

BHARAT HEAVY ELECTRICALS LIMITED					
HPEP, RAMACHANDRAPURAM, HYDERABAD-32					
(Township Administration Department)					
	Schedule-A PRICE BID	Tender Notice No: HY/TA/OT-17/2020-21 , Date: 01.01.2021			
Name of work:- <i>Structural Restoration of Balamandir Over Head Water Tank, BHEL Township, Ramachandrapuram, Hyderabad.</i>					
SL.NO	Description	Units	Qty	Rate (inRs)	Amount (in Rs)
1	Chipping of loose and spalling concrete of columns, beams, stairs, Dome Circle, Dome Walls etc; cleaning of reinforcement carrying out sand blasting, application of anticorrosive zinc rich epoxy primer to the exposed reinforcement (incl. cost of tools, material, labour etc,) complete as directed by engineer incharge.	Sq.Mts	300.00	344	103200
2	Drilling of 14mm dia hole to a depth of 75mm drilled at 500 mm C/C staggered pattern for columns, beams etc., and fixing shear connectors of 8mm dia rebar shear connectors TMT 500 using polyster resin grout (sysgrout 657 or its equivalent) incl. cost of all materials, labour etc. complete as directed by engineer-in-charge.	Nos.	1000.00	79.59	79590
3	Supply and application of one coat protective epoxy coating and shotcrete surface using sikka Icosit K-25 or its equivalent including cost of material labour etc. Rate inclusive of material, labour, equipment, hire charges, tools and tackles, etc., complete as directed by engineer-in-charge.	Sq.Mts	300.00	361.51	108453
4	Carrying out 50 - 60 mm thick shotcreting using a mix proportion of 1:2:2 (cement : sand : 6mm down aggregate) added with polypropylene fibers at a dosage rate of 125 gms/ bag of cement (incl. cost of material, labour etc.), rate inclusive of material, labour, equipment, hire charges, tools and tackles, etc complete as directed by engineer-in-charge	Sq.Mts	300.00	1113.66	334098
5	supply, fabrication and fixing of 50x50x5mm geogrid tied to shear connectors / exposed reinforcement including cost of material, labour etc complete as directed by engineer-in-charge	Sq.Mts	300.00	271.3	81390
6	Centering and shuttering including strutting, propping etc. and removal of form work, for columns, pillars, piers, abutments, posts and struts at height up to 45mts etc. complete as per direction and complete satisfaction of the engineer-in-charge.	Sq.Mts	1050.00	377.6	396480
7	Supplying and applying "high performance, pigmented aliphatic acrylic, chloride ion and carbonation protective and decorative coating for concrete and masonry uses, of (Fosroc / sika / BASF) brand" exterior wall paint of approved shade, 2-coats after through cleaning of the existing or newly plastered surfaces including cost of all labour, machinery, etc. at a height up to 45m all complete as per the direction and complete satisfaction of the engineer in charge. the chemicals and application procedures have to be approved by engineer-in-charge before use	Sq.Mts	500.00	96	48000
8	Conducting non distructive testing of the repaired surface or more upto a height of 45mtrs by means of rebound hammer, ultrasonic pulse velocity test. Including supply of equipment, scaffolding, testing, supplying report all complete as per the instruction of the site engineer.	Nos.	1.00	86400	86400
9	Dismantling of Structural Steel	Kgs.	3000.00	1.24	3720

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10	Labour charges for fabricating all heavy steel works like Trusses, Stanchions, Heavy Beams and Girders including cost of welding rods, power charges, etc excluding cost of fixing in position (Steel wil be free issued)	Kgs.	3000.00	12.8	38400
11	Labour charges for fixing heavy iron grills , Trusses, Stanchions, Heavy Beams and Girders erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position	Kgs.	3000.00	11.2	33600
12	Painting:-1) Steel structure is to be painted with 2 coats of Grade I enamel paint.	Sq.Mts	126.00	87.2	10987.2
13	Earth work in excavation by mechanical means (hydraulic excavator) / manual means over areas including backfilling all kind of soil depth up to 1.5M as directed Engineer-in-charge	Cu.Mts.	10.00	432	4320
14	Providing & Applying Corrosion inhibitor coating to RCC members including lead and lift, men and material etc. complete as per specification, standard practice including lead and lift men machinery and material complete as per the direction and complete satisfaction of the Engineer-in-Charge	Sq.Mts	200.00	38.4	7680
15	Providing and applying of bonding epoxy agent on cleaned dried surface all complete as per the specification, drawing and direction of EIC.	Sq.Mts	600.00	348.8	209280
16	Reinforcement (make TATA, VIZAG Steel, Jindal) for concrete encasement work using Thermo-mechanically treated bars, HYSD bars, mild steel, including straightening, cutting, bending, placing in position and binding all complete as directed by Engineer-in-charge	Kgs.	3500.00	72	252000
17	Centering and shuttering for concrete encasement work including strutting, propping etc. and removal of form work, complete as per direction and complete satisfaction of the Engineer-inCharge.	Sq.Mts	300.00	384	115200
18	Providing and laying 75mm thick encasing concrete of M25 grade for the existing structure including vibration, curing, all complete with all lead and lift complete excluding cost of steel, Shuttering and fabrication charges all complete as per the specification, drawing and directions of EIC.	Cu.Mts.	30.00	14720	441600
19	Cutting out cracks in V-section, cleaning out, sealing with PMM , drilling holes, fixing nozzles, Pressure grouting with a pressure of 3 -4 Kg/Sq cm using cementatious grout mixed with non shrink admixture including cost of material, labour, complete as per specification.	Sq.Mts	35.00	288	10080
20	Providing and fixing 3/4" x 24G chicken mesh/CI wire netting using concrete nails, U shape nails, GI binding wire etc all complete.	Sq.Mts	500.00	72	36000
21	Providing waterproof plaster 12 mm thick in CM 1:4 and as per specification given . Rate inclusive of materials, labour, equipment, hire charge, tools and tackles, etc., complete.	Sq.Mts	500.00	432	216000
22	Sealing of cracks/porous with epoxy grout by injection through nipples complete as per specification.	Kgs.	10.00	1120	11200

