

**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM :: HYDERABAD-502032

(TOWNSHIP ADMINISTRATION)

Tender Notice No.

PRICE BID - PART - B - Item No. 02

HY/TA/2014-15, Date: 15.11.2014

Item. No. 02

**PART-A:-Modification/Renovation works**

**Name of work: "Modification and Renovation works at Jyothi vidyalaya High School"**

Sl. No	Description of item	Qty	Unit	Rate	Amount
1	2	4	5	6	7= 4 x 6
<b>PART - A - CIVIL WORKS</b>					
1	Dismantling and disposal up to a distance of 2 kms. Lead , the following including the cost of labour, tools, transport etc. all complete all as directed by Engineer-in-charge.				
a	PCC	2.00	One Cum	226.90	453.80
b	Brick work	2.00	One Cum	310.75	621.50
c	RCC	4.00	One Cum	537.55	2,150.20
d	plastering in walls	400.00	One Sqm	8.20	3,280.00
e	Plastering in ceilings	120.00	One Sqm	8.20	984.00
f	sanitary fittings such as Wash Basins, Water closets, sinks etc.	20.00	Each	50.00	1,000.00
g	G.I pipe 15mm/20mm/25mm dia including specials.	20.00	One Rmt	10.00	200.00
2	Plain cement concrete 1:5:10 mix using 40 mm guage down graded machine crushed granite metal in foundation including consolidation, curing and cost of all materials etc complete.	2.00	One Cum	2,079.60	4,159.20
3	Brick work in cement mortar 1:6( 1cement :6 coarse sand) with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes.	20.00	cum	2,430.25	48,605.00
4	Plastering in cement mortar 1:4, 20 mm thick including curing, cost of all materials, etc complete all as directed by Engineer-in-charge.	500.00	SqM	110.45	55,225.00
5	Plastering in cement mortar 1:3, 6 mm thick including curing, cost of all materials, etc complete all as directed by Engineer-in-charge.	1000.00	SqM	62.15	62,150.00
6	Providing and laying ceramic glazed floor tiles 300x300mm ( thickness to be specified by the manufacture) of 1 st quality conforming IS 15622 of approved make in colours such as white Ivory grey fume red brown laid on 20mm thick cement mortar 1:4( 1 cement 4 coarse sand ) including pointing the joints with white cement and matching pigment etc. complete.	160.00	One Sqm	598.65	95,784.00
7	Removing the existing Ellis pattern Flooring / Plastering and providing and laying of antiskid Tiles of size: 0.30 x 0.20 M for walls and 0.30 x 0.30 m for toilet floors of approved shade and design of 1st quality conforming to IS:15622 of approved make over a base of CM 1:4, 20 mm thick including neat finishing and jointing with white cement & matching pigment etc. Complete all as directed by Engineer-in-charge.	500.00	One Sqm	606.85	303,425.00
8	Supplying and fixing 30mm thick ISI marked solid core flush door veneer facing shutters conforming to IS:2201 ( Part I) commercial type, all as directed by engineer-In-charge.	8.00	One Sqm	989.00	7,912.00
9	Providing and fixing ISI marked oxidised M.S. pressed butt hinges of size 100x58x1.90 mm with necessary screws etc all as directed by Engineer-in-charge.	24.00	Each	13.45	322.80
10	Providing and fixing ISI marked oxidised M.S. tower bolt black finish(Barrel type) of size 200x10 mm with necessary screws etc all as directed by Engineer-in-charge.	12.00	Each	28.60	343.20
11	Providing and fixing ISI marked oxidised M.S. Handls conforming to IS:4992 of size 100 mm with necessary screws etc all as directed by Engineer-in-charge.	12.00	Each	7.75	93.00
12	Providing and fixing ISI marked oxidised M.S. aldrops of size 300 mm with necessary screws etc all as directed by Engineer-in-charge.	4.00	Each	108.80	435.20

