



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

**SCHEDULE- A**

Tender Notice No:

HY/FCD/OT-07/2021-22 Dt: 26.06.2021

**PRICE BID**

**Name of work:** Civil works for Slurry Pump Test Facility.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
<b>A</b>	<b>Part A: foundation for Tank</b>				
1	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. All as directed by Engineer-in-charge.	22.50	Cu.M	2,342.01	52,695.27
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. All as directed by Engineer-in-charge.	25.00	Cu.M	221.21	5,530.37
3	<b>Earth work</b> 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). All as directed by Engineer-in-charge.	2.50	Cu.M	891.02	2,227.55
4	Providing and laying in position <b>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). <b>Only cement will be issued by BHEL on free of cost at their store.</b>	1.50	Cu.M	4,032.46	6,048.69
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 1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). <b>Only cement will be issued by BHEL on free of cost at their store.</b>	20.00	cu.m	4,362.46	87,249.20
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. <b>(Only reinforcement steel will be issued by BHEL on FREE of cost at their stores)</b>	1.60	M.T	16,395.00	26,232.00
7	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level. All as directed by Engineer-in- charge.	95.00	Sq.m	249.77	23,727.83
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.	3.50	Cu.M	192.60	674.11
9	<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.	18.00	Cu.M	149.43	2,689.74
				<b>Total A</b>	<b>₹ 2,07,074.76</b>

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
<b>B Part B: Vacuum pump 2 units</b>					
1	Earth work in excavation 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 bottams, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.	40.00	Cu.m	221.21	8,848.59
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 <b>up to plinth level</b> with <b>1:4:8 (1 cement : 4 coarse sand :84 graded stone aggregate of 20 mm nominal size )</b> . **	3.00	Cu.M	4,032.46	12,097.38
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 (machine foundations) <b>up to plinth level</b> with <b>1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size )</b> .**	20.00	Cu.M	4,362.46	87,249.20
4	<b>Centering</b> and shuttering including strutting, propping etc.; and removal of form for walls(any thickness) including attached pillars, buttresses, plinth and string courses etc.,.	60.00	Sq.M	249.77	14,986.00
5	<b>Reinforcement</b> for R.C.C. work including straightening , cutting, bending, placing in position and binding all complete by cold twisted bars (BHEL will issue Tor Steel at their stores on free of cost).	1.60	M.T	16,395.00	26,232.00
6	Grouting of bolt pockets with grout mix of specified proportion by the manufacturer, including cost of labour and incidentals etc. (The grout mix will be supplied free of cost by BHEL at BHEL stores)	0.05	Cu.M	1,461.00	68.48
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.	23.00	Cu.M	149.43	3,436.89
8	<b>Filling</b> available excavated earth (excluding rock) intrenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50 m lift upto 1.5 m .	17.00	Cu.M	192.60	3,274.24
				<b>Total Part B</b>	<b>₹ 1,56,192.77</b>
<b>C Part C: cable trench for cables(1m x 1m)</b>					
1	<b>Dismantling reinforced cement concrete / plain cement concrete</b> and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	40.00	Cu.m	2,342.01	93,680.49
2	Earth work in excavation 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 bottams, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.	37.50	Cu.m	221.21	8,295.55
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 <b>up to plinth level</b> with <b>1:4:8 (1 cement : 4 coarse sand :84 graded stone aggregate of 20 mm nominal size )</b> . **	3.00	Cu.M	4,032.46	12,097.38
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 : <b>up to plinth level</b> 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	10.00	Cu.M	4,463.77	44,637.70
5	<b>Centering</b> and shuttering including strutting, propping etc.; and removal of form for walls(any thickness) including attached pillars, buttresses, plinth and string courses etc.,.	80.00	Sq.M	249.77	19,981.33

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	<b>Reinforcement</b> for R.C.C. work including straightening , cutting, bending, placing in position and binding all complete by cold twisted bars (BHEL will issue Tor Steel at their stores on free of cost).	0.24	M.T	16,395.00	3,925.50
7	<b>Filling</b> available excavated earth (excluding rock) intrenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50 m lift upto 1.5 m .	9.90	Cu.M	192.60	1,906.76
8	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	27.60	Cu.M	149.43	4,124.27
9	<b>Fabrication of structural steel work</b> 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 primer as per IS specifications and all charges for handling, leading and loading at the fabrication yard. (The raw structural steel sections, electrodes, gasses only will be issued by BHEL on FREE of cost at their stores).	1.00	MT	21,460.00	21,460.00
10	<b>Erection of Steel work</b> out lined in item No.1 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.(upto 15.00m)	1.00	MT	9,197.00	9,197.00
11	<b>Painting with synthetic enamel paint</b> of approved brand and manufacture to give an even shade:Two or more coats on new work.(Only synthetic enamel paint will be supplied by BHEL)	1.00	MT	3,390.82	3,390.82
				<b>Total Part C</b>	<b>₹ 2,22,696.79</b>
<b>D</b>	<b>Part D: foundation for clamping bars for pump (3x10)</b>				
1	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. All as directed by Engineer-in-charge.	9.19	Cu.M	2,342.01	21,517.24
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. All as directed by Engineer-in-charge.	40.00	Cu.M	221.21	8,848.59
3	<b>Earth work</b> 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). All as directed by Engineer-in-charge.	1.00	Cu.M	891.02	891.02
4	Providing and laying in position <b>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). <b>Only cement will be issued by BHEL on free of cost at their store.</b>	3.00	Cu.M	4,032.46	12,097.38

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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 1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). <b>Only cement will be issued by BHEL on free of cost at their store.</b>	30.00	cu.m	4,362.46	1,30,873.80
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. <b>(Only reinforcement steel will be issued by BHEL on FREE of cost at their stores)</b>	2.30	M.T	16,395.00	37,708.50
7	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level. All as directed by Engineer-in- charge.	135.00	Sq.m	249.77	33,718.49
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.	9.00	Cu.M	192.60	1,733.42
9	<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.	29.00	Cu.M	149.43	4,333.47
10	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.	11.55	Sq.m	533.50	6,161.93
11	Grouting with cement mortar 1:1 including cost of all materials, labour, curing, for all leads and lifts etc.; complete. For pockets <b>.Only cement will be issued by BHEL on free of cost at their store.</b>	1.50	Cu.M	1,461.00	2,191.50
				<b>Total D</b>	<b>₹ 2,60,075.33</b>
<b>E-I</b>	<b>Part E: Local control room</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. All as directed by Engineer-in-charge.	1.00	Cu.M	221.21	221.21
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 <b>up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ). **</b>	0.14	Cu.M	4,022.99	579.31
3	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 1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). <b>Only cement will be issued by BHEL on free of cost at their store.</b>	1.00	cu.m	4,362.46	4,362.46
4	<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. <b>(Only reinforcement steel will be issued by BHEL on FREE of cost at their stores)</b>	0.10	M.T	16,395.00	1,639.50
5	Brick work with Ground moulded clay FPS brick in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand).	5.00	Cu.M	6,761.92	33,809.58

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	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.	41.95	Sq.m	263.00	11,033.38
7	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work.(Only synthetic enamel paint will be supplied by BHEL)	20.00	Sq.m	81.12	1,622.40
8	Providing and fixing in true horizontal level 600 mm x 600 mm <b>false ceiling</b> system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with microperforations, back of the tile duly sanded with a coat of protective paint over the formed grid and complete in all respect ,Boards where light fixtures to be fixed shall be handed over to Department. M/s- Armstrong etc complete all as directed by Engineer-in-charge.	25.00	One Sq. m	1,039.67	25,991.75
9	Supplying and fixing aluminum door 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 all as directed by Engineer in charge etc. complete.	3.15	One Sq.M	2,749.38	8,660.55
10	Supply and fixing of top fixed, side hung of <b>NCL Seccolor windows &amp; Ventilators of make shakthi/Ajantha/Finesta</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 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. Mullion 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/VAT inclusive .Service tax extra as applicable.	7.20	Sq.m	2,760.18	19,873.30

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	Supplying and fixing <b>aluminumm partitions</b> with new anodised aluminum box section of size 101.60x 44.45x 2.00mm for verticals, and with 63.50x 38.10x 2.00mm for horizontals spacing suitable to the site requirements and as approved by site in charge. Wherever doors are coming wooden runners are to be provided in the box section. The rate shall include grouting of frame to the floor properly fixed at ends to walls, cost of aluminum sections, labour etc., complete all as directed by Engineer-in-charge. (The door opening shall be deducted for payment)	46.00	One Sq.M	1,240.15	57,046.90
12	Supplying and fixing aluminumm door 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 all as directed by Engineer in charge etc. complete.	3.15	One Sq.M	2,749.38	8,660.55
13	Providing and fixing <b>glazing in aluminium door, window, ventilator shutters and partitions etc.</b> with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . 5.5mm Thick Make: Modi float/Saint gobain	10.00	sqm	828.41	8,284.10
14	--Do-- with 12 mm thick Nova teak / Kit Ply – plain or semi perforated particle board	40.00	sqm	578.54	23,141.60
15	<b>Fabrication of structural steel work</b> 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 primer as per IS specifications and all charges for handling, leading and loading at the fabrication yard. (The raw structural steel sections, electrodes, gasses only will be issued by BHEL on FREE of cost at their stores).	2.30	MT	21,460.00	49,358.00
16	<b>Erection of Steel work</b> out lined in item No.1 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. ( <b>upto 15.00m</b> )	2.30	MT	9,197.00	21,153.10
17	<b>Painting with synthetic enamel paint</b> of approved brand and manufacture to give an even shade:Two or more coats on new work.(Only synthetic enamel paint will be supplied by BHEL)	2.30	MT	3,390.82	7,798.89

