

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM :: HYDERABAD-502032
(CSR)

Schedule - A Price bid

Tender Notice No.
HY/TA/CSR/OT-01/2015-16;
Item No. 03; Dated: 06.10.2015

Name of work: Construction of Toilets with Small Rest Room - ZPHS Chitkul

| Sl. No | Description | Total quantity | Unit | Rate(in Rs.) | Amount (in Rs.) |
|--------|--|----------------|----------|--------------|-----------------|
| 1 | Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m or more / of any depth 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. complete as directed by Engineer- in- charge | 128.01 | One Cum | 130.80 | 16743.71 |
| 2 | Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means 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 Hard Rock (Blasting prohibited). complete as directed by Engineer- in- charge | 25.00 | One Cum | 212.00 | 5300.00 |
| 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 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size). complete as directed by Engineer- in- charge | 10.66 | One Cum | 3593.30 | 38304.58 |
| 4 | Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering,shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) - complete as directed by Engineer- in- charge | 20.05 | One Cum | 4703.90 | 94313.20 |
| 5 | Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars,peirs, abutments, machine foundations, posts and struts. complete as directed by Engineer- in- charge | 151.18 | One Sq.M | 166.90 | 25231.94 |
| 6 | 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.complete as directed by Engineer- in- charge | 2.40 | One MT | 62250.00 | 149400.00 |
| 7 | Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge. | 20.00 | One Cum | 93.94 | 1878.80 |
| 8 | Filling 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. complete as directed by Engineer- in- charge | 45.00 | One Cum | 83.80 | 3771.00 |
| 9 | Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) complete as directed by Engineer- in- charge | 31.79 | One Cum | 3255.25 | 103484.40 |
| 10 | Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6.complete as directed by Engineer- in- charge | 27.00 | One Cum | 3876.15 | 104656.05 |
| 11 | Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) . complete as directed by Engineer- in- charge | 324.80 | One Sq.M | 156.15 | 50717.52 |
| 12 | Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) . complete as directed by Engineer- in- charge | 32.73 | One Sq.M | 164.50 | 5384.09 |

| Sl. No | Description | Total quantity | Unit | Rate(in Rs.) | Amount (in Rs.) |
|--------|---|----------------|----------|--------------|-----------------|
| 13 | Supply and fixing of top fixed, side hung of NCL Seccolor Ajantha windows & Ventilators 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 120 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 5 mm thick, Modi/Saint Gobain 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. Approximate size of windows 1.30mx0.9m and 3.00mx2.10m -Double shutter without guard bars(grills)... Excise duty the basis of measurement for finished work only. complete as directed by Engineer- in- charge | 4.50 | One Sq.M | 3000.00 | 13500.00 |
| 14 | Supply and fixing of aluminum window grills of size 1.50 Mx1.80M approx and 1.20 mx1.80M approx . along with aluminium frame consisting aluminium 'F' (solid) 0.80kg/12' supply and fixing of design of 4" aperture 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) complete as directed by Engineer- in- charge | 4.50 | One Sq.M | 1540.00 | 6930.00 |
| 15 | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement :2 fine sand) including testing of joints etc. complete - 250mm dia R.C.C pipe. complete as directed by Engineer- in- charge | 8.00 | RMT | 342.45 | 2739.60 |
| 16 | Providing and Laying Damp-Proof Course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse Sand : 4 Graded stone aggregate 12.5 mm nominal size).complete as directed by Engineer- in- charge | 28.00 | One Sq.M | 207.55 | 5811.40 |
| 17 | Providing and fixing 10mm thick acid and alkali resisitant tiles over a bed of 10 mm thick mortar 1:4 (1 acid proof cement :4 coarse sand) of approved make and colour using acid and or aikali reisiting mortar bedding and joints filled with acid and or alkali resisting cement as per Is:4457 complete as per the directions of Engineer-in-charge , | 3.48 | One Sq.M | 207.55 | 722.27 |
| 18 | Plastering over roof slab in CM 1:4, 20mm 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. complete as directed by Engineer- in-charge | 32.73 | One Sq.M | 1075.60 | 35204.39 |
| 19 | Supplying and laying of vitrified tiles of brighter shades and marble design of Premium Quality (1st quality) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of size 600 x 600mmx8 mm thick of approved make. It includes cost of cutting, champering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only. complete as directed by Engineer- in- charge | 36.21 | One Sq.M | 1337.10 | 48416.39 |
| 20 | Supply and fixing of new "Parry ware" make Indian Water Closet, Orissa pan of size 580mm x410mm - open rim (code No. c8109) with all accessories like Parryware flush kit suitable for the above flush tank with all required accessories etc., complete. colour: silky off-white. complete as directed by Engineer- in-charge | 2.00 | Each | 3000.00 | 6000.00 |
| 21 | Interior Finishing: Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade, New Work two or more coats over and including water thinnable priming coat with cement primer. complete as directed by Engineer- in- charge | 32.73 | One Sq.M | 66.70 | 2183.09 |

