



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 13 /2010-11 , Dt: - 14.08.2010

**PRICE BID**

Item no : 02

**Name of work : Construction of Buildings and concrete works at K-Gate.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1a	<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.	260.00	Cu.m	103.40	26884.00
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	207.00	Cu.m	122.30	25316.10
2	Providing and laying in position <b>plane cement concrete</b> 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 ).	657.00	Cu.M	2449.00	1608993.00
3	Providing and laying in position specified grade of <b>reinforced cement concrete</b> excluding the cost of centering ,shuttering, finishing and reinforcement ,including consolidation by vibrations for all works <b>up to plinth level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	122.00	Cu.M	3732.00	455304.00
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 ) -	785.00	cu.m	3359.60	2637286.00
5	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts.	1675.00	Sq.M	180.40	302170.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
6	<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.	41.60	M.T	42700.00	1776320.00
7	<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.	200.00	Cu.M	45.70	9140.00
8	<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.	106.00	Cu.M	2357.40	249884.40
9a	Plastering in <b>CM 1:6 , 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.	1400.00	Sq.m	95.10	133140.00
9b	Plastering over <b>roof slab in CM 1:4, 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.	367.00	Sq m	115.06	42227.02
9c	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 ) .	367.00	Sq.m	107.80	39562.60

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
10a	<b>Fabrication of structural steel work</b> 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, gasse etc., The raw structural steel sections will be issued FREE of cost at BHEL stores.	5.40	MT	7563.80	40844.52
b	<b>Erection of Steel work</b> out lined in item No.10a 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.	5.40	MT	3241.60	17504.64
c	<b>Painting at site of all structural steel</b> 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.	5.40	MT	596.50	3221.10
11	Erection of <b>cycle shed</b> of 5 spans including erection of steel posts, trusses and purlins and fixing of Galvalume /A.C. sheet and ridges, using 'J' bolts, nuts, etc., complete as directed by Engineer-in-charge.(labour charges only)	10	Each	7610.65	76106.50
12	Applying two or more coats of distemper with <b>oil bound washable distemper</b> 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.	700.00	Sq.m	41.60	29120.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
13	Applying <b>exterior emulsion paint</b> 2 coats to external new plastered surfaces including curing etc., over a coat of primer ( paint will be issued free of cost by BHEL at their stores).	526.00	Sq m	29.90	15727.40
14	Providing and Fixing in position <b>collapsible steel shutters</b> with channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom Rail of T-iron 40x40x6 mm with 40 mm dia, steel pulles complete with bolts,nuts,locking arrangement, stoppers, handles including applying a primary coat of approved steel primer.	4.62	Sq m	2592.70	11978.27
15	Supplying and laying of <b>vitrified tiles</b> 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 <b>600 x 600mmx8 mm</b> 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.	206.00	Sq.m	950.00	195700.00
16	Supply and fixing of <b>new urinary pans</b> , "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.	5.00	Each	3933.00	19665.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17	Supply and fixing with "Parry ware" make Cascade series <b>wash hand basin</b> 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 .	5.00	Each	2024.00	10120.00
18	Supply and fixing of new "Parry ware" make Indian Water Closet, Orissa pan of size 580 mm x 410 mm - Open rim (Code No. C0109) including PVC Slimline Dual Flush tank (Cistern) of size 475 mm x 318 mm (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.	1.00	Each	3000.00	3000.00
19	Supply and fixing <b>steel windows</b> of approved make including supply and fixing 4 mm thick plain glass with best quality putty, MS handles and peg stays including painting with two coats of synthetic enamel paint over one coat of red oxide paint including supplying and fixing weld mesh 50 x 50 mm (8G x 8 G).The window section and fabrication shall confirm to I.S. 1038.	98.00	Sq.m	1900.00	186200.00
20	Supply and fixing of new "Parry ware" make <b>Orissa pan</b> 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.	4.00	Each	4261.00	17044.00
21	Supply & fixing of <b>6 mm thick mirror</b> 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.	5.00	Sq.m	1445.00	7225.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
22	Providing and fixing <b>shutters</b> 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).	7.00	Sq.m	1830.00	12810.00
23	Supply and fixing in position medium <b>teak wood door frame</b> 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.	17.00	Sq.M	3180.00	54060.00
24	Supply & fixing "Jaquar" make <b>urinal flushing valves</b> for urinal pots in all accessories/Cat: 1077.	5.00	Each	1320.00	6600.00
25	Supply & fixing "Marc" make oyster series <b>brass bib cocks</b> . With all accessories / Cat: MOY 1030.	5.00	Each	506.00	2530.00
26	Supply & fixing "Marc" make oyster series <b>brass pillar cocks</b> . (Cat: MOY 1010) with all accessories etc.	5.00	Each	519.00	2595.00
27	Supply & fixing "Marc" make oyster series <b>brass stop cocks</b> . (Cat: MOY 1040) with all accessories.	3.00	Each	698.00	2094.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
28	Supplying and fixing position <b>PVC tank of 1000 Liters</b> capacity double layer of approved make including giving inlet and out let connections, cost of all materials like GI specials, labour etc, complete	2.00	Each	6000.00	12000.00
29	Providing and Laying <b>ceramic glazed floor tiles 300 X 300 mm</b> (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make in colours such as white , Ivory , grey , fume red brown , laid on 20mm thick cement mortar 1:4 (1cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc; complete.	60.00	Sq m	598.65	35919.00
30	Providing and fixing 1st quality <b>ceramic glazed wall tiles</b> 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 poniting in white cement mixed with pigment of matching shade complete.	173.00	Sq.m	556.80	96326.40
31a	Supplying and fixing <b>plain PVC pipe of 75mm dia (as per IS 4kg/sq.m)</b> 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	RM	80.78	807.80
b	Supplying and fixing <b>plain PVC pipe of 110mm dia (as per IS 4kg/sq.m)</b> 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	45.00	RM	107.80	4851.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
32	Supplying and fixing <b>CI Nahany traps</b> 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	Each	200.00	800.00
33a	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.	10.00	RM	131.00	1310.00
b	.. Do... 20mm dia (3/4")	50.00	RM	146.00	7300.00
c	.. Do... 25mm dia (1")	50.00	RM	191.00	9550.00
34a	Supply & fixing of <b>Gunmetal Gate (GM peet) valve</b> as per IS -778 class-I, Indian make heavy type 15 mm (1/2") dia NB size.	2.00	Each	242.00	484.00
b	.. Do .. 20mm dia (3/4")	4.00	Each	327.00	1308.00
c	.. .do ...25mm dia (1")	4.00	Each	482.00	1928.00
35	Supplying ,laying ,jointing and testing 152.4 mm (6") <b>SWG pipes</b> 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.	50.00	RM	254.00	12700.00
36	Construction of <b>brick masonry chamber</b> 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.	4.00	Each	3226.00	12904.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
37	Construction of <b>brick masonry chamber</b> 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.	6.00	Each	321.00	1926.00
				<b>Total</b>	<b>82,20,486.75</b>
<b>Total : Rs. Eighty two lakhs twenty thousand four hundred eighty seven 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 value		

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**