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23	Supplying and Applying Curing compound application on the restored concrete surface of RC columns, beams etc. up to a height of 45m, as per manufacturer specification including lead, lift, man, machine and material all complete as per the direction and complete satisfaction of the engineerin charge.	Sq.Mts	600.00	64	38400
24	Supplying and Appling painting at site of all structural steel work with 2-coats of aluminum or synthetic enamel paint of Asian/Berger or equivalent brand and approved shade after thorough cleaning of the surface, to trusses, columns, girders, bracings etc., manually with wire brush etc./mechanically all complete as per the direction and complete satisfaction of the Engineer in Charge.	MT	10.00	1400	14000
25	Supplying and Applying “High performance , pigmented aliphatic acrylic, chloride ion and carbonation protective and decorative coating for concrete and masonry Uses, of (Fosroc / Sika / BASF) brand” exterior wall paint of approved shade, 2-coats after through cleaning of the existing or newly plastered surfaces including cost of all labour, machinery, etc. at a height up to 45m all complete as per the direction and complete satisfaction of the Engineer in charge	Sq.Mts	650.00	144	93600
26	Providing two coats of Food grade epoxy paint inside the container of the tank as per direction of EIC. Rate inclusive of materials, labour, equipment, hire charge, tools and tackles, etc., complete.	Sq.Mts	400.00	128	51200
27	Carriage of debris by mechanical transport including loading, unloading and stacking, with in refinery premises upto 5 Kms.	Cu.Mts.	10.00	600	6000
Total Amount Rs. =					2830878.2
Agency to quote in below format only.					
Tender %	In words				
Excess					
Less					
Estimate					
Notes:					
1	Agency has to quote his prices by considering consolidated wages /Bonus payable to workers/ BHEL wages (which consists of state Govt. minimum wages and additional payments), allowances, materials involved in agency scope and other statutory dues payable to workers.				
2	Agency supervisor shall control the deployed work force. Agency during the execution of work shall not cause any damage to other areas. It is the agency responsibility to replace any damaged material / equipment with its own cost.				
3	Agency supervisor shall look after the working areas where the work has been carried out.				
4	The Agency supervisor shall do frequent checking.				
5	Agency supervisor is the overall in-charge of the work. Single Point of Contact (SPOC) during the work.				
6	Agency supervisor is to ensure workers are posted in their respective posts as per the directions of BHEL officer in-charge and record to be submitted daily.				
7	To ensure all the communication given by BHEL officer is to be passed to the workers promptly.				
8	To ensure required guidance, training etc. is provided to the workers at their respective works to be carried out beside the				
9	Custodian of the daily attendance.				
10	Supervisor shall stay at the site until he total work is done and ensures the same for the workers too.				

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11	Any incidents occurred during the work has to bring it to the notice of the BHEL officer in-charge and if necessary depends on the situation report has to submitted to the police station.	
12	Monitor the performance of the workers and their quality of service.	
13	Report of the daily work done shall be submitted daily with duly signed with stamp.	
14	Workers to alert and inform his superiors about any suspicious materials found within the Township Premises.	
15	Supervisor has to check each work area and alert the workers who are working at their respective place to perform their works as instructed by BHEL Engineer-in-charge.	
16	Supervisor along with supporting workers has to report to BHEL Officer in-charge and they have to follow the instructions given by the BHEL Officer in-charge.	
17	During any public functions / festivals / sports events / school events / BHEL Management events / any VIP visits / any elections etc., Supervisor has to follow the guidelines given by the BHEL Officer In-charge for performing the works.	
18	All group gathering by engaged work force / drunk & drive / accidents / group fighting / rash driving etc., has to be taken monitor by the Supervisor.	
19	As per the time-to-time instructions given by the BHEL management, supervisor along with their staff has to work with the given instructions.	
20	During the execution of contract, if required, agency shall work on Sundays and holidays also as per the direction of Engineer-	
21	Penalty as per the clause 2.1.36 shall be applicable.	