

Issued to agency:



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

**Name of work: - Renovation of control room in O2 block and providing
sign boards in Factory area.**

SCHEDULE- A

PRICE BID

Tender Notice No:

HY/FCD/OT-04/2009-10, Dt: 19.06.2009

Item no: 02

S.No	Description of the item	Qty	Unit	Rate	Amount
	<i>PART-I - Civil & Interior works</i>				
1a	Fabrication of structural steel work including all materials going into the process of fabrication and forming and integral form of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The rate includes cost of electrodes, gasses etc., The raw structural steel sections will be issued FREE of cost at BHEL stores.	5.00	MT	12579.00	62895.00
b	Erection of Steel work out lined in item No.1 above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	5.00	MT	Rate included in the above item	
2	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	5.00	MT	596.50	2982.50

S.No	Description of the item	Qty	Unit	Rate	Amount
3	Dismantling the existing wooden / aluminum partitions / half height partitions if required into small units including false ceiling and stacking in stores and transportation, loading & unloading, stacking in stores within 2 Kms lead as directed by Engineer-in-charge.	440.00	Sq.m	75.00	33000.00
4	Supply and erection of false ceiling: Providing and fixing in true horizontal level 600 mm x 600 mm false ceiling system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS O / CLASS 1 (BS 476), surface having three coats of white paint - crisp finely granulated with microperforations,back of the tile duly sanded and finished with a coat of protective paint over the formed grid and complete in all respects. Boards, where light fixtures to be fixed shall be handed over to Department. Make Armstrong	300.00	Sq.m	1130.00	339000.00

S.No	Description of the item	Qty	Unit	Rate	Amount
5	<p>Providing, designing, cutting, bending and fixing Aluminium composite cladding of 4 mm thick of approved make (ALUCO PANEL/ALCO BOND/ALEX PANEL) on external façade of size as shown with the water tight system either curved or straight on concrete/masonry surfaces skin materials 0.25 mm thick aluminium sheet (300 5 H6) cover material natural polyethylene aluminium cladding panel of approved colour /shade fixed with excluded aluminium basis frame (50x25x1.5 mm) angle cleats , weather sealants, rivets, GI brackets all as approved, using suitable chemical/anchor bolts on structural steel works including necessary accessories complete in all respects,where ever level difference is shown dummy structural steel backup frame shall be provided including the finished surface shall be protected with 80 microns self adhesive peel of film with TWO layer of white and black tested to withstand atleast 6 months exposure to local weather conditions, without losing the original peel of characteristic or causing stains or other damages with silicon sealant of Dow carning</p> <p>789 or Wacker EL 305 or GE etc,</p>	140.00	One sq m	2310.00	323400.00
				Total Part - I	761277.50
	PART- II - ELECTRICAL WORKS .				
1	Supply,assembling,fixing,Testing & Commissioning Recess mounted decorative luminaries suitable for CFL antiglore 06optics Model:FBS 450/236 D6PW HPF of PHILIPS/GE make with 2*PL-L36W lamp as per customer requirement.	50.00	Each	3750.00	187500.00
2	Supply, asssembling, fixing, testing&commnissing of recessed accent luminaries with matt finish with reflector Model:DN 622(white) of PHILIPS/GE with 1*GLS 100W lamp as per customer requirement.	12.00	Each	660.00	7920.00
3	Supply,assembling, fixing, T&C of 1400mm sweep, 1-phase, 230v. Ceiling fans with Electronic regulator of ORIENT/USHA make, color BROWN/WHITE as per customer requirement.	6.00	Each	1360.00	8160.00
4	Supply & fixing of wall mounting bracket fans 1 phase, 230V of ORIENT / USHA make as per customer requirement	6.00	Each	1200.00	7200.00

S.No	Description of the item	Qty	Unit	Rate	Amount
5	Supply & fixing of 3-phase, 415, 8-way MCB-DB (MCB'S 10A To 32A) with 63A (Sheet Enclosed Tripple Pole) switch with Neutral of make: STANDARD;/OPP of dust and veccum proof Double door. Model: S210)/DSDMTNHODR08.	1.00	Each	9000.00	9000.00
6	Supply & fixing of 2016A, 230V, power sockets of Roma type with switch control along with concealed box Make: ANCHOR/NORTH-WEST.	6.00	Each	365.00	2190.00
7	Supply & Execution of PVC conduit pipe wiring with 1.5 Sq.mm multi strand copper PVC insulated wire above the false ceiling Wire brand: FINOLEX/RADIANT.	37.00	Each	510.00	18870.00
8	Supply & Execution of PVC conduit pipe wiring with 2.5 Sq.mm copper wire as above for power sockets.	6.00	Each	850.00	5100.00
9	Supply & fixing of Double pole MCB of 32A, 220V-DC for Emergency lighting.	2.00	Each	365.00	730.00
			Total Part -II		246670.00
	<i>PART -III - Sign Boards</i>				
1	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50M.	2.00	Cu.m	103.40	206.80
2	Demolishing cement concrete manually / by mechanical means including disposal of material with 2.00 Km lead as per directions of engineer-in-charge.	6.00	Cu.m	413.58	2481.48
3	Providing and laying in position cement concrete of specified garde excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size).	6.00	Cu.m	3257.45	19544.70

S.No	Description of the item	Qty	Unit	Rate	Amount
4	Providing and fixing 10mm thick acid and or alkali resitant tiles of approved make and colour using acid and or aikali reising mortar bedding anf joints filled with acid and or alkali resisting cement as per Is:4457 complete as per the directions of Engineer-in-charge in dado/skirting on 12mm thick mortar 1:4 (1 acid proof cement :4 coarse sand) with acid and alkali resistant tile.	25.00	One Sq.m	909.15	22728.75
5	Supplying and fixing plain PVC pipe(HDPE) of 110 mm dia of approved quality with specials, accessories and approved sealing /jointing compound on the exterior of the inserted portion of the fitting and fixing in position and joining to MS gutters , including cost of all materials ,sealing compound ,labour etc., for all heights complete	6.00	One RM	182.29	1093.74
6	Removing of old A.C. sheets, translucent sheets from roof, side walling of factory blocks and sheds and refixing with new/old sheets at all height including transportation of A.C. sheets and disposing off old sheets to a lead of 2 K.Ms. etc., complete as directed. (Required consumable materials will be supplied by BHEL free of cost at their stores).	24.00	Sq.m	59.56	1429.44
7	Manufacturing supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM - D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC; 67:2001,pasted on subtrate by an adhensive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25X25X3 mm along with theft resistant measures, mounted and fixed with 2 No.s M.S. angles of size 35X35X6 mm to a verticle post made upto MS T-section ISMT 50X50X6 mm welded with base plate of size 100X100X5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint	4.20	Sq.m	2616.55	10989.51

S.No	Description of the item	Qty	Unit	Rate	Amount
	of required shade and of approved brand & manufacturing over priming coat of zinc chromate yellow primer (vertical Ms-Tee support to be painted in black and white colours). Backside aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate primer coat including all leads lifts etc. complete as per drawing, specification and direction of Engineer in-charge. - For Cautionary / warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm.				
			Total Part -III		58,474.42
Grand Total of Part I , Part II & Part III					1,066,421.92

Total : Ten lakhs sixty six thousand four hundred twenty two only.

Service Tax:- The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency

Note : The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

Name of the contractor :

Signature of the contractor

Accounts Representative

Opening Officer