor Below (100 - X %) / At par (100 %) / Above (100 + X %) of the rates provided in Bill of Quantities **appended below from Page No. 3 to 7.**

Sl. No.	Approx. Value of work	Common single Percentage Rate (Below (100 – X)% / At Par (100%) / Above (100 +X) %) to be quoted with respect to the rates provided in the Bill of Quantities (all items as enclosed in the Price Bid of the Tender Document) from Page No. 3 to 7.	
		In Figures	In Words
1.	Rs. 34,05,387.51 (100%) (Excluding GST)		

BHE: P: C: T: 09: **Dt. 05 04 2019**

Note: BHEL estimate rates are given below. Contractor has to quote the overall percentage only {Below (100-X %) / At par (100%) / Above (100+X %)} at page No. 2 both in figures and in words

BHEL / TRICHY – 620 014
CIVIL ENGINEERING DEPARTMENT - TOWNSHIP
BILL OF QUANTITIES

Name of work: **Rewiring to Occupied & vacant Quarters for 200 Nos in Township, BHEL, Trichy.**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
10	Removal of entire old wiring and its accessories completely in Quarters and return all the materials at BHEL stores. Existing wooden plugs shall be removed and all holes in the walls after removal of wiring should be plugged with cement mortar and made good. Removed all materials should be returned separately in each items compulsory as per Engineer's inspection and hand over to Civil Stores.	200	NO	61.88	**12,376.00**
20	Supply and wiring with 2 runs 1.5 Sqmm PVC multistrand copper conductor cable 18 – 20 mm dia. of 1.8 – 2mm thick PVC conduit pipe for lights including providing 1 No. 6A FT switch in 4” x 4” TW box with 3mm hylam sheet cover and an angle holder on a TW round block.	2500	PO	275.93	**6,89,825.00**
30	Supply and wiring with 3 runs 1.5 Sqmm PVC multistrand copper conductor cable 18 – 20 mm dia. 1.8 – 2 mm thick PVC conduit pipe for ceiling fan including 1 No. 6A flush type (FT) switch 4” x 4” TW box with 3mm hylam sheet cover and 1 No. ceiling rose on a TW round block.	700	PO	336.08	**2,35,256.00**
40	Supply and wiring with 3 runs 1.5 Sqmm PVC insulated multistrand copper conductor cable 18 – 20 mm dia. 1.8 – 2 mm thick PVC conduit pipe including supply and fixing of 1 No. flush type (FT) 6A 5 pin socket and 1 No. 6A flush type switch on a 3mm hylam sheet covered TW box of size 4” x 4” and making proper interconnections etc.,	1500	PO	247.64	**3,71,460.00**
50	Supply and wiring with 3 runs 1.5 sqmm PVC insulated stranded copper conductor cable in rigid PVC conduit pipe of 18 – 20 mm dia. 1.8 – 2 mm thick for staircase light with 2 Nos. flush type 2 way switch on a hylam sheet covered TW boxes of size 4” x 4” and an angle holder on a TW round block.	100	PO	495.23	**49,523.00**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
60	Supply and wiring from DB with 2 runs 2.5 sqmm + 1 run 1.5 sq.mm for continuous run of earthing with PVC insulated multistrand copper conductor cable in 18 – 20 mm dia. of 1.8 – 2 mm thick PVC conduit pipe including supply and fixing of 1 No. of 16A flush type switch and 1 No. of 15 A / 16 A pin flush type socket on a 3mm hylam sheet covered TW box of size 8" x 6" necessary interconnection etc.	600	PO	459.89	**2,75,934.00**
70	Supply and wiring with two runs of 4 sq.mm + one run 2.5 sq.mm continuous run of earthing within PVC multistrand / copper conductor cable in 18 – 20 mm dia. of 1.8 – 2 mm thick PVC conduit pipe on wall.	1600	M	77.83	**1,24,528.00**
80	Supply and fixing of 32A /230 / 440V porcelain rewirable fuse unit on the existing EB meter box board.	30	EA	670.31	**20,109.30**
90	Supply and fixing the following on a 3mm thick hylam sheet covered TW box of size 12" x 10" rate includes T.W box also a. 1 No. 8 way MCB DB with all internal connections. b. 1 No. 40A DP Isolator with SP MCB with all internal connections.	200	SET	1167.43	**2,33,486.00**
100	Supply and fixing 1 No. flush type 6 amps 5 pin socket with 1 No. 6 amps flush type switch control for 6 amps 5 pin socket in the existing switch board with necessary interconnections	600	P	38.92	**23,352.00**
110	Supplying and fixing of water tight metal bulk head fitting with lamp holder, guard and glass with 40W BC bulb suitable for CFL Lamp.	200	SET	108.96	**21,792.00**
120	Removal and refixing of Electronic resistance type regulators including necessary connection in the same location. Rate excludes cost of regulator.	600	EA	61.88	**37,128.00**
130	Supply and fixing replacing ELECTRONIC fan regulator, Surface mounting type or Flush type Socket model with mounting box to replace faulty regulator. Faulty regulator should be returned to stores.	100	EA	123.28	**12,328.00**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
