



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

SCHEDULE- A

Tender Notice No:

PRICE BID

HY/FCD/OT-01/2011-12, Dt:- 07.04.2011

Item no : 7

**Name of work: Renovation works at Occupational Health Centre.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Dismantling and removing the existing windows along with frames including chasing brick work/concrete and stacking them as directed by Engineer in charge. Providing & fixing of top fixed, side hung of NCL Seccolor windows fabricated from roll formed section made of pre-painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, as per IS 277 with zinc 150 GSM / Sq. mtr). Section for shutter should be of 46 mm x 46 mm, external frame should be of 46 mm x 52 mm, section for glass beading should be of 18 mm x 25 mm & centre mullion should be 46 mm x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated with nylon receiver & glazed with 4 mm thick, Modi float glass. Gasket made of EPDM corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws.	70.00	One Sq. m.	3000.00	210000.00
2	Removing of wall plastering along with glazed tiles from walls and flooring and skirting, raking out joints and cleaning the surface for plastering including disposal of rubbish to the dumping ground within a lead of 50.00 M.	130.00	One Sq. m.	19.10	2483.00
3	Providing and laying in position cement concrete of specified grade 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 ).	28.00	One Cu. m.	3257.45	91208.60
4	Plastering over roof slab in CM 1:4, 20 mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc complete. (Cement = 7.69 Kgs/Sq. m x 3% WP @ Rs. 20.00 per Kg = Rs. 4.61) upto 10 m height.	280.00	One Sq. m.	115.06	32216.80

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
5	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 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 3 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. Make: Armstrong	60.00	One Sq. m.	1130.00	67800.00
6	Supply and fixing aluminium partition with new anodised box - section of size 101.60 X 44.45 X 2 mm for verticals, Top & Horizontal and 63.50 X 38.10 X 2 mm for intermediate horizontal at spacing suiting to the site requirements as approved . Wherever doors are coming wooden runners are to be provided into box section. This includes grouting of the frame to the floor properly fixed at ends to walls, cost of aluminium section, labour etc; Complete. (The door opening shall be deducted for payment).	18.00	One Sq. m.	1316.00	23688.00
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	1.00	One M T	42700.00	42700.00
8	Supply and fixing 9 mm thick pre-laminated particle board both side laminated exterior grade fixed to frame with rubber beading screw less snap on clips etc., complete.	18.00	One Sq. m.	534.00	9612.00
9	Painting with two or more coats of Oil bound distemper over a coat of primer to new walls at all heights of the building for inside walls over three coats of Altek lappam finish (Only OBD paint will be issued free of cost by BHEL at their stores).	400.00	One Sq. m.	84.10	33640.00
10	Supply and fixing of vertical blinds 100 mm in required colour along with channels, fabric bottom weights etc complete. The basic cost of the blinds shall be in the range of Rs. 70/- per S Ft. The colour and design of the blinds will be selected by department within the specified cost. The agency shall procure the same.	70.00	One Sq. m.	800.00	56000.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
11	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green , black of any size as approved by engineer-in-charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 Kg per Sq.m including pointing in white cement mixed with pigment of matching shade complete.	130.00	One Sq. m.	556.80	72384.00
12	Supply & fixing 10 mm thick best quality approved colour and design machine cut granite tiles of size 600 mm x 300 mm with mirror polished granite stone for flooring, platforms, cladding, vanity counter Facia etc and for any other locations including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of the granite shall be Rs. 650/- per sq. m and tiles will be selected by department within the above specified cost.	35.00	One Sq. m.	810.00	28350.00
13	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc, complete -Upto 10.00 M level.	130.00	One Sq. m.	95.10	12363.00
14	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement ,including consolidation by vibrations for all works up to plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size ).	0.60	One Cu. m.	3732.00	2239.20
15	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts.	6.00	One Sq. m.	180.40	1082.40
16	Supply & fixing of 18 mm thick best quality approved colour and design machine cut mirror polished granite slabs in required sizes for counter wash basins, floorings, vanity counter, claddings, facias etc. including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of granite slabs shall be Rs. 1600/- per Sq. m and granite slabs of required design and colour will be selected by department.	6.00	One Sq. m.	3071.00	18426.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17	Providing and fixing shutters along with frames for toilets that are 30 mm thick factory made PVC rigid foam panelled door and shutters of approved brand made from M.S. tube, 19 gauge thick, size 19x19mm for styles and 15x15mm for top and bottom rails, covered with heat moulded PVC "C" channel of 5mm thick sheet and 30x50mm wide for styles and 5mm thick and 75mm wide PVC sheets for top rail and bottom rail either side and 5 mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, paneling of 5mm thick PVC sheet fitted with M.S. frame welded / sealed to the styles and rails with 5x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc. complete in all respects as per direction of engineer in-charge fixed to frames. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers (For W.C. and bathroom doors).	6.00	One Sq. m.	1830.00	10980.00
18	Supply and fixing of wooden teakwood doors along with teak wood door frame of required size consist teak scantlings of 100 mm x 75 mm and flush door shutter and laminating both door frame and shutter with premium quality teak vineer in required colour and design and malamine polish.Flush door shutter shall be chemically treated and water/insect/borer proof and 30 mm thick. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers.	6.00	One Sq. m.	3000.00	18000.00
19	Supply and fixing of aluminum window grills of size 1.50 Mx1.80M and 1.20 mx1.80M . along with aluminium frame consisting aluminium 'F' (solid) 0.80kg/12' supply and fixing of design of 4" aparture aluminium grill to the above frame work with necessary fixtures. It includes fixing of total frame to the existing brick work, finishing etc complete. (The material shall be aluminium alloy :6063, thick 7 mm, ultimate tensile strength more than 19 kgs/sq.mm)	50.00	One R M	1540.00	77000.00
20	Supplying and fixing plain PVC pipe of 75mm dia (as per IS 4kg/sq.m) 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 joing to MS gutters , including cost of all materials ,sealing compound ,labour etc., for all heights complete	10.00	One R M	55.90	559.00
21	Supply & fixing 15 mm (1/2") dia Nominal Bore GI pipe medium Grade properties, B Class and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete. Make: TATA / Jindal / Zenith	20.00	One R M	131.00	2620.00
