

**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM:: HYDERABAD::32

FACTORY CIVIL &amp; PROJECTS DEPARTMENT

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<b>SCHEDULE-A</b>		Tender Notice No.			
PROJ-EC/E&M/OT-11/2014-15 Dt.19.05.2014					
<b>PRICEBID</b>					
Name of work: <b>ADDITIONAL WORKS FOR 125T NEW BALANCING TUNNEL</b>					
<b>SCOPE OF WORK:</b>					
1. Shifting, assembly, erection of 200 KW 400V Rotor heating system in control room.					
2. Supply and fixing of PVC Pipes,bends junction boxes etc.					
3. Shifting and execution of equipment earthing etc.					
<b>SI.No</b>	<b>Work Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate / Unit</b>	<b>Total Amount</b>
1	Erection of the following equipment for Rotor Heating System.				
	a) Shifting , Assembly, Erection of 200KW, 400V Rotor Heating System in Control room. Approx. Size: 2500 x 1500 x 2500 mm & Wt 1.0 Tons.	No	1	5,300.00	5,300.00
	b) Job includes mounting / Erection of Human Machine Interface (HMI) in Control Desk. Approx. Size: 200x50x100mm , 10kgs wt.	No	1	1,240.00	1,240.00
	c) Shifting & Erection of Cable Terminal Box near Shell Circular Door.	No	1	1,820.00	1,820.00
2	Supply and Fixing of the following for laying LAN & Telephone cables in Control room and Annexe rooms. The PVC pipe is to be neatly clamped to wall as per the instructions of the site engineer. The job includes supply of suitable MS clamps with wooden gatties & screws.				
	a) 40mm dia PVC Pipe	Mts	135	96.00	12,960.00
	b) Suitable PVC Bends	Nos	30	40.00	1,200.00
	c) Suitable PVC / Metal Junction Boxes for pulling the cable.	Nos	12	42.00	504.00
3	Supply and Fixing of the following for laying LAN & Telephone cables in Control room and Annexe rooms. The Ripper Casing (Modi make) is to be neatly fixed with suitable screws & wooden gatties on the wall paneling as per the instructions of the site engineer.				

Contractor's Signature

Accepting authority Signature

	a) 32mm Ripper casing	Mts	100	72.00	7,200.00
	b) Suitable L- bends	Nos	25	26.00	650.00
	c) Suitable T- bends.	Nos	15	25.00	375.00
4	Shifting and Erection of cable trays upto 600mm width.The job includes fabrication of cable tray bends wherever required as per site engineer instructions.	Mts	50	50.00	2,500.00
5	Shifting and execution of Equipment earthing with 50x6 / 25x3mm GI flat.	Mts	100	24.00	2,400.00
6	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.	MT	2	9,066.00	18,132.00
7	Supply of 6A, 230V single phase Spike Guard with fuse protection and four sockets with individual ON / OFF switches. Anchor / Maru Make.	Nos	10	385.00	3,850.00
8	Supply and Fixing of 230V Bulkhead luminaires with Toughened Frosted glass cover and GLS 60W SUPERLUX bulb. Philips Make, Model: NXC101 1xA60-60W-CL B22. These fittings are to be fixed on RCC wall or as per the instructions of site engineer in shell circular door pit.	Nos	4	800.00	3,200.00
9	Supply and Fixing of 230V, 150W Street Lighting Luminaire with 150W SON Tubular bulb. Philips Make, Model: SRX05 1xSON150W. Fitting is to be provided with BHEL free issued GI Pipe neatly bent (120degrees) and fixed at a height of 5 Mtrs. / as per site Engineers instructions / as required by site conditions. Testing and commissioning.	Nos	10	6,890.00	68,900.00
10	Supply and Installation of MCB DB with MCB 415V, 4 way consisting of 10 to 20A -- 4nos MCBs on each phase , sheet enclosed, dust & vermin proof. Type KSTIL of STANDARD/ KOPP MAKE along with controlling 63A ICTPN in sheet enclosure with HRC fuses, PVC marking ferrules etc. It is to be fixed on a neatly fabricated steel frame and mounted on to walls or as required for lighting distribution. The job includes painting of steel frames, labelling / writing the connection chart inside the door with WHITE duco paint as required, double earthing, testing & commissioning.	Nos	1	10,622.00	10,622.00
11	Supply and execute the surface MS Pipe wiring with 1.5 sq. mm 660 / 1100. V. Grad PVC insulated copper wire multi strand of make Finolex / Rediant / fincab/ Havells/ L&T. In PVC pipe of suitable dia ( As per IS for wiring points ) with 14 G/1.5sq.mm green colour copper wire for earth continuity. Each light / fan point should be connected to three plate ceiling rose code 30090 of Roma modular type of Anchor or North West make / connector suspended duly with couduit / PVC pipe etc. Each circuit should not have more than 7 points 700 watts.	Pts	4	1,162.00	4,648.00