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
18	<b>Vitrified flooring</b> : Supply and laying of vitrified tiles/ nano technology of brighter shades and required design of premium quality (1st quality), in required texture and colour for floors/skirting/cladding using vitrified tiles of size 600 X 600 mm( $\pm$ 5 mm), inclusive of cost of cutting , champering of tiles to required size, laid on 20mm thick or more as per site requirement to get proper slope <b>with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness</b> . The rate quoted shall include cost of all materials, labour, 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 floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile. This includes making pockets for electrical, communication, network cables, junction boxes etc. complete in all respects.	21.16	Sqm	1,308.13	27,680.03
19	Fixing of Aluminium zinc alloy coated metallic roofing sheet of 0.5 mm thk. 1 mtr width and length upto 12 mts with factory cut and fixing to the roof shall be crest fixed to roof purlins with number 12-14 x 55 mm long polymer coated galvanised hex head self drilling screws with integral washers and EPDM seals (4 fastners for support) for sheet etc., complete all as directed by engineer-in-charge. (Excluding cost of galvalume sheets which will be issued free of cost by BHEL at their stores) - For roofing, side cladding and louvers with necessary fixtures.	30.00	Sq.M	70.34	2,110.20
			<b>Total part E1</b>		<b>₹ 3,13,026.80</b>
<b>E-II</b>	<b>Electrical works:</b>				
1	Supply, Assembly, Erection, Testing & Commissioning of Recess Mounted LED Luminaire suitable for 600x600 Armstrong ceiling mounting system. The job includes supply of 1.5sq.mm copper wire for connection. Make: <b>Havells, Model: LHEWBPP7PW1W042 (or) Phillips, Model: RC365B LED33-5000 PSU OD WH</b>	5.00	Nos	2,555.74	12,778.70
2	Supply and fixing of 10 Amps 250 V. SP switches for control of light fitting with Roma Type code : 21011 of Anchor or North West make . Fixed on a suitable modular type concealed box which is also to be supplied along with suitable top cover. Testing & commissioning.	8.00	Nos	198.03	1,584.24
3	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 per IS for wiring points ) with 14 G/1.5sq.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.	8.00	Pts	826.58	6,612.64
4	Supply and installation of concealed / surface PVC/MS Pipe wiring with 2.5 sq. mm PVC insulated copper wire multistrand of make Finolex / Rediant / Finecab / Havells / L&T. The wiring point for 20/16 A. power socket including 14 G./2.5sq.mm green colour copper wire for earth continuity. Independent circuit for each socket from power MCB distribution board ( As per IS for wiring point ) Testing and commissioning. The wiring should not be mixed with lighting pipe wiring and it should be run separately in the room / shed at a height of 2 feet from ground level or as per the site engineers instruction.	4.00	Pts	1,175.79	4,703.16
5	Supply and fixing of 3pin, 250 V. 10 Amps power socket cum switch with indication Roma type code 21113 and 21033 of Anchor make or North West. Fixed on suitable modular type concealed box top cover. Testing & commissioning.	4.00	Nos	362.93	1,451.72

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	Supply and Fixing of MCB DB with SPN 415V, Single door & Module DB (for lighting & Power circuits) consisting of 16A MCB 1 No for I/C & 10A MCB's - 4nos for O/G's. Make:Siemens Ref No: 8GB32101RC08	4.00	Nos	3,973.95	15,895.79
7	Supply and fixing of 25A, 250V box type, surface mounting double pole MCB and heavy duty plug & socket of SIEMENS make Ref. No. 8GB13622RC fixing on suitable modular type concealed box with suitable top cover for Air Conditioner.	2.00	Nos	1,407.75	2,815.49
8	Shifting and laying of LT power PVC armoured aluminium cable including Dressing				
9	4C x 16 sq.mm	20.00	Mts	13.04	260.82
10	Shifting & Earthing of MCBDB from nearest Earth riser with 50x6mm/ 25x3mm GI flat. Work includes supply and apply of Aluminium paint at each welding points.	50.00	Mts	20.35	1,017.50
				<b>Total E-II</b>	<b>₹ 47,120.05</b>
	<b>Part F: Shifting of existing welding area and providing new area (20m x12 m)</b>				
1	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 2 Km lead per direction of Engineer-in-charge. within 2 Km lead.(upto 5m)	10.00	MT	2,530.66	25,306.59
2	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. All as directed by Engineer-in-charge.	1.00	Cu.M	2,342.01	2,342.01
3	<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. All as directed by Engineer-in-charge.	1.00	Cu.M	221.21	221.21
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering ,including consolidation by vibrations for all works <b>up to plinth level</b> with <b>1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size ). **</b>	1.00	Cu.M	4,022.99	4,022.99
5	<b>Fabrication of structural steel work</b> 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 primer as per IS specifications and all charges for handling, leading and loading at the fabrication yard. (The raw structural steel sections, electrodes, gasses only will be issued by BHEL from structural steel scrap stores on FREE of cost ).	7.00	MT	21,460.00	1,50,220.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	<b>Erection of Steel work</b> out lined in item No.1 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. (upto 15.00m)	7.00	MT	9,197.00	64,379.00
7	<b>Painting with synthetic enamel paint</b> of approved brand and manufacture to give an even shade: Two or more coats on new work. (Only synthetic enamel paint will be supplied by BHEL)	7.00	MT	3,390.82	23,735.74
				<b>Total F</b>	<b>₹ 2,70,227.55</b>
<b>Total of Part A to F</b>					<b>₹ 14,76,414.05</b>

**Note:**

1	<b>Risk Purchase :</b> In case the contractor fails to execute the work within the scheduled time or due to any other reasons, BHEL reserves the right to get the same completed through some other party at the risk & cost of the contractor and any additional expenditure incurred due to the same shall be charged to the contractor.
2	The rates are excluding GST.
3	The maintenance period is <b>12 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.
4	<p><b>Penalty terms:</b></p> <p>a) In the event of delay in supply of goods and or services beyond contractual delivery date, penalty of 0.5% per week or part thereof shall be levied on the gross value of work done subject to a maximum of 10% of the gross value of the total work executed. Penalty amount so determined along with GST if applicable thereon shall be recovered.</p> <p>b) If the contractor fails to deposit the required security deposit or commence the work within the period as per LOI/Contract. The EMD will be forfeited.</p> <p>c) If the agency fails to commence the work as requested by the department penalty of 0.5% on the gross value of work for weeks delay will be applicable. Penalty amount so determined along with GST if applicable thereon shall be recovered.</p>
5	<b>Taxes:</b> Bidders shall quote their Basic price exclusive of taxes. The applicable taxes on supply of material or services, as the case may be viz. GST shall be quoted separately, clearly showing the Service Code/Tariff Head, Rate of Tax and Amount of Tax in the Bid. The reimbursement of taxes to the contractor is contingent upon fulfilment by the contractor of all statutory provisions as stipulated in the relevant taxation statute enabling BHEL to avail the eligible input tax credits. TDS at the rates prescribed under Income Tax Act shall be deducted from the payments due to Contractor and BHEL shall issue the necessary TDS Certificates for such deductions made.
6	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than GST as applicable from time to time.
7	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.
8	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.
9	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., as per BHEL notification and as per NIT. For USW= ₹ 550.38, SSW= ₹ 587.73, SW = ₹ 623.54 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.
10	The agency has to bring police clearance certificate for the work force.
11	All the terms and conditions of the contact with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).
12	Payment shall be made stage wise on approval from engineer in charge
13	Vendor shall raise GST invoice on BHEL Hyd GSTIN.
14	If BHEL is unable to avail the input tax credit, the same amount shall be recovered from the vendor bills.
15	Use of stone dust is not permitted in any civil works.
	<b>GST CLAUSES</b>
	Following points to be complied with :
16	In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.				
18	The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, Tax Invoice (Original for Recipient) along with his bills.				
19	Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter /Intra state movement Supply of goods and services or both.				
20	Taxes and duties prevalent on the contractual delivery date or the actual delivery date (in case of delay) whichever is lower shall be applicable paid. Composition Scheme to be addressed.				
21	Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.				
22	Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.				
23	In case of any short supply of goods or service Vendor has to raise a credit note for short supplied quantity as per GST provisions.				
24	Any GST liability arising on BHEL under reverse charge before actual receipt of goods and or services and/or invoice thereof would be subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.				
25	Supplier shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.				
26	A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.				

Tender %	In figure	In words
Excess		
Less		
At par with Estimated value		

Note :	<b>The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimated value in figures and words.Bidders are requested to fill only one row.</b>
--------	---