



सत्यमेव जयते

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
Nuclear Recycle Group
Fuel Reprocessing Division

Notice Inviting Tender (Minor Fabrication)

Tender No. BARC/NRG/FRD/ELE/2018/227383 Dated 29/11/2018

Sealed quotations are hereby invited on behalf of President of India by Head FRD, Nuclear Recycle Group Bhabha Atomic Research Centre, Trombay, Mumbai -400085 for following work from the contractors having appropriate license, adequate experience to execute works in **Industrial plants**, staff having PVC and who have similar experience of working with different units of DAE, NPCL etc.

Name of Work: Electrical Installation Work for N33 Shed at PP

1. Tenderer may contact on telephone No. 25591060
2. Sealed quotation shall reach by 18-12-2018 up to 1730 Hrs. by INDIAN SPEED POST. The sealed quotation will be opened on 19-12-2018 day at 14:30 Hrs.

The Sealed Envelope indicating **Company Name, Tender Number, Name of Work and due Date** shall be addressed to

Superintendent E&I, Fuel Reprocessing Division, PP
BHABHA ATOMIC RESEARCH CENTRE
Trombay Mumbai- 4000 94
Attn: Harikumar V, SO/E

3. Offer shall be prepared in Printed letter head of the company and must contain GST and PAN Number
4. Period of Contract shall be 6 months and validity of offer shall be 3 months
5. Guarantee for twelve months (twelve months from the date of completion of the job) for satisfactory performance of the item/work shall be given.
6. The rates shall include working inside BARC with all the stipulations and procedures of Security in force from time to time.
7. Taxes etc. if any shall be clearly mentioned.
8. BARC reserves the right to reject any or all tenders/applications without assigning any reason thereof.

जे.एस.यादव/J. S. YADAV
अध्यक्ष, ईंधन पुनर्चक्रण प्रभाग/
भारत सरकार/Govt. of India
श्रीमती परमाणु अनुसंधान सेंटर/B.A.R.C.
ट्रॉम्बे/Trombay, मुंबई/Mumbai-400005.
Head, FRD
22/11/2018

NO.	DESCRIPTION OF ITEM	Qty	Unit	Rate	Cost
					Rs.
1	<p>TPN Distribution Board: Supply and Installation of 3 Phase, 415 V, Legrand 8 ways per phase Ekinox TPN Distribution Board (DB) IP 43 consisting of 63A 4P MCB as incomer, 63A 2P 30 mA, ELCB-3nos and 6A-20A SP MCB -18 Nos. as outgoing and fabricated top side cable box of height 300 mm . Scope includes surface mounting with necessary brackets/supports, termination of wires, ferruling, dressing, Load balancing, preparing and pasting circuit details inside the DB, providing stainless steel DB Name Plate indicating DB Number/feeder No. Cable Size Etc., Testing and Commissioning.</p>	2	Nos.		
2	<p>VTPN Distribution Board: Supply installation testing and commissioning of Double Door TPN, MCB, vertical distribution board Legrand Ekinox (Incomer 100A, 35KA, 4 POLE MCCB With Earth Leakage Protection + Out goings (8 NOS.) of 25 A, TP MCBs with 300 mm Top and Bottom powder coated adapter boxes, mounting brackets, Scope also includes, Load balancing, preparing and pasting circuit details inside the DB, providing stainless steel DB Name Plate indicating DB Number/feeder No. Cable Size Etc., Testing and Commissioning.</p>	1	Nos.		
3	<p>Flame Proof Light Fittings: Scope includes supply and installation of 40 W, LED flame proof well glass light fitting Crompton Glaze I , FWL1315-40-CDL with mounting brackets. Cable loop in / loop out facility shall be available in the fitting with flame proof type blanking bolt.</p>	40	Nos.		
4	<p>Peripheral Lighting System: Fabrication and installation of LED Lighting System PHILPS - STBRP40870S-70/6000 with 300 mm. long wall mounted cross arm GI pipe bracket with mounting plate and hardware etc. scope includes wire termination testing and commissioning of system. Scope also include fabrication and installation of 100 x 100 x 75 Hot dip GI Junction Box with 4 way 4 Sq.mm connectors, suitable knock out holes mounting hardware etc. all as per site requirements.</p>	15	Nos.		

5	LED Battern: Supply and installation of PHILIPS BN100C LED 40S-6500 PSU L120 battern type light fitting with removable type brackets, mounting hardware, wire termination, testing and commissioning.	10	Nos.		
6	75 mm. Cable Tray: Fabrication and installation cable GI cable tray 75 mm. x 50 mm. Scope includes providing necessary MS brackets, coupler plate, hardware, welding etc. as required at site.	250	Mtrs.		
7	5/15A Socket-Switch Box: Fabrication and installation of 120mm X 100mm X 75 mm. Socket Box. The box shall be fabricated out of minimum 16 SWG Thick MS CRCA sheet, powder coated after vigorous 7 Tank process. The dimensions of box given here is tentative and likely to vary as per dimensions of components being mounted. The scope includes providing Legrand mosaic type 5 A / 15 A Universal, 250 V, 3 pin socket with 15 A SP Switch with suitable modular plate and accessories. Necessary cut-out for mounting the components/modular plate shall be provided on the front facia of the box.	5	Nos.		
8	15A Switch Box Fabrication and installation of 100mm. X 100mm. X 75 mm. Switch Box. The box shall be fabricated out of minimum 16 SWG MS CRCA sheet, powder coated after vigorous 7 Tank process. The dimensions of box given here is tentative and likely to vary as per dimensions of components being mounted. The scope includes providing Legrand mosaic type 15 A, 250 V, SP Switch with modular plate and accessories. Necessary cut-out for mounting the components/modular plate shall be provided on the front facia of the box.	8	Nos.		

