



BHARAT HEAVY ELECTRICALS LIMITED

HPEP, RAMACHANDRAPURAM, HYDERABAD-502032
FACTORY CIVIL & PROJECTS DEPARTMENT

PRICE BID

Ref No: Tender Notice No: **HY / FCD / OT-06 / 2022-23, date: 06.07.2022****Bill of Quantities**

Name of the work: "Annual Maintenance Contract for Maintenance of Structural Steel works, AC / GI / Galvalume and other sheet roofing, Rainwater pipes, crane rails etc., and Maintenance works like cleaning of cobwebs from roofs, cleaning of valley gutters, North Glasses / Polycarbonate sheets and glass panes in Factory and Admn. Building."

SNo	Description	Unit	Unit Rate	Quantities	Amount
PART-A: Maintenance of Structural Steel works, AC / GI / Galvalume & other sheet roofing, Rainwater pipes.					
1	Repairing the leaking PVC joints of rain water pipes, at all levels in factory blocks. The work includes opening of joints, cleaning properly and applying sealing compound to arrest further leakages in the joints. The rate quoted shall include cost of all jointing materials and labour etc., complete all as directed by Engineer-In-Charge.	Each	Rs. 35.69	215.00	Rs. 7,673.35
2	Closing of sheet cracks, bolt holes or any punctures in the AC / GI / Galvalume or any other sheets at roof levels. (Required consumable materials will be issued by BHEL free of cost at their stores)	Each	Rs. 8.78	200.00	Rs. 1,756.00
3	Removing old GI bolts, nuts and washers from the existing AC / GI / Galvalume or any other sheeting work or roofs and side cladding of factory blocks and fixing with new GI 6.5mm dia 'J' / 'L' bolts with nuts, washers, bitumen washers etc., complete as directed. The new GI bolts should be dipped in Acid / Alkali resisting paint before fixing in position. The bolts, nuts and washers etc., should be suitable as per site conditions. (GI 'J' Bolts & 'L' Bolts, washers and nuts will be issued by BHEL free of cost at their stores).	Each	Rs. 2.69	80.00	Rs. 215.20
4	Removing the existing broken AC / CI / MS / PVC pipes and fixing new PVC pipes of 100 mm to 200 mm dia and standard length including cost of jointing materials, labour, adhesive etc., complete as directed including handing over of dismantled pipes to Dept. (PVC pipes and specials will be issued by BHEL free of cost at their stores).	m	Rs. 72.92	200.00	Rs. 14,584.00
5	Fabricating and fixing MS Clamps of 50 mm width fabricated with MS flat / plate of 3.15 to 5 mm thick for PVC pipes of 150 mm dia at all heights of blocks, drilling suitable holes for clamping the pipe with bolts of 16 mm dia of suitable length with nuts, welding the clamps to the MS columns etc., complete as directed by Engineer-In-Charge. The rate quoted shall include cost of bolts, nuts and washers, painting two coats with Synthetic Enamel paint over a coat of red oxide primer. (MS plates, flats, acetylene, oxygen will be issued by BHEL free of cost at their stores)	Each	Rs. 29.64	60.00	Rs. 1,778.40
6	Fixing MS / GI flashing over the roof of Factory Blocks or outside walkways, gutters and around ducting including cutting, bending, fixing in position etc., complete as directed by Engineer-In-Charge.	m ²	Rs. 98.02	80.00	Rs. 7,841.60
7	Making locking arrangements to paneled steel door shutters / sliding doors / rolling shutters such as aldrops, tower bolts if any. Such arrangements including gas cutting, welding etc., complete as directed by Engineer-In-Charge.	Each	Rs. 277.62	80.00	Rs. 22,209.60

