



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-12/2012-13, Dt: 21.07.2012

PRICE BID

Item no.: 2

**Name of work: Miscellaneous works at K – gate.**

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	<b>Part I: Fencing from Factory Compound wall between J and K gate</b>				
1	<b>Felling trees of the girth</b> (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable materials and disposal of unserviceable materials - beyond 1.20 M to 2.40 meters girth etc. complete as directed by Engineer-in-charge.	30.00	Each	1,658.85	49,765.50
2	<b>Earth work in excavation in all soils</b> 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 etc. complete as directed by Engineer-in-charge.	10.00	Cu.m	103.40	1,034.00
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 <b>1:2:4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	9.00	Cu.M	1,585.00	14,265.00
4	Fabrication of structural steel work including all materials a) going into the process of fabrication and forming an integral part 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 raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores etc. complete as directed by Engineer-in-charge.	2.50	M T	7,563.80	18,909.50

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
b)	Erection of Steel work out lined in above item, including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	2.50	M T	3,241.60	8,104.00
5	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 etc. complete as directed by Engineer-in-charge.	2.50	MT	596.50	1,491.25
<b>Total part I</b>				₹	<b>93,569.25</b>
<b>Part - II</b>					
<b>Providing sunglass film to window glasses, granite tiles etc.</b>					
1	Providing and fixing 25 micron thick reflective type sun control film of Garware make or equivalent approved quality on window glass panes at all heights including removing the damaged one, as directed by Engineer in charge.	30.00	Sq. m	335.80	10,074.00
2	Supply & fixing 12 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 etc. complete as directed by Engineer-in-charge.	30.00	Sq. m	810.00	24,300.00
3	Supply & fixing 40 mm dia Nominal Bore GI pipe medium Grade properties 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 as directed by Engineer-in-charge. Make: TATA/JINDAL/ZENITH	415.00	R M	219.60	91,134.00
4	Making connection of GI distribution branch with GI main of 25 to 40 mm nominal bore size by providing and fixing tee, including cutting and threading the pipe etc. complete as directed by Engineer-in-charge.	1.00	Each	166.05	166.05
5	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 25 mm (1") dia etc. complete as directed by Engineer-in-charge.	7.00	Each	482.00	3,374.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	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 etc. complete as directed by Engineer-in-charge.	30.00	Sq.m	19.10	573.00
<b>Total part II</b>				₹	<b>1,29,621.05</b>
<b>Part - III Cycle Shed at K-Gate</b>					
1	<b>Earth work in excavation in all soils</b> 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 etc. complete as directed by Engineer-in-charge.	6.00	Cu.m	103.40	620.40
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 leveled and neatly dressed for <b>Hard Rock</b> (Blasting prohibited) etc. complete as directed by Engineer-in-charge.	0.60	Cu.M	325.25	195.15
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 <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	0.60	Cu.M	1,560.50	936.30
4	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</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	5.00	Cu.M	1,641.30	8,206.50
5	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) etc. complete as directed by Engineer-in-charge.**	7.20	cu.m	1,687.00	12,146.40
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 etc. complete as directed by Engineer-in-charge.	0.40	M.T	4,003.00	1,601.20

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	<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 etc. complete as directed by Engineer-in-charge.	6.00	Cu.M	56.41	338.46
8	Flooring in 25mm thick using 1 cement and 3 parts of granite stone chips of 3 to 10mm gauge (no sand) Ellis pattern first sort including neat finishing , curing, cost of materials etc. complete as directed by Engineer-in-charge.**	48.00	Sq.m	130.40	6,259.20
9a	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part 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 raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores etc. complete as directed by Engineer-in-charge.	0.80	MT	7,563.80	6,051.04
b	Erection of Steel work out lined in item No.9a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	0.80	MT	3,241.60	2,593.28
c	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 as directed by Engineer-in-charge. The required paint only will be issued free of cost by B.H.E.L at their stores.	0.80	MT	596.50	477.20

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
10	Supply and Fixing of <b>colour coated aluminium zinc alloy coated metallic hirib profile sheet of nominal 1015-1020mm effective cover width and 28-30 mm</b> deep ribs with subtle square fluting in the five pan at nominal 202-205mm center-to-center. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feen material is manufactured out of nominal 0.45mm base metal thickness (BMT) or 0.5 mm TCT, Hi-Strength steel with minimum 550 MPa yield strength metallic hot dip coated with aluminium -Zinc alloy (55 % Aluminium ,45 % Zinc)as per AS 1397-Zincalume AZ150 (Min 150 Grams / Sq.Mt) Total on both sides) with colour bond steel quality paint coat as per AS/NZS 2728 type 3-4.The paint shall have a total coating thickness of nominal 35 µm, Comprising of nominal 20µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5µm primer coat on both surfaces of approved colour shade by concern authority. The steel manufactures test certificate for the certificate for the chemical and mechanical properties of steel must be submitted for approval by the engineer-in-charge.	96.00	Sq.m	672.40	64,550.40
	<b>Total part III</b>			₹	<b>1,03,975.53</b>
	<b>Total (part I+ part II+ part III)</b>			₹	3,27,165.83
	<b>Add increase in Vat 1% over the material cost (70% of Above value)</b>			₹	2,290.16
	<b>Total value of work</b>			₹	<b>3,29,455.99</b>
<b>Total : ₹ Three lakhs twenty nine thousand four hundred fifty five and ninety nine paise only</b>					

**Note:** \*\*Cement, structural steel/MS reinforcement steel, paint will be issue by BHEL on free of cost at their stores.

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	Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents
3	The rates are inclusive of all taxes and duties.

**Note :** The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor