

Issued to agency:



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

## SCHEDULE- A

Tender Notice No:

PRICE BID

HY/FCD/OT-17/2009-10 , Dt:- 18.12.2009

Item no : 04

**Name of work : - Construction of Vibro Polishing room at Balde shop -  
 50 M X 10 M - with toilets.**

| S. No | Description   | Approx Qty | Unit | Rate in Rs | Amount (Rs) |
|-------|---|------------|------|------------|-------------|
| 1     | <b>Earth work in excavation in all soils</b> by mechanical means (Hydraulic Excavtors) / 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. | 144.00     | Cu.m | 103.40     | 14889.60    |
| 2     | 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 <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size ).   | 76.00      | Cu.M | 2449.00    | 186124.00   |
| 3     | 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 <b>up to plinth level with 1:1½ :3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size ).  | 172.00     | Cu.M | 3732.00    | 641904.00   |
| 4     | Providing and laying in position specified grade, of <b>Reinforced cement concrete</b> excluding the cost of centering,shuttering, finishing and reinforcement - <b>all work up to plinth level with 1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ) .   | 77.00      | cu.m | 3359.60    | 258689.20   |
| 5     | Granolithic topping of 25 mm thick using 1 cement 1 granite chips of 10mm down graded laid over base concrete when it is green conditions and <b>ironite finishing</b> 12mm thick using a mix of 50Kg of ironite , 200 Kg of cement and 0.30 Cu.m of granite metal 6mm down graded including cost of form work , curing etc. complete.  | 502.00     | Sq.m | 428.50     | 215107.00   |
| 6     | <b>Centering</b> and shuttering including strutting, propping etc. and removal of form work for columns, pillars,piers, beams, girders, bressumers and cantilevers.   | 1280.00    | Sq.m | 180.40     | 230912.00   |
| 7     | <b>Reinforcement for R.C.C. work</b> including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars.  | 25.00      | M.T  | 42700.00   | 1067500.00  |

| S. No | Description  | Approx Qty | Unit | Rate in Rs | Amount (Rs) |
|-------|--|------------|------|------------|-------------|
| 8     | <b>Filling</b> with available excavated earth (excluding rock) in trenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50.00 m and lift upto 1.50 m.  | 55.00      | Cu.M | 45.70      | 2513.50     |
| 9     | <b>Brick work</b> with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6.  | 190.00     | Cu.M | 2357.40    | 447906.00   |
| 10    | Plastering in <b>CM 1:6</b> , <b>20 mm</b> thick to internal and external surfaces of walls including the cost of all materials , labour , curing etc, complete -Upto 10.00 M level.   | 1760.00    | Sq.m | 102.90     | 181104.00   |
| 11    | Plastering over <b>roof slab in CM 1:4</b> , <b>20mm</b> 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 x3% WP@ Rs 20.00 per kg=Rs 4.61) upto 10 m height.  | 550.00     | Sq.m | 115.06     | 63283.00    |
| 12    | Cement Plaster to <b>ceiling</b> /walls with <b>12mm</b> thick cement plaster finished with a floating coat of neat cement of mix 1:3 ( 1 cement : 3 fine sand ) .   | 760.00     | Sq.m | 107.80     | 81928.00    |
| 13    | Supply & Laying of HDPE pipes (PE100) of 4 Kg/Sqcm ( as per IS 4984 - 1995 ) - for 100 mm dia  | 32.00      | Rm   | 274.69     | 8790.08     |
| 14    | Providing & Fixing of top fixed, side hung of <b>NCL Secular windows</b> fabricated from Roll formed section made of pre painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, galvanized as per IS 277 with zinc 150 GSM / Sq. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 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 E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws. | 30.00      | Sq.m | 4046.00    | 121380.00   |

| S. No | Description   | Approx Qty | Unit     | Rate in Rs | Amount (Rs) |
|-------|---|------------|----------|------------|-------------|
| 15    | Supplying and fixing <b>aluminum door</b> with single shutters made out of new anodised aluminum box section of size 44.50x 47.50x 2.00mm for verticals, top and middle rails and 101.60x44.50x2.00mm for bottom rail inclusive of supply and fixing of all aluminum fixtures and fittings such as handles 2 nos, 1 No of tower bolt 12mm dia 200mm long, 1 No of hydraulic door closure of IS specification , 3 nos of 4" long(100mm) but hinges, stopper 1 No and suitable locking arrangement etc. complete . Wherever members are joined wooden runners are to be inserted in the box section for taking hinges, tower bolts, handles, hydraulic door closure and providing necessary rubber bedding for closing of door shutters all as directed by Engineer-in - charge. The rate shall include cost of door frame using aluminium box sections of size 101.60x44.50x2.00 mm. etc. complete all as directed by Engineer in charge . | 15.00      | Sq.m     | 2918.40    | 43776.00    |
| 16    | Finishing walls with <b>acrylic smooth exterior paint</b> of required shade for new work with two or more coats applied @ 1.67 ltr/ 10 Sq.m over and including base coat of water proofing cement paint applied @ 2.20 Kg/10 Sq.m   | 880.00     | Sq.m     | 50.40      | 44352.00    |
| 17    | Applying two or more coats of distemper with oil bound washable distemper of approved brand and manufacture to given an even shade including preparation of the surface, cost of all labour, material and other incidentals including priming coat with cement primer.  | 1640.00    | One Sq.m | 41.55      | 68142.00    |

| S. No | Description   | Approx Qty | Unit | Rate in Rs | Amount (Rs) |
|-------|---|------------|------|------------|-------------|
| 18    | Supply and fixing of <b>Electrically operated rolling shutters conforming to as per IS 6248</b> , Shutter curtain made out of Aluminum Double Wall with 60 mm, OD " C " class Pipe, side Guide 150x2.5 mm thick Top Bracket 6 mm thick, MS Plate and Aluminum Bottom Rail 3.0 mm thick and Angle support 40x40x5 mm thick Angle End to End, Hood Cover 1.00 mm thick, Electrical Gear Operated System with 1 No of Reduxion Gear Box, 1 No Cromption Induction Motor 3 Phase(capacity of the Motor shall be suitable to the size of the doors as mentioned below) with Limit Switch and Reversible Switch make of Bharat Cutter with necessary electrical cabling required for operation of shutter.One coat of Red Oxide paint except shutter curtain. The rolling shutter shall be provided with proper locking arrangement and shall be as per IS 6248. The rate quoted shall include cost of all materials, labour and scaffolding etc complete as directed by Engineer.The measurement will be made on finished item of the work for payment.(The shutter curtain is made out of Aluminium and all the other items). | 18.00      | Sq.M | 7563.80    | 136148.40   |
| 19    | <b>Conveyance</b> of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.  | 50.00      | Cu.M | 56.41      | 2820.50     |
| 20    | Earth work in excavation by mechanical means (Hydraulic Excavators) / manual measn over areas (exceeding 30 cm in depth , 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for <b>Hard Rock</b> (Blasting prohibited).  | 10.00      | Cu.M | 325.25     | 3252.50     |
| 21    | Providing 0.5 M X 0.75 M Deep Cable trench inside Building.   | 75.00      | Rm   | 4817.00    | 361275.00   |
| 22    | Supply and fixing of new urinary pans, "Parry ware" make, ceramic, Model (Cat 0575)- "New Magnum Urinal" (600 mm x 400 mm) along with all accessories, C.P 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, in regular colour etc., complete - The rate quoted shall also include cost of dismantaling exisiting urinary pans with all fittings and handing over to divisional stores.  | 2.00       | Each | 3933.00    | 7866.00     |
| 23    | Supply and fixing with "Parry ware" make Cascade series wash hand basin of size 550 mm x 450 mm oval shape with counter top with centre tap hole, regular in colour with all accessories like brackets, screws etc., complete - The rate quoted shall also include cost of dismantaling exisiting wash hand basin with all fittings and handing over to divisional stores.  | 2.00       | Each | 2024.00    | 4048.00     |