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SNo	Description	Unit	Unit Rate	Quantities	Amount
8	Fabrication and erection of paneled steel door shutter sliding or hinged, including gas cutting, welding of sheets or angles or any other steel section wherever required etc., complete as directed by Engineer-In-Charge. (Structural steel sections will be issued by BHEL free of cost at their stores).	m ²	Rs. 204.31	75.00	Rs. 15,323.25
9	Dismantling MS partitions (weld mesh or glazed or paneled etc.) of standard size 1.20 m X 2.40 m or 1.20 m X 3.30 m including MS Posts and transportation & stacking the materials for reuse etc., complete as directed by the Engineer-In-Charge. (The rate shall include removing glass panes before dismantling glazed partitions and stacking glass panes).	MT	Rs. 530.01	3.00	Rs. 1,590.03
10	Fabrication of MS partitions (weld mesh or glazed or paneled etc.) of the following sizes as directed by the Engineer-In-Charge. (Structural steel sections will be issued by BHEL free of cost at their stores).				Rs. 0.00
10.i	Size: 1.20 m X 2.40 m	Each	Rs. 463.68	12.00	Rs. 5,564.16
10.ii	Size: 1.20 m X 3.30 m	Each	Rs. 616.33	2.00	Rs. 1,232.66
11	Erection of MS partitions (no fabrication) (weld mesh or glazed or paneled etc.) of the following sizes, with required MS posts for fixing with nuts & bolts, drilling holes in CC floor complete as directed by Engineer-In-Charge. The rate shall include cost of fixing glass panes after erection of partition frame in case of glazed partition.				Rs. 0.00
11.i	Size: 1.20 m X 2.40 m	Each	Rs. 368.74	7.00	Rs. 2,581.18
11.ii	Size: 1.20 m X 3.30 m	Each	Rs. 535.32	4.00	Rs. 2,141.28
12	Erection of steel doors for MS steel partition for cabins (weld mesh or glazed or paneled) with required MS posts and all accessories such as hinges, aldrops etc., including gas cutting, welding etc., complete as directed by Engineer-In-Charge. (The rate shall include fixing glass panes after erection of door in case of glazed doors). [Size approximately 1.20 m X 2.40 m (or) 1.20 m X 3.30 m]	Each	Rs. 61.27	7.00	Rs. 428.89
13	Fixing of weld mesh / expanded metal to angle iron frame of suitable size for RCC louvers / ceiling including gas cutting and welding as directed by the Engineer-In-Charge. (MS angle iron frame, weld mesh / expanded metal will be issued by BHEL free of cost at their stores).	m ²	Rs. 57.34	80.00	Rs. 4,587.20
14	Dismantling of weld mesh / expanded metal from ceiling including gas cutting etc., complete as directed by Engineer-In-Charge. The dismantled materials should be handed over to BHEL stores for reusing the same wherever it is required.	m ²	Rs. 30.21	40.00	Rs. 1,208.40
15	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 welding as necessary and all site connections. The rate shall include painting with one coat of red oxide as per I.S. specification and all site charges for handling, leading, loading & unloading, transportation of materials to & from stores, fabrication yard etc., and to site. (The raw structural steel sections acetylene, oxygen will be issued by BHEL free of cost at their stores).	MT	Rs. 8,387.69	40.00	Rs. 3,35,507.60
16	Erection of structural steel work outlined above including the charges for handling, leading and stocking / stacking at the site at approved locations prior to erection include all welding, riveting, bolting, jointing and site welding etc., complete as directed by the Engineer-In-Charge.	MT	Rs. 3,594.86	40.00	Rs. 1,43,794.40