Sl. No	Description of item	Qty	Unit	Rate	Amount
1	2	4	5	6	7= 4 x 6
13	providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall profile size 48 x 40 mm (tolerance $\pm$ 1mm) with wall thickness 2.0 mm $\pm$ 0.2mm , corners of the door frame to be jointed with galvanised brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanised M.s tube of size 19 x 19 mm and 1 mm $\pm$ 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.	72.00	Rmt	141.00	10,152.00
14	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59 x 24 mm and wall thickness 2mm $\pm$ 0.2mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0mm and stainless steel screws. The styles of the shutters reinforced by inserting galvanised M.s tube of size 20 x 20 mm and 1mm $\pm$ 0.1mm wall thickness . The lock rail made up of ' H ' section , a UPVC hollow section of size 100 x 24 mm and 2mm $\pm$ 0.2 mm wall thickness fixed to the shutter styles by means of plastic / galvanised M.S 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620mm , having overall thickness of 20mm and 1mm $\pm$ 0.1mm wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised M.S Rod and fastened with nuts and washers , complete as per manufacturer's specification including all required fittings all as direction of Engineer-in-charge.	20.00	SqM	2,190.50	43,810.00
15	Supplying and fixing of seasoned medium Indian <b>teakwood reapers of size 50 x 25 mm</b> horizontally on the wall surface by providing wooden pegs and fixing with MS screws etc., complete.	90.00	Rmt	58.50	5,265.00
16	Supplying and fixing in position medium Indian teakwood cup board shutters having with frame of size 75 x 25 mm scantling and fixing 3 mm thick plywood sheets on both sides including cost of MS hinges, Nickle coated latches and oxidised aluminium fixtures and furniture of approved quality etc., complete including dismantling and disposal, upto 2 KM lead, of existing Shutters as directed by the Engineer-in-charge.	40.00	SqM	1,074.86	42,994.40
17	Supplying and fixing of white clear acrylic sheet of 3 mm thick of required sizes with glass putty required for fixing to the existing steel/wooden windows including removing the existing broken glass panes/plywood panes along with the bedding/glass putty, cost of all materials and labour etc., complete all as directed by Engineer In charge.	50.00	One Sqm	1,050.00	52,500.00
18	Supplying and fixing of medium Indian teak wood window shutters 30 mm thick fully panelled including fixing of M.S. fixtures, fittings and furniture of superior quality etc., complete as directed by the Engineer-in-charge.	18.00	SqM	1,769.00	31,842.00
19	Repairs to the existing doors, windows, ventilators and cup boards including frame, shutters, fittings, weldmesh, T.W beadings etc., all as directed by the Engineer-in-charge. (Only labour charges).	10.00	SqM	144.20	1,442.00
20	Supply and fixing of superior quality <b>mirror</b> of standard make with fibre glass reinforced plastic frame, plastic sheet back and necessary rubber channel of size 453 x 357 mm. The glass shall be of minimum 4 mm thick belgium processed and copper back etc complete.	8.00	Each	465.10	3,720.80
21	Dismantling the existing nahany trap, Supplying & Fixing 76.2 mm PVC Prince / Sudhakar make nahani trap of any type with nahany jali including required jointing materials etc as per site requirements etc complete all as directed by Engineer-in-charge.	10.00	Each	85.00	850.00
22	Providing & Fixing of white vitreous china Orissa pattern W.C pan of size 580x440 mm with integral type foot rest (Indian type WC pan) with 100 mm sand cast iron P or S trap, 10 litre low level white PVC flushing cistern with manually controlled device (handle lever ) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required etc. complete all as directed by Engineer-in-charge.	9.00	Each	2,304.65	20,741.85

