

BHARAT HEAVY ELECTRICALS LIMITED					
RAMACHANDRAPURAM :: HYDERABAD-502032					
(TOWNSHIP ADMINISTRATION)					
					Tender Notice No.
PRICE BID - PART - B					HY/TA/OT-14/2014-15
					Date: 06.02.2015, Item. No. 04
Name of Work: "Construction and Renovation work of (i) Drilling of bore Well & Connections in Pati village-Civil+Electrical (ii) Construction of Room for RO Plant – Civil + Electrical works (iii) Development (Construction and Renovation) works for Pati Village under CSR works corporate MOU."					
PART-A (Civil works - Bore well)					
SL. No	Description of item	Qty	Unit	Rate	Amount
1	Drilling of Bore wells of 163 mm dia (6.5") at identified places in all types of soils including all incidentals charges, transportation etc. complete as directed by Engineer-in-charge.				
a)	Upto 60 mtrs. Depth (up to 200 feet)	60.00	Metre	165.97	9958.20
b)	from 60 mtrs. To 90 mtrs. Depth (200 to 300 feet)	30.00	Metre	203.69	6110.70
c)	from 90 mtrs. to 120 mtrs. Depth (300 to 400 feet)	30.00	Metre	241.41	7242.30
d)	from 120 mtrs. to 150 mtrs. Depth (400 to 500 feet)	25.00	Metre	316.85	7921.25
2	Supplying and fixing in position of PVC Sudhakar make 6 Kgs / Sq. Cm casing pipe of 200 mm (8"), heavy duty as per IS 4995, ISI marked upto required depth including cost of all materials and other incidentals etc. complete.	25.00	Metre	754.40	18860.00
3	Supply & fixing of CI flanged and spigot tall pieces of 600 mm long and 250 mm dia and providing with 1 mm thick MS sheet dummy over tall pieces and fixing with cement concrete at new drilled bore wells etc. complete as directed by Engineer-in-charge.	1.00	Each	1,800.00	1800.00
4	Supplying , laying and jointing 80mm nominal bore GI Pipe medium graded properties and weight as per IS 1239, ISI marked with GI fittings , including cost of pipe and its fitting labour charges, testing, etc.	170.00	Metre	881.35	149829.50
(Electrical works - Bore wells)					
5	Supply & laying of one number PVC insulated PVC sheathed steel wire/strip armoured multi stranded Aluminium conductor cable, 4-core 16 sq.mm. 1100V grade conforming to IS, direct in ground including excavation, sand cushioning, protective covering (with shahabad stones) and refilling thr trench etc. as required; complete all as directed by Engineer-in-charge.	250	Metre	235.00	58750.00
6	Supply and making cable end termination with brass compression gland and aluminium lugs for 4 core - 16 sq. mm. PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 kV grade; complete all as directed by Engineer-in-charge.	4	Each	188.00	752.00
7	Supply, fabrication and erection of 1.6mm MS sheet enclosure for power control cubicle panel / boxes with hinges & mechanical locking arrangements etc., including cutting, bending, drilling, welding & reveting etc., complete and painting with 2 coats of red-oxide paint and finished with general purpose oil paint of suitable shade including cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge.	80	Kg.	184.00	14720.00
8	Supply & fixing of 40A, four pole, 415V isolator, complete with connections, testing & commissioning etc. as required.	1	Each	554.00	554.00

9	Supply and Fixing of Switch Box/ fuse Box etc. complete as directed by Engineer-in-charge.	1	Each	2,350.00	2350.00
10	Supply and Fixing of starter (Automatic Star Delta) with OLR rating 13 A to 24 A, 3 Phase 415V etc. The starter panel should have voltmeter & ammeter of suitable range; all complete as directed by Engineer-in-charge.	1	Each	9,900.00	9900.00
11	Supplying and Erection of 3-phase, 10 HP Submersible Pumpset with minimum 12 stages, ISI marked, 5-star rated and capable of total working head of min. 360 ft. Basic material of construction: Impeller : Bronze / SS Pump shaft : Stainless Steel Motor shaft : stainless steel Motor casing : stainless steel make : Kirloskar/ Crompton Greaves/ CRI Pumps/ KSB Pumps/ Tormac Pumps/ Falcon. all complete as directed by Engineer-in-charge.	1	Each	40,000.00	40000.00
12	Supply & connecting of 1.1 kV grade 3 core, 4.0 sq.mm. PVC insulated PVC outer sheathed flat flexible copper conductor cable conforming to IS 694/1990 (make : AVOCAB / FINOLEX / as supplied by pump manufacturer) for submersible pump motors including all incidental charges; complete all as directed by Engineer-in-charge.	300	Metre	142.00	42600.00
13	Supply & installation of earthing arrangement comprising of 40 mm dia, 3 mm thick GI pipe buried upto a minimum depth of 4.5 mtrs including excavation of pit and filling the pit with homogenous layers of coke/charcoal, salt & sand etc. as required conforming to IS Standards (IS:3043). The earth pit to be provided with brick masonry chamber with hinged cover and watering arrangement; complete in all respects, as directed by Engineer-in-charge.	1	Each	3,385.00	3385.00
14	Providing and fixing 4.00 mm dia annealed copper wire on surface or in recess for connection of earth pits as required; complete all as directed by Engineer-in-charge.	30	Metre	87.50	2625.00
				subtotal	377357.95
PART-B (Civil works - RO Plant)					
1	Clearing jungle including uprooting of rank vegetation, brush wood trees and sapling of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of this area cleared.	100.00	One Sqm	2.64	264.00
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed for all kinds of soil.	130.00	One Cum	101.85	13240.50
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level, 1:5:10 (1cement 5: fine sand 10 grade stone aggregate 40mm nominal size)	5.50	One Cum	2079.60	11437.80
4	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with cement mortar 1:6 (1cement 6 coarse sand)	11.00	One Cum	1913.10	21044.10
5	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1cement 2 coarse sand 4 grade stone aggregate 12.5mm nominal size)	0.30	One Sqm	144.15	43.25

6	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6(1cement :6 coarse sand)	10.00	One Cum	2601.90	26019.00
7	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position:Second class teak wood	0.18	One Cum	52090.00	9376.20
8	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 beeding/glass putty, cost of all materials and labour etc., complete all as directed by Engineer In charge.	7.00	One Sqm	1050.00	7350.00
9	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete - Fixed to opening / wooden frames with rawl plugs screws etc.	100.00	Kg	64.40	6440.00
10	Supplying and fixing rolling shutters of approved make made of required size MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets side guides and arrangement for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade No. 2 and MS top cover of required thickness for rolling shutters 80x1.20mm MS laths with 1.20mm thick top cover	7.00	One Sqm	965.35	6757.45
11	Reinforced cement concrete work in beams,suspended floors,roofs having slope upto 15 degree landings,balconies,shelves, chajjas, lintels, bands,plain window sills,staircases upto floor five level excluding cost of centering,shuttering,finishing and reinforcement with 1:2:4 (1cement : 2 coarse sand : 4 graded granite stone aggregate 20 mm nominal size) including curing , cost of all materials as per direction of Engineer-in-charge.	4.00	One Cum	3673.85	14695.40
12	Reinforcement for RCC work including straightening, cutting bending placing in position and binding all complete. Mild steel and medium tensile steel bars	700.00	Kg	41.50	29050.00
13	Centering and shuttering including strutting,propping etc and removal of formwork for Suspended floors roofs, landing balconies and access platform	50.00	One Sqm	187.35	9367.50
14	20mm cement plaster of mix 1:6(1 cement 6 fine sand)	144.00	One Sqm	95.10	13694.40
15	6 mm cement plaster of mix: 1:3(1 cement : 3 fine sand)	40.00	One Sqm	62.15	2486.00
16	Ellis pattern flooring 20mm thick cement concrete using 1 cement and 3 granite metal stone of chipping of 3 to 10 mm guage including fine finishing, neat thread lining, curing, cost of all materials etc complete.	30.00	One Sqm	140.00	4200.00
17	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 priming coat with cement primer.	80.00	One Sqm	14.90	1192.00