| Sl. No | Description | Total quantity | Unit | Rate(in Rs.) | Amount (in Rs.) |
|--------|---|----------------|----------|--------------|-----------------|
| 22 | Exterior Finishing: Finishing walls with acrylic smooth exterior paint of required shade, New Work (two or more coat applied @ 1.67 ltr/10 sq.m) over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm. complete as directed by Engineer- in- charge.C25. complete as directed by Engineer- in-charge. | 32.73 | One Sq.M | 67.50 | 2209.28 |
| 23 | supply and fixing of 75mm dia single socket PVC/SWR pipe - 6 kg/sq.cm of make prince/sudhakar/Kisan/supreme or any ISI brand including all bends. complete as directed by Engineer- in- charge | 10.00 | RMT | 144.00 | 1440.00 |
| 24 | 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 any soil(except rock requiring blasting) up to 1524 mm(5'.0") depth and refilling with watering and tamping. complete as directed by Engineer- in- charge. | 10.00 | RMT | 254.00 | 2540.00 |
| 25 | 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 separately).Syntex/Aqua. complete as directed by Engineer- in- charge. | 2.00 | Each | 6000.00 | 12000.00 |
| 26 | Dismantling brick masonry walls for all heights, removing and clearing the debris and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc., complete. | 10.00 | One Cum | 566.60 | 5666.00 |
| 27 | Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete. | 10.00 | One Cum | 1054.10 | 10541.00 |
| 28 | Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030. complete as directed by Engineer- in- charge | 2.00 | Each | 506.00 | 1012.00 |
| 29 | Supply & fixing "Marc" make oyster series brass pillar cocks. (Cat: MOY 1010) with all accessories etc. complete as directed by Engineer- in- charge | 1.00 | Each | 519.00 | 519.00 |
| 30 | Supply & fixing "Marc" make oyster series brass stop cocks. (Cat: MOY 1040) with all accessories. complete as directed by Engineer- in- charge | 1.00 | Each | 698.00 | 698.00 |
| 31 | Providing and fixing shutters along with frames for toilets that are 30 mm thick factory made PVC rigid foam paneled, door and shutters manufactured by M/s. Rajashri 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). complete as directed by Engineer- in- charge. | 3.30 | One Sq.M | 1830.00 | 6039.00 |
| 32 | Supply and fixing in position medium teak wood door frame along with single leaf shutters solid core non - decorative type 30 mm thick of approved quality and brand including 3 No.s MS hinges 10 cm long and 1 no. mortise lock (Godrej make) , using scantling of size 100 mm X 75 mm (including with MS holdfasts of size 230 X 50 X 4 mm - 6 No.s and painting with coal tar to the faces coming in contact with masonry / concrete . including cost of all materials , labour etc. complete as directed by Engineer - in - charge. complete as directed by Engineer-in- charge. | 10.00 | One Sq.M | 3180.00 | 31800.00 |
| 33 | 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. complete as directed by Engineer- in- charge. | 1.00 | Each | 200.00 | 200.00 |
| 34 | 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 gully trap 150 mmx100mm including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc., complete. complete as directed by Engineer- in- charge. | 8.00 | Each | 321.00 | 2568.00 |