Sl. No	Description of item	Qty	Unit	Rate	Amount
1	2	4	5	6	7= 4 x 6
23	Dismantling, Providing and fixing white vitreous china pedestal type water closet (european type WC pan) with seat and lid 10ltr low level white PVC flushing cistern with manually controlled decice (handle level) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the wall and floors .WC pan with ISI marked white solid plastic seat and lid.	4.00	Each	2,152.50	8,610.00
24	Fixing coloured porcelain wash hand basin with CI brackets painted with CP brass waste coupling of 160 grams weight CP brass chain with plug, CP brass stop cock die cast (300 grams weight) PVC connection, PVC waste pipe of 32 mm dia of required length, CP brass trap (350 grams weight) with necessary screws, wooden plugs etc, complete including cutting and making good the walls wherever required including cost of all materials all as directed by Engineer-in-charge.	8.00	Each	1,044.90	8,359.20
25	Providing and fixing 15mm nominal bore, 86mm long, weighing not less than 88 gms PTMT bib cock of approved quality and colour including cost of all materials all as directed-by-Engineer-in-charge.	33.00	Each	120.85	3,988.05
26	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 430x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unios and GI clamps complete including painting of fitting and brackets cutting and making good the walls and floors wherever required.One urinal basin with 5 ltr white PVC automatic flushing cistern.	40.00	Each	2,018.70	80,748.00
27	Supplying and fixing of GI pipes (Class-A) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 15 mm dia (1/2") dia.	40.00	Rmt	105.85	4,234.00
28	Supplying and fixing of GI pipes (Class-A) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 20 mm dia (3/4") dia.	30.00	Rmt	133.85	4,015.50
29	Supplying and fixing of GI pipes (Class-A) with all necessary fittings including excavation, making holes, fixing clamps wherever necessary and repairing the holes, refilling the trenches, cost of all materials etc complete as directed for 25 mm dia (1") dia.	36.00	Rmt	179.65	6,467.40
30	Providing and fixing in position collapsible steel Shutters with vertical channels 20 x 10x 2mm and braced with flat Iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia. Steel pullieys complete with bolIs nuts locking arrangement, stoppers, handles, including applying a primer coat of approved steel primer.	9.00	SqM	2,592.70	23,334.30
31	Providing and placing on terrace (at all levels) polyethyelene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank.	3.00	Each	5,250.00	15,750.00
	<b>PART - B : PAINTING WORK</b>				-
32	Finishing walls with acrylic smooth exterior paint of approved brand and shade on old work Two or more coats applied @ 1.67 litres per 10 sqm on existing cement paint surface etc., complete all as directed by Engineer-in-charge.	5600.00	SqM	36.30	203,280.00
33	Applying One coat of oil bound distemper of approved shade and brand to walls on the old surface cost of all materials etc., complete all as directed by Engineer-in-charge.	400.00	SqM	13.85	5,540.00
34	Applying Two coats of oil bound distemper of approved shade and brand to walls on the old surface cost of all materials etc., complete all as directed by Engineer-in-charge.	7100.00	SqM	23.55	167,205.00

Sl. No	Description of item	Qty	Unit	Rate	Amount
1	2	4	5	6	7= 4 x 6
35	Thorough scraping, sand papering and preparing the surface smooth including necessary repairs to scratches etc., complete all as directed by Engineer-in-charge.	13080.00	SqM	3.20	41,856.00
36	Applying one coat of synthetic enamel paint of approved brand and shade to old plastered surfaces, including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	1440.00	SqM	22.85	32,904.00
37	Applying two coat of synthetic enamel paint of approved brand and shade to old plastered surfaces, including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	1000.00	SqM	35.35	35,350.00
38	Applying one coat of synthetic enamel paint of approved shade and brand to old wood work including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	875.00	SqM	22.85	19,993.75
39	Painting to black boards with one coat of black board paint of approved brand including cost of all materials etc., complete all as directed by Engineer-in-charge.	190.00	SqM	22.85	4,341.50
40	Applying one coat of synthetic enamel paint of approved shade and brand to old iron work including scraping, cost of all materials etc., complete all as directed by Engineer-in-charge.	100.00	SqM	22.85	2,285.00
	<b>PART - C : DRAINAGE WORK</b>				-
41	Earth work in excavation by mechanical means (Hydraulic excavation / manual means for laying of sewage pipe lines upto any depth including disposal of excavated earth, lead upto 50 meters and an lift in all kinds of soils for laying of sewer lines in township etc complete all as directed by Engineer-in-charge.	400.00	Cum	101.85	40,740.00
42	Excavation in hard rock by mechanical means (Hydraulic excavator) / manual means including stacking of rock with in a lead of 50 m and all lifts (blasting prohibited). etc. complete all as directed by Engineer-in-charge.	2.00	Cum	325.25	650.50
43	Providing laying and jointing glazed stone ware pipes grade 'A' true to the alignments and gradients with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) with hump yarn etc. including testing of joints including connecting to existing line etc complete all as directed by Engineer-in-charge.				-
a	100 mm diameter	90.00	Rmt	105.90	9,531.00
b	150 mm diameter	280.00	Rmt	151.65	42,462.00
44	Constructing of brick masonry inspection chamber of inside dimensions 0.914 x 0.45 M with brick work in CM 1:6 , Masonry inspection chamber up to 914.4 mm (3') and fitted with light weight 914.4 mmx457.2 mm (3'x1'6") C.I. frame and cover of 40 kg. etc., complete as directed by Engineer-in-charge.	20.00	Nos	3,226.00	64,520.00
45	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of underviceable material. Useful material to be conveyed & handed over to department with in 2 km lead all as directed by Engineer-in-charge.				
a	Beyond 60 cm girth up to and including 120 cm girth	5.00	Each	359.80	1,799.00
46	Refilling the trenches with excavated soils including watering consolidation etc complete all as directed by Engineer-in-charge.	400.00	CuM	45.70	18,280.00
47	Providing and fixing square mouth S.W gully trap grade 'A' complete with C.I grating brick masonry chamber with water tight SFRC Light Duty cover with frame of 300 x 300 mm size (inside) by providing 150 x 100 mm size trap with F.P.S brick class designation etc complete and dismantling the existing gully traps all as directed by Engineer-in-charge.	13.00	Each	961.95	12,505.35
48	Dismantling the existing nahany trap, Supplying & Fixing 76.2 mm PVC Prince / Sudhakar make nahani trap of any type with nahany jali including required jointing materials etc as per site requirements all as directed by Engineer-in-charge.	25.00	Each	85.00	2,125.00