12	Supply and fixing of 10 Amps 250 V. SP switches for control of light fitting with Roma Type code : 21011 of Anchor or North West make . Fixed on a suitable modular type Metal box with suitable top cover. Testing & commissioning.	Nos	4	282.00	1,128.00
13	Shifting and Erection of 63A ICTPN switch in -5 & -9 mts Pits for Centrifuging Pumping Unit.	No	2	620.00	1,240.00
14	Supply of Commissioning Assistance during machines & other systems commissioning.				
	a) Skilled	Days	10	659.60	6,596.00
	b) Un-skilled	Days	10	579.90	5,799.00
15	Supply of two pair Telephone wire / cable. Make: Delton / Finolex.	Mts	300	7.35	2,205.00
16	Supply and fixing of Power Unit of 25A, 250V box type, 6M Surface mounted Heavy Duty Plug & Socket with DP MCB for Air Conditioner, The Socket should have spring loaded tubes which grip the plug tightly to avoid loose contact and Plug top should have indicator. O/L & S/C protection. North-West make. Cat.No. ACPU6M - BTJ.	Nos	6	1,843.00	11,058.00
17	Supply and installation of concealed / surface PVC pipe / MS Pipe / Ripper Casing wiring with 2.5 sq. mm PVC insulated copper wire multistrand of make Finolex / Rediant / Finocab / Havells / L&T. The wiring point for 25A. power socket including 14 G./1.5sq.mm green colour copper wire for earth continuity. Independent circuit for each socket from power MCB distribution board ( As per IS for wiring point ) Testing and commissioning. The wiring should not be mixed with lighting pipe wiring and it should be run separately in the room / shed at a height of 2 feet from ground level or as per the site engineers instruction.	Pts	6	1,718.00	10,308.00
18	Shifting and laying of LT power/ Signal PVC armoured Al / Cu cable including Dressing. Clamping is to be done neatly to the wall wherever required.				
	a) 4C x 240sq.mm CU arm PVC cable	Mts	280	24.00	6,720.00
	b) 31/2C x 95sq.mm Al arm PVC cable	Mts	250	18.00	4,500.00
	c) 31/2C x 50sq.mm Al arm PVC cable	Mts	100	15.00	1,500.00
	d) 31/2C X 35sq.mm Al cable	Mts	100	13.00	1,300.00
	e) 4C x 16sq.mm Cu flexible cable	Mts	20	12.00	240.00
	f) 4C x 4sq.mm Cu cable	Mts	300	12.00	3,600.00
	g) upto 4C X 2.5sq.mm Cu cable	Mts	400	11.00	4,400.00
	h) 19C x 1.5sq.mm Cu cable	Mts	50	18.00	900.00
	i) LAN /Ethernet cable (CAT 5 Cable 4 Pair)	Mts	300	10.00	3,000.00
	j) Telephone cable	Mts	300	10.00	3,000.00
19	Power cable termination including supply of cable glands & lugs(Copper/Aluminium).				
	a) 4C x 240sq.mm CU arm PVC cable	Nos	4	1,542.00	6,168.00
	b) 31/2C x 95sq.mm Al arm PVC cable	Nos	4	635.00	2,540.00
	c) 31/2C x 50sq.mm Al arm PVC cable	Nos	4	392.00	1,568.00
	d) 31/2C X 35sq.mm Al cable	Nos	2	286.00	572.00
	e) 4C x 16sq.mm Cu flexible cable	Nos	4	237.00	948.00
	f) 4C x 4sq.mm Cu cable	Nos	6	237.00	1,422.00

g) upto 4C X 2.5sq.mm Cu cable	Nos	40	150.00	6,000.00
h) 19C x 1.5sq.mm Cu cable	Nos	2	450.00	900.00
i) LAN /Ethernet cable (CAT 5 Cable 4 Pair)	Nos	10	50.00	500.00
j) Telephone cable	Nos	10	50.00	500.00
<b>TOTAL</b>				<b>234,113.00</b>

**Total: Rupees Two lakh thirty four thousand one hundred and thirteen only**

Note:

- 1.The above rates are inclusive of VAT.
  - 2.Service tax will be paid extra as applicable on submission of valid documentary proof.
  - 3.The works are to be carried out in accordance with IE rules 1956.
  - 4.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.
  - 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 should follow all the statutory requirements, Environmental Management System (EMS), Occupation Health and Safety Management System (OHSAS) while executing the work.
  - 7.All the unused/excess materials issued by BHEL shall be returned to the store / or as directed by the site engineer after use.
  - 8.Contractor has to ensure neatness of the site by removing unwanted materials/scrap materials.
  - 9.Safety : Contractor has to ensure usage of safety shoes, safety helmets, safety belts, safety net & anchoring rope, hand gloves etc. during erection and commissioning for all his personnel.
  10. The contractor shall mark with paint on all panels regarding power cables size & FROM/TO destinations
  - 11.**Penalty:** 0.50 % of the gross value of work will be levied for every week's or part thereof delay by the agency subject to a maximum of 10 % gross value of the work executed after the schedule period of completion.
  - 12.**Payment Terms:** Payment will be based on work % completion/milestone basis.
  - 13.The agencies are advised to visit the site to understand the nature of work/quantum of work in its true perspective to avoid any complications.
- Note: The bidders are required to quote the tender value on percentage(%) basisat excess or less or on par with estimate value in figures and words.

Tender %	In Figures	In Words
Excess		
LESS		
Estimateed Value		