| S. No | Description   | Approx Qty | Unit     | Rate in Rs | Amount (Rs) |
|-------|---|------------|----------|------------|-------------|
| 24    | Supply and fixing of new "Parry ware" make 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) - The rate quoted shall also include cost of dismantling existing water closet with all fittings and handing over to divisional stores.  | 1.00       | Each     | 6985.00    | 6985.00     |
| 25    | Supply and fixing of new "Parry ware" make Orissa pan size 580 mm (Cat 0109/17) with P/S trap box rim with internal foot treads including ceramic low level flushing cistern 10 litres capacity with Parry ware wonder flush kit, regular in colour with all required accessories etc., complete -The rate quoted shall also include cost of dismantling existing Pan with all fittings and handing over to divisional stores.  | 1.00       | Each     | 4261.00    | 4261.00     |
| 26    | Supply & fixing of 6 mm thick mirror of approved quality "Modi float/Saintgobin glass", with 6 mm thick hard board back and with best quality teak wood frame (design beading) all round the mirror including necessary clamps, polishing to the beading, cost of all materials etc. complete.  | 1.00       | One Sq.m | 1445.00    | 1445.00     |
| 27    | Supply & fixing of PVC door along with frame of Syntex make in required size. The door frame made from extruded PVC sections in an overall size of 40 mm x 48 mm having multi chamber cross section with a maximum wall thickness of 2.5 mm $\pm$ 0.3 mm duly reinforced with PVC to be mitre cut at corners and welded. A tie rod to be provided at bottom. Necessary weather seals shall be provided. Sintex doors are made out of PVC section and panels. The door shutter is made out of extruded PVC sections solid core type with usual process variation and having a wall thickness of 2 mm with a variation of $\pm$ 0.3 mm provided with all plastic reinforcement to avoid any type of rusting or corrodes. The shutter frame is mitered and joined at the corners by means of stainless steel screws. The corners of the shutter frame are being reinforced by polymeric reinforcement of the size 120x200 mm and the lock rail is reinforced by 20x18x255 mm size reinforcement. The rate quoted shall include the cost of brass hinges, brass aldrops and brass tower bolts etc. of suitable size and of approved make. | 6.00       | One Sq.m | 2925.20    | 17551.20    |

| S. No  | Description  | Approx Qty | Unit     | Rate in Rs | Amount (Rs) |
|--------|--|------------|----------|------------|-------------|
| 28     | Supply and Fixing door,frame made out of 100 X 75 mm teak wood scantlings including supply and fixing in position single leaf flush shutters of 30 mm thick commercial ply of approved make , supply and fixing anodised aluminium fixtures and fittings , 3 Nos of MS hinges 4" long , 6 Nos of MS hold fasts of 150 X 150 mm made out of 200 X 50 X 6 mm fixed to the frame with suitable screws and painting the sides of the frame coming into contact with, masonry with on coat of bitumen paint etc, complete .( The fixtures and fittings shall consist of 16 mm dia 30 cm long aldrops 1 No. 1 No. of 12mm dia 230 mm long tower bolt and 150 mm long plate handles 2 No.s door stoppers - 1 No.) Bottom 300 mm height is to be fixed with decolam on both sides of the shutters as kick plate. | 2.00       | Sq.m     | 3000.00    | 6000.00     |
| 29     | Supply & fixing "Jaquar" make urinal flushing valves for urinal pots in all accessories/Cat: 1077.   | 2.00       | One Each | 1320.00    | 2640.00     |
| 30     | Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030.   | 4.00       | One Each | 506.00     | 2024.00     |
| 31     | Supply & fixing "Marc" make oyster series brass pillar cocks. (Cat: MOY 1010) with all accessories etc.  | 4.00       | One Each | 519.00     | 2076.00     |
| 32     | Supply & fixing "Marc" make oyster series brass stop cocks. (Cat: MOY 1040) with all accessories.  | 4.00       | One Each | 698.00     | 2792.00     |
| 33 (a) | 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.   | 52.00      | One Sq.m | 556.60     | 28943.2     |
| b      | Supply & fixing of <b>18 mm thick</b> best quality approved colour and design machine cut <b>mirror polished granite slabs</b> 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.  | 20.00      | Sq.m     | 2600.00    | 52000.00    |
| 34     | Supply & fixing in position PVC Pipes of 3" dia of best quality for drainage lines / urinal / hand wash areas including chasing the brick wall, concrete etc and making good the same after fixing the same etc. complete.   | 10.00      | One RM   | 345.56     | 3455.60     |
| 35     | Supplying and fixing CI Nahany traps 1st quality ISI marked conforming to IS: 1729 - 1979 with C.P Grating fixing with white cement as per site requirements with standard practice - 100mm inlet - 75 mm dia (3") outlet pipe - 4 Kgs.  | 4.00       | One Each | 200.00     | 800.00      |

