



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-34/15-16, Dt: 14.12.2015

PRICE BID

Item no.: 2

Name of work:- Providing of electrical lighting works and other associated works for silicon storage shed at 02 block.

SCOPE OF WORK:

The works are to be carried out in accordance with IE rules 1956.

The quantities indicated are tentative and may increase or decrease. Any other works not mentioned but required for completion of the project are to be carried out by the contractor.

The contractor should follow all the statutory requirements, Environmental Management System (EMS), Occupation Health and Safety Management System (OHSAS) while executing the work.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Supply of Medium Bay Type Light Fittings of 250 W Rating Make: Philips Model: HPK 225 1 X HPL - N250W NB GL	28	Nos.	5,610.00	1,57,080.00
2	Supply of Bulbs suitable for 250W Medium Bay Light Fittings of above make. Make: Philips Model: HPL - N250W / HPIT PLUS 250W Lamps	28	Nos.	1,000.00	28,000.00
3	Shifting, Assembly, Fixing, Testing & Commissioning of 250W 230V Metal Halide Medium Light Fittings. Contractor has to make fixing arrangement of light fitting with truss.	28	Nos	400.40	11,211.20
4	Supply and Installation of wiring circuits for light fittings on Roof with PVC insulated single core 4 sq.mm copper wire of make Finolex / Rediant / Finecab / Havells / L&T run on Reel insulators & in trunking (from DB to Truss).The cable must be bound to reel insulators at each bracket with suitable material (nylon tie). Independent neutrals are to be run for each circuit. Phase & Neutral of each circuit to be run on same row insulators. This wiring is meant for 400W, 230V highbay Metal Halide light fittings and one circuit is for two light fittings, Testing & commissioning of the circuit is to be carried out.	14	Ckt	4,032.16	56,450.24

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	Supply & Laying of two runs of annealed 12 SWG (2.5mm dia) GI wire along with reel insulator brackets for earth continuity. The GI wire must be provided with cradle guards at 1.5mt intervals with 12 SWG (2.5mm dia) GI wire. The same cradle GI wire must be extended and run along with trunking and connected to the existing earth flat in the cable trench.	600	RM	13	7,920.00
6	Supply and Installation of MS angle bracket with 5 nos of 1100 V grade Porcelain Reel Insulators for running phase & neutral wires for each circuit suitable for the above wiring. Brackets are to be painted and clamped suitably to the roof trusses.	28	Nos	259.60	7,268.80
7	Supply , Installation and Alignment of Trunking of 120 x 70 mm of 18 gauge GI/MS sheet trunking for wiring to mediumbay fittings at a height of +6 to 8 Mtrs above ground level. The trunk should have one side detachable similar to existing one and should be bolted after wiring. The trunk is to be installed on steel / RCC columns by providing clamps at intervals of 0.75 Mtrs. The trunk should be complete with all accessories like clamps etc.	40	Mtr	506.00	20,240.00
8	Supply and Erection of Earth pits for Equipment body earthing with 65mm dia GI pipe Medium (class-B), strictly as per IS: 3043, 3000mm long with holes of 12mm dia at 150mm apart at random & 50x6x260mm MS Earthing plate welded to pipe as per drawing. The work including supply of material for alternate layers of charcoal(75kgs), salt(150kgs) and making RCC/brick chambers with MS/cast iron cover. Contractor shall dig 300mm depth and 200mm width trench in the soil for laying the earth flat from earth pit electrode to earth mat/equipment.	2	Nos	6,143.44	12,286.88
9	Supply and Fixing of 230V, 150W Street Lighting Luminaire with 150W SON Tubular bulb. Fitting is to be provided with BHEL free issued GI Pipe neatly bent (120 degrees) and fixed at a height of 5 Mtrs. / as per site Engineers instructions / as required by site conditions. Testing and commissioning. Make: Philips Model: SRX05 1XSON 150W	4	Nos	7,583.00	30,332.00
10	Shifting and execution of Equipment earthing with 50x6 / 25x3mm GI flat.	250	Mts	19.68	4,920.00
11	Shifting and laying of LT power PVC armoured Al cable including Dressing.				-
	i) 31/2C X 185sq.mm	300	Mts	18.04	5,412.00
	ii) 31/2C X 35sq.mm Al cable	100	Mts	10.66	1,066.00
	iii) 4C X 16 /10/6/4sq.mm	200	Mts	9.84	1,968.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	iv) upto 4C X 2.5 sq.mm	300	Mts	9.02	2,706.00
12	Shifting and laying of LT copper power cable including Dressing				
	i) 4C X 35/16sq.mm	100	Mts	12.30	1,230.00
13	Power cable termination including supply of cable glands & lugs (Aluminium).				
	i) 31/2C X 185sq.mm	2	Nos	787.20	1,574.40
	ii) 31/2C X 35sq.mm Al cable	4	Nos	234.52	938.08
	iii) 4C X 16 /10/6/4sq.mm	4	Nos	194.34	777.36
	iv) upto 4C X 2.5 sq.mm	44	Nos	123.00	5,412.00
14	LT Copper Power cable termination including supply of cable glands & lugs(copper).				
	i) 4C X 35/16sq.mm	2	Nos	241.90	483.80
15	Excavation of cable trench(500x600mm)				
	i) In soil, excavation of 600mm deep and 500mm width trench, supply & spreading of sand, supply & laying of bricks & shabad stone as per IS:1255 1983 and back filling after cable laid with marking plates.	100	Mts	281.26	28,126.00
	ii) Cutting of Road, RCC & Hard rock	25	Mts	356.70	8,917.50
	iii) Supply & laying of 9" dia 2 M long RCC hume pipes at Road and Railway track crossings.	10	Nos	624.84	6,248.40
16	Supply and Installation of MCB DB with TPN 415V, 8 way (for lighting circuits) consisting of 10 to 20A -- 8 nos MCBs on each phase with double door metallic cover having transparent window, sheet enclosed, dust & vermin proof. Model S210 of STANDARD/ KOPP MAKE along with controlling 100A ICTPN (sheet enclosure, Standard/KOPP make) switch fuse unit with HRC fuses, cable entry & reverse entry box, cable glands, PVC marking ferrules etc. It is to be concealed in the wall or as per the site engineer's instructions. The job includes labelling / writing the connection chart inside the door with WHITE duco paint as required, double earthing, testing & commissioning.	1	Nos	20,325.00	20,325.00
17	Shifting, Erection and Commissioning of 3 phase Fuse Distribution Board (FDB) as per site engineers instruction.				
	a) 63A, 12 way	1	Nos	2,050.00	2,050.00
18	Shifting, Fabrication & Erection of BHEL free issue steel for cable tray/equipment supports etc. Scope includes supply and apply of two coat red oxide paint as per site engineer instructions.	1	MT	7,434.12	7,434.12

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
19	Shifting, Assembly, Erection and commissioning of 3-phase, 36" Man coolers along with 16A TPN & DOL starter.	6	Nos	1,820.00	10,920.00
20	Shifting and Erection of cable trays upto 600mm width. The job includes fabrication of cable tray bends wherever required as per site engineer instructions.	200	Mts	41.00	8,200.00
21	Shifting and Erection of CFSU cast iron switches along with HRC fuse links and reverse cable entry box on top and cable entry box at bottom for machines.				
	a) 63A	1	Nos	746.2	746.20
	Total Value of work			₹	4,50,243.98

Note:

1	A penalty of 0.5% of the gross value of work shall be levied for every weeks or part there of non-execution/delay in the execution of work subjected to maximum penalty of 10% of the gross value of total part executed.
2	The above rates are exclusive of SERVICE TAX .
3	The Contractor has to submit separate Service tax invoice along with RAB (Running Account Bill)
4	The quantities indicated in the schedule are tentative and may increase or decrease or delete.
5	Any other works not mentioned but required for completion of the project are to be carried out by the contractor with mutually agreed rates and vetted by finance.
6	The contractor shall mark with paint on all panels regarding power cables size & FROM/TO destinations.
7	Contractor shall shift the materials from different locations inside the factory to the project site and return back the left over materials after completion of the work to the project stores or as per the instructions of the site engineer.
8	The above estimate is inclusive of VAT.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		