9	Lightning Protection for shed: Scope involves supply and installation of 1000mm. Long, 25 mm dia, copper lightning protection rod with spherical end and multiple spikes. Other end of the arrester shall have a flange base for mounting. Lightning arrester shall be installed on RCC column at both end of shed. A piece of Hot dip GI pipe (3000 mm long, 2" C class) shall be fixed to the RCC Column at each end of shed with suitable heavy duty anchor fasteners and hot dip GI clamps. One end of the pipe shall have a flange suitable for bolting the lightning arrester. Hardware used for bolting Lightning Arrester shall be made out of brass. Scope includes termination of copper strip to the lightning arrester	2	Nos.		
10	Earthing Conductor: Supply and installation of 32X6 mm copper earthing strip. Earthing strip shall be fixed on roof tress/brick wall using GI clamps all as directed at site.	150	Mtrs.		
11	Earth Pit Construction of 600 x 600 x 3 mm Copper Plate type Signal grounding pit/station as per IS 6346. Scope includes digging of soil, installation of plate type electrode, providing watering arrangement , filling with charcoal and sault all as per IS 6346. Earthing Chamber shall be of size 600 (L) x 600 (B) x 600 (H) mm. with MS frame and Green colour painted hinged door etc. granite earth pit marker of size 250 x 75 mm shall be provided for the station. Scope shall include 1 No. of 25 x 3 copper conductor from electrode to chamber. . The Contractor shall connect the existing earthing lead to the earth pit. All nut bolts used shall be of Stainless steel. The Contractor shall measure the earth resistance of the earthing station and submit a test report to the Department	4	Nos.		
12	Cabling: Supply and laying of 3 core x 2.5 Sq.mm stranded conductor, XLPE insulated armoured extruded inner-sheathed armoured FRLS cables make Finoflex / RR / Polycab / RPG	1200	Mtrs.		

13	Only laying of (underground) 3 1/2 Core X 35 sq.mm. Copper conductor XLPE insulated armoured cables. Scope includes excavation at a depth of 750 mm. providing bricks, sand, etc.	250	Mtrs.		
14	Cable Termination: End Termination of following (at 15 & 16 Below) copper conductor, XLPE insulated armoured cables using crimping type copper lugs and cable glands.	0			
15	3 core x 2.5 Sq.mm.	15	Nos.		
16	3 1/2 core x 35 Sq.mm.	6	Nos.		
17	Flame Proof Type Cable Termination: End Termination of 3 core x 2.5 Sq.mm. copper conductor, XLPE insulated armoured cables using crimping type copper lugs and flame proof cable glands.	75	Nos.		
18	Straight Through Joint: Supply and installation of RAYCHEM straight through cable joining kit for 4 core x 25 Sq.mm. copper armoured power cable. Scope includes excavation at site at a depth of 1000 mm for retrieval of faulty street light cable and carrying out straight through joining.	2	Nos.		
19	Fence Lighting: Fabrication supply and installation of Security lighting system using Light emitting diode. Fitting shall be PHILIPS - STBRP40870S-70/6000. Fitting to be installed on existing light pole with Fabrication of bracket for mounting the fitting for fence lighting. Bracket to be installed on existing street light pole at a height of 4 Mtrs. so as to illuminate fence. Bracket shall consist of a circular clamp fabricated using 2mm. Thk. MS Strip and a 300mm. long 32/38mm OD GI Pipe as cross arm. The cross arm pipe shall be bolted to the clamp using 8mm. x 80 mm long SS bolt so as to adjust angle of cross arm at site. Applying primer and two coats paint on the bracket shall be included in the scope. Scope shall also include drilling of 12mm hole in the pole, for bringing the wire termination, testing and commissioning.	35	Nos.		

20	Removal of Old Brackets: Removal of old fence light fitting at a height of 6 Mtrs. Scope includes removal of old cross arm assembly (pole cap type), and covering the pole top using a small cap. The covering cap shall be cut/fabricated from the old cross arm assembly. Scope shall include painting of cap.	50	Nos.		
21	MS structural Work: Scope includes supply, fabrication, installation, painting of MS Structural work for DB supports, Light Fittings, additional supports for Lightning Protection / earthing etc. Suitable MS angles, channels, strips etc. as per site requirement shall be supplied.	80	Kg		
22	Cable marker: Fabrication and installation of underground cable marker made out of granite piece of 300 X 300 x 20 mm. thk with PCC base of at least 450 mm. deep. Cable detail shall be engraved in the granite piece.	5	Nos.		
	Total				

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