Sl. No	Description of item	Qty	Unit	Rate	Amount
1	2	4	5	6	7= 4 x 6
49	Dismantling of the existing AC Pipe (old pipes are to be handed over to department as per instructions of the Engineer-in-charge) and supplying & fixing of 75 mm dia Prince/ Sudhakar make or equivalent quality as approved by Engineer-in-charge of PVC / SWR pipes & fittings (as per ISI standards) 4 kgs/ cm <sup>2</sup> . etc.complete all as directed by Engineer-in-charge. [ @ 1.5m/Nahani trap for connections to Gully trap]	35.00	Rmt	84.00	2,940.00
50	Dismantling of the existing specials and Supplying & Fixing Prince / Sudhakar make or equivalent approved quality (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards) etc complete all as directed by Engineer-in-charge.				-
a	75 mm dia plain bend.	10.00	Each	66.00	660.00
b	75 mm dia Single "Y"	10.00	Each	141.00	1,410.00
51	Dismantling of the existing AC Pipes (the pipes are to be returned to department as per instructions of the Engineer-in-charge) and Supply & Fixing Prince / Sudhakar make or equivalent approved quality PVC / SWR pipes (as per ISI standards) 4 kg / cm <sup>2</sup> 110 mm dia etc complete, all as directed by Engineer-in-charge. [ @6.2m per pipe]	62.00	Rmt	143.00	8,866.00
52	Dismantling the existing A.C specials & Supply & Fixing Prince / Sudhakar make or equivalent quality (U.V. resistant UPVC) SWR pipe fittings (as per ISI standards all as directed by Engineer-in-charge.				-
a	110 mm dia plain bend.	10	Each	99.00	990.00
b	110 mm dia plug bend.	10	Each	119.00	1,190.00
c	110 mm dia Single 'Y' with door.	5	Each	170.00	850.00
d	110 mm dia off-set.	10	Each	93.00	930.00
e	110 mm dia pipe clip. @ 6 nos per pipe	60	Each	18.00	1,080.00
f	110 mm dia single tee with door.	5	Each	134.00	670.00
g	110 mm dia coupler.	5	Each	58.00	290.00
	Total				<b>1,681,212.50</b>
Tender %	In words				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	<b>Service tax</b> 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 <b>04 months</b> . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.

\* The above estimates are excluding service tax.

\*Estimates prepared comply with guidelines issued by corporate vigilance dept. vide ref No:-AA/VAS/1349-E dtd.11.11.2009.