22	Supply & fixing 20 mm (3/4") dia Nominal Bore GI pipe medium Grade properties, B Class and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete. Make: TATA / Jindal / Zenith	20.00	One R M	146.00	2920.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
23	Supply & fixing 25 mm (1") dia Nominal Bore GI pipe medium Grade properties, B Class and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same ,cost of labour , all materials etc. complete. Make: TATA / Jindal / Zenith	20.00	One R M	191.00	3820.00
24	Supply & fixing 12.7 mm <b>PVC Connection with brass union nut</b> CP coated.	6.00	Each	67.00	402.00
25	Supply & fixing of new urinary pans "Parryware" make, Ceramic, Model (Cat 0575) "New Magnum Urinal" (600 x 400 mm) along with all accessories, CP spreader brackets etc. regular in colour along with partition for Magnum Urinal ceramic, 'Z' type brackets to be screwed to the wall at the bottom size 810 x 390 mm in regular colour etc. complete.	8.00	Each	3933.00	31464.00
26	Supply and fixing of "Parryware" make ceramic oval shape below counter wash basin size 550 mm x 450 mm, Code No.: 0418, regular in colour (light Ivory) with all accessories like brackets, screws, waste coupling half thread/full thread , connecting hose 2' etc. complete.	4.00	Each	2024.00	8096.00
27	Supply & fixing of new "Parryware" make Indian water closet, Orissa Pan size 580 mmx410mm-Open rim (Code no. C0109) with P/S trap box rim with internal foot treads including ceramic low level flushing cistern 10 liters capacity with Parryware wonder flush kit, regular in colour with all required accessories etc. complete.	2.00	Each	4261.00	8522.00
28	Supply and fixing of new "Parry ware" make EWC ceramic cascade water closet suite with "P/S" trap including Cascade seat cover (Cat 8012) with all accessories regular in colour along with (water closet suite including with attached flush cistern 10 litres capacity with parry ware flush fittings) etc complete.	2.00	Each	6985.00	13970.00
29	Supply and fixing of "Jaquar" make Pressmatic <b>urinal flush valve</b> for urinal pots with all accessories.	10.00	Each	1320.00	13200.00
30	Supply and fixing of "Jaquar" make Pressmatic pillar cock auto closing system, Cat No. 031	6.00	Each	1400.00	8400.00
31	Supply & fixing of 6 mm thick mirror of approved quality "Modi/Saint Gobain float glass", with 6 mm thick hard board back and with best quality Steam beige frame all round the mirror including necessary clamps, malamine polishing to the beading, including cost of all materials etc. complete.	4.00	One Sq. m	1445.00	5780.00
32	Supply and fixing of "Marc" make Oriental series <b>brass stop cock</b> with all accessories.	12.00	Each	698.00	8376.00
33	Supply and fixing of "Jaquar (Allied)" make Health Faucet with 8 mm dia, 1 m long flexible tube and wall hook.	4.00	Each	1325.00	5300.00
34	Supply & fixing of Gunmetal Gate (GM peet) valve as per IS -778 class-I, Indian make heavy type 15 mm (1/2") dia NB size. Make: Zoloto / Leader	2.00	Each	242.00	484.00
35	.. Do .. 20mm dia (3/4"), Make: Zoloto / Leader	2.00	Each	327.00	654.00
36	.. .do ...25mm dia (1"), Make: Zoloto / Leader	2.00	Each	482.00	964.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
37	Dismantling doors, windows and clerestory windows (steel & wood) shutters including chowkhats, architrave, holdfasts etc complete and stacking within 50 meters lead.	12.00	One Sq. m	75.35	904.20
<b>Part - II Electrical Works</b>					
1	Supply & Installation of lighting/fans wiring with 1.5 sq. mm copper conductor single core multi-strand PVC insulated cable run through rigid PVC pipe of suitable size (Sudhakar make) from switch board/FBD to individual points laid on wall/roof including earth continuity for all points with copper wire of 14 SWG with 5 A ceiling rose on teakwood round block.	20.00	One Point	372.00	7440.00
2	---do--- for 10 Amps Power Switch cum sockets for chargers, pedestal fans and emergency lamps with 1.5 Sq. mm cable.	6.00	One Point	372.00	2232.00
3	Supply and fixing of 10 Amps, 250 V SPT switches for control of light fittings with ROMA, Code: 21 011 of Anchor make or equivalent type of North-West make fixed on a suitable Modular type concealed box with suitable top cover for item 1(a).	20.00	One Set	250.00	5000.00
4	Supply & Installation of lighting fixtures with lamps as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods as required for fixing the fixtures in position as directed by architect / consultant, complete in all respects. Supply & fixing of energy efficient light fitting of Philips FBS 450/236 D6 HF wing -C- LX recess mounted direct, indirect light efficiency.	6.00	Each	5175.00	31050.00
5	Supply and installation of Energy efficient light fitting, T5 type 2 x 28 W industrial luminaire with 28W T5 Fluorescent lamps. This includes supply & fixing of downrods, round blocks, connecting the copper twin twisted wire from ceiling rose to fitting and other accessories. Make: Philips/Asian Electronics	4.00	One Set	1800.00	7200.00
6	Supply and installation of 300 mm (12") sweep exhaust fans, which includes assembling and testing of all fans. The fans are to be rigidly fixed to wall with suitable arrangement. Black colour, double ball bearing, low noise, white epoxy powder coated paint finish with bird guard. Make: Orient/Usha/Crompton.	2.00	One Set	1600.00	3200.00

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7	Disconnection of power supply and dismantling of existing light fittings, fans, power boards, cables and other accessories. The removed items are to be handed over to concerned section.	1.00	LS	500.00	500.00
<b>Total Value of work</b>				<b>Total Rs:</b>	<b>9,83,230.20</b>
<b>Total : Rs. Nine lakhs eighty three thousand two hundred thirty only.</b>					

**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 bidders are required to quote the tender value on percentage (%) basis at excess or less on par with estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**