140	Supply and wiring with two runs 2.5 Sqmm + 1 run 1.5 sqmm with continuous run for earthing of PVC multistrand copper conductor cable in 18 – 20 mm dia. of 1.8 – 2 mm thick PVC conduit pipe on wall / ceiling.	12000	M	67.22	**8,06,640.00**
150	Supply and fixing of 2 Nos. TW plank of size 350 x 210 x 16 mm with suitable angle iron frame work on wall to accommodate energy meter, cutout and SPN main switch as per EB std. code of practice. Meter box, meter, metal clad switches to be earthed by GI wire, including supply and fixing 1 No. 32 amps 230 / 440V rewirable fuse unit.	5	SET	360.94	**1,804.70**
160	Supply and fixing of 32A / 230V MCDP switch fuse mounted on a teak wood plank of Size 350 x 210 mm x 16 mm fixed on the existing iron frame work.	5	SET	77.83	**389.15**
170	Supply and fixing 32 Amps SPN MCB industrial type Plug and Socket with 20 / 32 Amps MCB control on MS box for AC provision.	15	EA	1185.94	**17,789.10**
180	Supply and fixing weather proof Meter box size 50 x 40 x 20 cm (Approx.) with hinged doors made up of 18 Gauge GI sheet to accommodate meter board with peep through glass for meter reading, locking and meter card pocket arrangement etc. complete.	10	SET	309.38	**3,093.80**
190	Supply and wiring with 3 runs 1.5 sqmm PVC insulated multistrand copper conductor cable in PVC conduit pipe of 18 – 20 mm dia. for exhaust fan including supply and fixing 1 No. 6 Amp flush type switch in 4” x 4” T.W box with 3 hylam sheet cover and providing 1 No. ceiling rose on suitable place. Power connection shall be taken from the nearest existing switch board at kitchen.	200	PO	318.39	**63,678.00**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
200	"Labour charges for fixing the light duty 9" sweep exhaust fan by suitably altering the window / ventilator by removal of glass pane etc. Supply and fixing M.S flat of size 25 x 3 to 4 mm and of length 450 mm (approx.) – 2 Nos. on the window / ventilator with suitable bolts, nuts etc. over which the exhaust fan will be bolted in line, level and alignment. Rate also includes painting the M.S flats with two coats of synthetic enamel paint, cost of fasteners (bolts and nuts, coach screws etc.), labour and all other incidental charges etc. complete. All as per standard specification and instructions of Engineer-in-charge. Exhaust fan will be supplied by BHEL at stores at free of cost.	80	EA	51.56	**4,124.80**
210	Labour charges for fixing of the tube light fitting. (2 Nos round block and fixing wooden screws, 1 mtr plastic wire and 1 No. adopter are contractor scope.	80	EA	51.56	**4,124.80**
220	Supply and fixing of anchor hook type bolt on ceiling and labour charges for fixing ceiling fan. (Fan will be supplied by BHEL stores at free of cost).	50	EA	123.75	**6,187.50**
230	Conveying (all sweeps) ceiling / exhaust / cabin fan from BHEL stores to site and refixing the same in the hook connecting, testing and handing over the fans to the occupant. (Fan will be supplied by BHEL stores at free of cost).	50	EA	51.56	**2,578.00**
240	Supply and erection of earth electrode using 40mm dia. G.I pipe of 2.5 metre length with 50 x 6 mm GI brackets, necessary earthwork excavation of required dimensions, providing alternate layers of salt and charcoal, through bolt, suitable GI funnel with perforated cover for filter on the top of G.I pipe, masonry chamber, RCC cover, all in general conforming to IS 3043.	60	EA	1,959.38	**1,17,562.80**
250	Supply and laying of No. 8 SWG GI wire for earthing.	150	M	7.77	**1,165.50**
260	Removal of the existing O.H service line connection with EB coordination and return to stores with complete set in rolled condition.	1344	M	2.06	**2,768.64**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
270	Supply and stringing of two wire single phase 230 volts, AC supply OH / LT service line with 7 / 20 SWG PVC insulated PVC sheathed stranded copper conductor cable using 2 Nos. of porcelain reel insulator at 0.5m intervals bound with No. 16 SWG copper wire with continuous run of No. 12 SWG G.I wire in the existing G.I / PVC pipes. Rate also includes providing PVC sleeve in the existing GI pipe mouth, end termination of OH service lines and necessary connection in the energy meter etc., No. 12 SWG G.I wire should be connected in EB earth and in meter board without any joint. Restoration of power supply with EB coordination will be the responsibility of the contractor.	1400	M	72.89	**1,02,046.00**
280	Removal of the existing damaged GI pipes and return to stores.	140	M	4.80	**672.00**
290	Supply and fixing of 20 mm dia G.I. pipe class A with necessary bend and painted MS clamps. Service pipe should be rigid with stay wire / clamps.	100	M	92.81	**9,281.00**
				Total	**34,05,387.51**