18	Finishing walls with Acrylic smooth exterior paint of required shade old work (two or more coats applied @ 1.67ltr/10sqm) on existing cement paint surface)	70.00	One Sqm	36.30	2541.00
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	40.00	One Sqm	51.30	2052.00
20	filling available excavated earth (excluding rock) in trenches, plinth sides of foundating each deposited layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, lead upto 50m and lift up to 1.5,.	4.50	One Cum	45.70	205.65
21	Coveyance of excavated earth upto a lead of 2 km as directed by engineer- in - charge	11.00	One Cum	56.41	620.51
22	Providing and fixing on wall face unplasticised rigid pvc rain water pipes conforming to IS 13592 type a including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion (i) single socketed pipes 110mm diameter	7.00	Metre	163.40	1143.80
23	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised rigid PVC rain water pipes conforming to IS 13592 type A including jointing with seal ring conforming to IS 5382 leving 10mm gap for thermal expansion Shoe (plain) 110mm shoe	2.00	No	263.10	526.20
(Electrical works - RO Plant)					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required; complete all as directed by Engr-in-charge.	6	Each	416.00	2496.00
2	Supply and fixing 3-pin, 5 Amps. ceiling rose / PVC batten / angle holder (ISI marked) including connection etc. as required; complete all as directed by Engr-in-charge.	6	Each	34.00	204.00
3	Supply and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 6A/16A amps socket outlet and 16 Amps piano type switch, connection, etc. as required; complete all as directed by Engineer-in-charge. (<i>wiring separate with 2.5 sq.mm run of mains</i>)	2	Each	255.00	510.00
4	Supply & wiring for circuit / submain wiring alongwith earth wire with 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire, all of FR PVC insulated multistranded copper conductor, single core cable in surface/ recessed medium class PVC conduit as required; complete all as directed by Engineer-in-charge.	150	Metre	131.00	19650.00
5	Supply, fabrication and mounting of 16 SWG (1.6 mm) MS sheet enclosure for power control cubicle panel / boxes with hinges & mechanical locking arrangements etc., including cutting, bending, drilling, welding & reveting etc., complete and painting with powder coating including cost and conveyance of all materials and labour charges; complete all as directed by Engineer-in-charge.	2	Kg.	184.00	368.00

6	Supplying and fixing 5-32A 240 volts, "C" curve, double pole miniature circuit breaker (MCB), in accordance with IS 8828:1996 in the existing box complete with connections, testing and commissioning etc. as required; complete as directed by Engr.-in-charge.	1	Each	379.00	379.00
7	Supply, Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting, complete with all accessories and lamp etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required; complete all as directed by Engineer-in-charge. (Makes : as mentioned below this schedule)	6	Each	869.50	5217.00
				subtotal	212570.76

PART-C (Civil works - Development work)

1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed for all kinds of soil .	130.00	One Cum	101.85	13240.50
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work upto plinth level ,1:5:10 (1cement 5: fine sand 10 grade stone aggregate 40mm nominal size)	30.00	One Cum	2079.60	62388.00
3	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with cement mortar 1:6(1cement 6 coarses sand)	105.00	One Cum	1913.10	200875.50
4	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:4 (1cement :4 coarse sand)	240.00	One Cum	2601.90	624456.00
5	Structural steel work in single section fixed with or without connecting plate including cutting hoisting fixing in position and applying a priming coat of approved steel primer all complete	1400.00	Kg	42.15	59010.00
6	Providing and fixing GI chain link fabric fencing of required width in mesh size 50x50mm including strengthening with 2mm dia wire or nuts bolts and washers as required complete as per the direction of engineer in charge made of GI wire of dia 4mm	195.00	One Sqm	373.45	72822.75
7	Painting with aluminium paint of approved brand and manufacture to give an even shade Two or more coats on new work	120.00	One Sqm	28.60	3432.00
8	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4(1cement 2 coarse sand 4grade stone aggregate 12.5mm nominal size)	15.00	One Sqm	144.15	2162.25
9	Brick work FPS brick of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6(1cement :6 coarse sand)	40.00	One Cum	2601.90	104076.00
10	20mm cement plaster of mix 1:6(1 cement 6 fine sand)	200.00	One Sqm	95.10	19020.00
11	Finishing walls with Acrylic smooth exterior paint of required shade old work (two or more coats applied @ 1.67ltr/10sqm) on existing cement paint surface)	475.00	One Sqm	36.30	17242.50

12	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	50.00	One Cum	144.05	7202.50
13	Trenching in ordinary soil up to a ceptth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	5.00	One Cum	16.95	84.75
14	Supply and fixing of following plants and decorative / border / seasonal plants / etc. around the lawn as directed by Engineer-in-charge. , Flowering Bushes (Hybiscus, Nerium etc., of 0.50 to 1.00 meters height).	75.00	Each	40.00	3000.00
15	Providing best quality korean carpet / shady grass turfing to the lawns as per the required profile and shape rolling, watering for six days as directed by Engineer-in-charge.	450	One Sqm	165.00	74250.00
16	Coveyance of excavated earth upto a lead of 2 km as directed by engineer- in - charge	130.00	One Cum	56.41	7333.30
				subtotal	1270596.05

Total Amount (A+B+C) Rs. 1,860,524.76

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	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.	