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SNo	Description	Unit	Unit Rate	Quantities	Amount
17	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc., including dismembering, loading, unloading, transportation and stacking in factory scrap yard upto 2 km lead.	MT	Rs. 1,528.71	40.00	Rs. 61,148.40
18	Dismantling the existing structural steel work carefully by loosening nuts, gas cutting as per the site conditions and re-erecting the same, suitably modifying by gas cutting, welding, drilling new holes, jointing the new members by welding or bolting etc., complete as directed by the Engineer-In-Charge.	MT	Rs. 3,600.31	6.00	Rs. 21,601.86
19	Labour charges for Erection of cycle shed of 5 spans including erection of steel posts, trusses and purlins and fixing of Galvalume / GI / AC / NonAC sheets and ridges, using 'J' / 'L' bolts, nuts, etc., complete as directed by Engineer-In-Charge.	Each	Rs. 6,270.10	1.00	Rs. 6,270.10
20	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 km including loading, unloading, transportation and spreading, levelling as directed by Engineer-In-Charge etc., complete.	m ³	Rs. 995.76	3.00	Rs. 2,987.28
21	Earth work excavation in all soils except rock requiring blasting for an initial lead of 10 m and initial depth of 1.5 m including strutting, shoring if any and dressing the bottom of excavation to receive concrete etc., complete.	m ³	Rs. 123.67	20.00	Rs. 2,473.40
22	Plain Cement Concrete 1 : 4 : 8 using 20 mm and downgraded granite stone metal for levelling course including ramming, consolidation, curing etc., complete. (60% of 20 mm metal and 40% of 10 mm metal). (Cement will be issued by BHEL free of cost at their stores).	m ³	Rs. 2,464.01	15.00	Rs. 36,960.15
23	Providing and laying in position specified grade of Reinforced Cement Concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibration for all works upto plinth level with 1 : 1½ : 3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). (Cement will be issued by BHEL free of cost at their stores).	m ³	Rs. 2,620.98	1.00	Rs. 2,620.98
24	Steel Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete by cold twisted bars (Reinforcement steel will be issued by BHEL free of cost at their stores).	MT	Rs. 6,967.54	0.50	Rs. 3,483.77
25	Dismantling of cycle shed of 5 spans including removal, transporting and stacking at BHEL stores or any other place (upto 2 km lead) for reuse of AC / GI / Galvalume sheets, ridges, purlins, trusses, columns, etc., and complete steel columns should be loosened by breaking concrete using necessary tools etc., complete all as directed by Engineer-In-Charge.	Each	Rs. 3,982.41	1.00	Rs. 3,982.41
26	Removing the existing AC sheets carefully from factory blocks and ceiling along with 'J' / 'L' bolts, nuts etc., of steel cabins and cycle sheds, transporting and stacking at BHEL stores or other specified places (upto 2 km lead) as directed by Engineer-In-Charge.	m ²	Rs. 35.94	40.00	Rs. 1,437.60
27a	Fabrication and fixing of MS / GI pipes / MS round for railings to crane gantries. Cat walkways at all heights by jointing or connecting through threading, welding etc., complete all as directed by Engineer-In-Charge..	m	Rs. 70.08	160.00	Rs. 11,212.80
27b	-----do----- ground level	m	Rs. 59.58	200.00	Rs. 11,916.00

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SNo	Description	Unit	Unit Rate	Quantities	Amount
28	Fabrication bending to shape and erection of rain water gutters at roof level including all materials going into the process of fabrication and fixing an integral part of steel work together with all rivets and electrodes for shop or site weldings necessary and all site conditions. The rate shall include removal of old/spoiled valley /eaves gutters, painting with one coat of red oxide to relevant IS specification before erection and also for all charges for handling, loading and unloading of materials at fabrication yard. The work has to be executed at full height of the blocks etc., complete all as directed by Engineer-In-Charge.	MT	Rs. 10,118.22	4.00	Rs. 40,472.88
29	Supplying and fixing Aluminum strips for fixing wire glasses including removal and disposal of the existing damaged Aluminum strips to specified places (upto a maximum lead of 2 km.) etc., complete all as directed by Engineer-In-Charge. The strips should be suitable to the glasses.	m	Rs. 116.14	15.00	Rs. 1,742.10
30	Fixing in position of North light glazing to factory blocks including fixing of wired glasses, Aluminum strips, glazing runners, accessories, bolts, nuts, washers, clamps etc., complete all as directed by Engineer-In-Charge. (Only labour charges are to be quoted, and all materials will be issued free of cost by BHEL at their stores).	m ²	Rs. 63.01	80.00	Rs. 5,040.80
31	Repairs to sliding doors / rolling shutters / paneled type doors / collapsible gates etc., in factory area including lowering of shutters, repairing in all respects such as straightening of bends, welding of sheets or angles, wherever required and re-erecting the same including locking arrangement, before and after closing the doors. The doors to be finished in good condition etc., complete all as directed by Engineer-In-Charge.				
31a	Repairs / Replacement of hinges.	Each	Rs. 85.08	7.00	Rs. 595.56
31b	Locking arrangements	Each	Rs. 70.00	7.00	Rs. 490.00
31c	Repairs to shutters	m ²	Rs. 236.84	80.00	Rs. 18,947.20
32	Removing the existing unserviceable collapsible shutter and handing over to stores , supplying and fixing in position new collapsible steel shutter with vertical channels 20 mm x 10 mm x 2 mm braced with flat iron diagonals 20 mm x 5 mm size with top and bottom rails or M.S. 'T' 40 mm x 40 mm x 6 mm with 38 mm dia steel pulleys complete with bolts and nuts, locking arrangements, stoppers, handles, including applying one coat of red oxide primer before erection and two coats of synthetic enamel paint of approved colour and brand after erection etc., complete all as directed by Engineer-In-Charge. (Including cost of all materials).	m ²	Rs. 2,135.99	2.00	Rs. 4,271.98
33	Repairs to steel windows ventilators such as welding of rivets, flats, pegstays, stoppers, parliamentary hinges and straightening of bends in the frame work etc., complete all as directed by Engineer-In-Charge. (Plates and pegstays will be given free of cost at BHEL stores).	m ²	Rs. 72.92	120.00	Rs. 8,750.40
34	Removing of AC sheet over Annexe terrace and cleaning the terrace and re-fixing the AC sheets after cleaning etc., complete as directed by Engineer-In-Charge.	m ²	Rs. 21.35	80.00	Rs. 1,708.00

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SNo	Description	Unit	Unit Rate	Quantities	Amount
35	Supply and fixing 5 mm thick polycarbonate sheets and anodised Aluminum glazing bars together with accessories complete for North light glazing including cost of all materials, labour etc., complete all as directed by Engineer-In-Charge.	m ²	Rs. 994.80	31.00	Rs. 30,838.80
36	Fixing of Aluminum zinc alloy coated metallic roofing sheet of 0.5 mm thick 1 m width and length upto 12 m 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 fasteners 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.	m ²	Rs. 82.36	800.00	Rs. 65,888.00
37	Fixing North Light curves in required girth with 0.5 mm color Aluminum zinc alloy coated metallic sheet upto a length of 2.5 m having curved width upto 600 mm fixing to the steel members with self-drilling / self-stitching, fasteners at a maximum of 500 mm c/c along the length of capping, flashing etc., complete as directed by Engineer-In-Charge. (Only North light curves will be issued free of cost at BHEL stores).	m ²	Rs. 74.88	80.00	Rs. 5,990.40
38	Repairs to Aluminum rolling shutters by supplying and replacing the damaged Aluminum strips with new one. The rate quoted shall include the cost of all materials, labour for fixing etc., complete all as directed by Engineer-In-Charge. (The payment will be made for the finished area of Aluminum strips replaced only).	m ²	Rs. 486.34	23.00	Rs. 11,185.82
39a	Supplying and fixing plain PVC pipe of 200 mm dia of 6 kg/cm ² of approved quality with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion of the fitting and fixing in position and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights etc., complete all as directed by Engineer-In-Charge.	m	Rs. 926.59	30.00	Rs. 27,797.70
39b	Supplying and fixing plain PVC pipe of 160 mm dia of 6 kg/cm ² of approved quality with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion of the fitting and fixing in position and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights etc., complete all as directed by Engineer-In-Charge.	m	Rs. 614.58	3.00	Rs. 1,843.74
40a	Painting at site of all structural steel work with 2 coats of Aluminum paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with Aluminum paint or synthetic enamel paint as required etc., complete all as directed by Engineer-In-Charge. (The required paint EXCEPT Redoxide primer only will be issued by BHEL at FREE of cost at their stores.)	MT	Rs. 658.14	27.50	Rs. 18,098.85
40b	Painting at site of all structural steel work with 2 coats of Aluminum paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with Aluminum paint or synthetic enamel paint as required etc., complete all as directed by Engineer-In-Charge. (The required paint EXCEPT Redoxide primer only will be issued by BHEL at FREE of cost at their stores.)	m ²	Rs. 17.26	1048.60	Rs. 18,098.84