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| 35 | 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. complete as directed by Engineer- in- charge. | 2.00 | Each | 3226.00 | 6452.00 |
| 36 | constructing brick masonry manhole in cement mortar 1:4 (1cement:4coarse sand) with R.C.C top slab with 1:2:4 mix (1cement:2coarse sand:4graded stone aggregate 20mm nominal size), foundation concrete 1:4:8mix (1cement:4coarse sand:8graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1cement:3coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement:2coarse sand:4graded tone aggregate 20mm nominal size)finished with a floating coat of neat cement complete as per standard design: Inside size 90x80cm and 45cm deep including C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) with common burnt clay F.P.S (non modular) bricks of class designation 7.5. complete as directed by Engineer- in- charge | 1.00 | Each | 9845.00 | 9845.00 |
| 37 | providing and fixing G.I pipes complete with GI fittings and clamps i/c cutting and making good the walls etc. GI pipes of 15mm diameter complete as directed by Engineer- in- charge (15mm dia nominal bore, external work) | 25.00 | RMT | 142.25 | 3556.25 |
| 38 | providing and fixing G.I pipes complete with GI fittings and clamps i/c cutting and making good the walls etc. GI pipes of 15mm diameter complete as directed by Engineer- in- charge (15mm dia - exposed on walls, Internal work - Exposed on walls) | 25.00 | RMT | 161.60 | 4040.00 |
| 39 | providing and fixing G.I pipes complete with G.I fittings including trenching and refilling etc. 25mm dia nominal bore External work. complete as directed by Engineer- in- charge | 25.00 | RMT | 209.40 | 5235.00 |
| 40 | providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20mm dia nominal bore. complete as directed by Engineer- in- charge | 30.00 | RMT | 161.25 | 4837.50 |
| 41 | providing and fixing wash basin with C.I. brackets, 15mm C.P. Brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required: white vitreous china angle back wash basin size 400x400mm with single 15mm c.p. brass pillar tap. complete as directed by Engineer- in- charge. | 4.00 | Each | 1315.35 | 5261.40 |
| 42 | Supplying and fixing plain PVC pipe of 90mm dia of 4 kg's/cm ² 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. complete as directed by Engineer- in- charge | 12.00 | RMT | 104.00 | 1248.00 |
| 43 | Supplying and fixing plain PVC pipe of 75mm dia of 4 kg's/cm ² 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. complete as directed by Engineer- in- charge | 10.00 | RMT | 144.00 | 1440.00 |
| 44 | supply and execute the concealed / surface PVC/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 perIS for wiring points) with 14 G/1.5 sq.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. complete as directed by Engineer- in- charge | 4.00 | pts | 901.39 | 3605.56 |

| Sl. No | Description | Total quantity | Unit | Rate(in Rs.) | Amount (in Rs.) |
|--|--|-------------------|------|--------------|------------------|
| 45 | Supply and fixing of 10 Amps 250 V. SP switches for control of light fitting and fans with Roma Type code: 21011 of Anchor or North West make. Fixed on a suitable modular type concealed box with suitable top cover. Testing & commissioning. complete as directed by Engineer- in- charge. | 2.00 | Nos | 218.75 | 437.50 |
| 46 | Supply and fixing of 3pin, 250v. 20/16 Amps power socket cum switch with induction Roma type code 21124 and 21077 of anchor make or north west. Fixed on suitable modular type concealed box top cover. Testing & commissioning. complete as directed by Engineer- in- charge. | 2.00 | Nos | 411.13 | 822.26 |
| 47 | supply of ceiling fan with double ball bearing conforming to IS: 374/79 class 1 with the following specifications. 56" (1400mm) sweep, 230v ac 1-phase, white colour, 600mm down rod, ornamental design with gold finish shanks on blades and decorative canopy. Alongwith Electronic regulator of modular type. Anchor Roma, socket type. make: CG/orient/usha/khaitan/Bajaj/Havell's. complete as directed by Engineer- in- charge.C49 | 2.00 | Nos | 2191.53 | 4383.06 |
| 48 | Fixing, connecting and testing of ceiling fan. The job includes supply of anchor roma ceiling rose & 1.5sq.mm copper wire for connection between ceiling rose and fan. Fixing of regulator on the roma switch board. complete as directed by Engineer- in- charge | 2.00 | Nos | 388.00 | 776.00 |
| 49 | Fixing, connecting and testing of 2x36W different types of Tube light/false ceiling fittings. The light fitting shall be fixed with suitable down rod, ball and socket etc and the supply of the material is in the contractors scope. The job includes supply of 1.5sq.mm copper wire for connection between ceiling rose and TL. complete as directed by Engineer- in- charge | 4.00 | Nos | 457.67 | 1830.68 |
| Total Rupees Eight Lakhs Fifty One Thousand Six Hundred Ninty Four and paise Ninty only | | | | | 851694.90 |
| Tender % | In words | In Figures | | | |
| Excess | | | | | |
| Less | | | | | |
| Estimate | | | | | |
| Notes: | | | | | |
| 1 | A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work. | | | | |
| 2 | The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time. | | | | |
| 3 | Service tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor. | | | | |
| 4 | All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL. | | | | |
| 5 | The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work. | | | | |
| 6 | The maintenance period of the work is 12 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill. | | | | |