| S. No | Description   | Approx Qty | Unit     | Rate in Rs | Amount (Rs) |
|-------|---|------------|----------|------------|-------------|
| 36a   | Supply & fixing <b>15 mm dia Nominal Bore GI pipe medium Grade properties</b> 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.   | 5.00       | One RM   | 131.00     | 655.00      |
| b     | Do... 20mm dia (3/4")   | 20.00      | One RM   | 146.00     | 2920.00     |
| c     | Do... 25mm dia (1")   | 60.00      | One RM   | 191.00     | 11460.00    |
| 37 a  | Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia  | 1.00       | One Each | 242.00     | 242.00      |
| b     | Do .. 20mm dia (3/4")   | 2.00       | One Each | 327.00     | 654.00      |
| c     | do ...25mm dia (1")   | 1.00       | One Each | 482.00     | 482.00      |
| 38    | Construction of brick masonry chamber of size 23 x 30 Cm (9" x 12") in brick work in CM 1:6 and plastering in CM 1:4, 20 mm for <b>gully trap</b> 150 mmx100mm including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc., complete.  | 1.00       | One Each | 321.00     | 321.00      |
| 39    | Construction of brick masonry chamber of dimension 0.914 x 0.457 x 0.914 m (3' x 1'6" x 3') with brick in CM 1:6 including plastering over both sides with CM 1:4, 20 mm thick and fitted with light weight CI frame and cover of size 0.914 x 0.457 m in CM 1:4 including bed concrete of CC 1:4:8 as required, supplying and fixing one CI steps in brick masonry if necessary if necessary including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed.CI frame and cover of 40 kgs. | 1.00       | One Each | 3226.00    | 3226.00     |
| 40a   | Supplying ,laying ,jointing and testing 101.60 mm (4") SWG pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in Cement mortar 1:5:1 prop. including excavation of trenches and socket pits in anysoil(except rock requiring blasting) up to 914.40 mm(3' 0") depth and refilling with watering and tamping.  | 6.00       | One RM   | 149.00     | 894.00      |
| b     | Supplying ,laying ,jointing and testing 152.4 mm (6") SWG pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in Cement mortar 1:5:1 prop. including excavation of trenches and socket pits in anysoil(except rock requiring blasting) up to 1524 mm(5'.0") depth and refilling with watering and tamping.   | 6.00       | One RM   | 254.00     | 1524.00     |
| 41    | Supply and Fixing PVC Ventilating cowl of 110 mm dia.   | 1.00       | Each     | 14.00      | 14.00       |

| S. No   | Description  | Approx Qty | Unit     | Rate in Rs | Amount (Rs)         |
|---|--|------------|----------|------------|---------------------|
| 42  | Providing and placing on terrace (at all floor levels) of polyethylene water storage tank of 1000 ltrs capacity with double layer approved brand and manufacture as per ISI with cover and suitable locking arrangement and making necessary holes for inlet and outlet and overflow pipes with fittings (ballcock, inlet and outlet nipples) without base support for tank. (Brick work will be paid seperately). | 1.00       | One Each | 6000.00    | 6000.00             |
| <b>Total Rs.</b>  |  |            |          |            | <b>4,353,075.80</b> |
| <b>Total : Rs. Forty three Lakhs fifty three thousand Seventy six 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 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