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SNo	Description	Unit	Unit Rate	Quantities	Amount
41	<p>Providing and laying APP (Atactic polypropylene Polymer) Modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sq.m by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/Ltr and viscosity 70-160 Cps. over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc; and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: joint strength in longitudinal and transverse direction at 23°C as 350/300 N/Sqcm. Tear strength in longitudinal and traverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold Flexibility shall be upto - 2°C when tested in accordance with ASTM, D- 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane with 3 mm thick etc., complete all as directed by Engineer-In-Charge.</p>	m ²	Rs. 240.80	10.00	Rs. 2,408.00
42	<p>Supply & Fixing of Sealant Solution to the Aluminum zinc alloy coated metallic hi-rib profile sheet and AC sheet J-bolts nut washers to arrest the water leakages in the sheets at all heights for production blocks, including cost of all materials, labour charges, safety precautions etc. complete all as directed By Engineer-In-Charge. Make: Dow Corning (R) 736 heat resistant/ RTV/ Dr Fixit or equivalent make as certified by Engineer-In-Charge.</p>	Each	Rs. 152.40	480.00	Rs. 73,152.00
43	<p>Supply & fixing of water proofing membrane, TEXself-1.5 AL foil finish, Self-adhesive, elastomeric SBS Bitumen - based, with an embossed Aluminum foil finish on the upper side and an easily removable silicon film on the underside with an overlap of 75 mm on the longitudinal and 100 mm on the transverse directions and sealing all overlap joints with rubber roller to make the surface monolithic. The above membrane shall be fixed after thorough cleaning of surface and shall be free from grease, oil, dust, loose (or) badly adhered materials and any general dirt and applying PIBIAL, solvent based bituminous primer @ 0.300 kg/m², on thorough cleaned surface and before fixing of TEXself-1.5 AL foil finish, self-adhesive, water proofing membrane, as directed by Engineer-In-Charge. It includes cost of all materials, labour, transportation charges, all taxes and duties, except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents. The work is to be carried out through authorised applicator of the manufacturer.</p>	m ²	Rs. 501.71	120.00	Rs. 60,205.20

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SNo	Description	Unit	Unit Rate	Quantities	Amount
44	Re-alignment of EOT Crane rails of size from 52.1 kg rail to CR 120 rails: Dismantling of existing rail clamps, realignment of existing rails using proper shims for levelling , cutting of rails at irregular/damaged joints, closing in the joints leaving a expansion gap of 10mm between rails, welding the clamps to the girder at specified intervals and clamping the rail. The rails are to be realigned carefully to ensure the relative distance between the rail and the DSL line is not disturbed. Minimum of 2 SW, 2 SSW and 2 USW shall be engaged for the above work. The rate includes tools, machinery, labours, Safety PPE's etc., complete all as directed by Engineer-In-Charge.. (Only rail clamps, welding electrodes, and rails shall be issued free of cost at BHEL stores).	m	Rs. 142.76	80.00	Rs. 11,420.80
45	Dismantling of the damaged / worn-out rail sections, and Erection and alignment of rails to an even level with proper shims and clamps. The dismantled rails are to be conveyed and stacked at the departmental stores upto a lead of 2 km etc., complete all as directed by Engineer-In-Charge. (Only rails, clamps and welding electrodes shall be issued free of cost at their stores)	MT	Rs. 3,606.84	11.00	Rs. 39,675.24
46	Removing of old AC sheets, translucent sheets from roof, side walling of factory blocks and sheds and refixing with new / old sheets at all height including transportation of AC sheets and disposing off old sheets to a lead of 2 km etc., complete all as directed by Engineer-In-Charge. (Required consumable materials shall be issued by BHEL free of cost at their stores).	m ²	Rs. 66.49	15.00	Rs. 997.35
47	Supplying and fixing of Fibre Reinforced acrylic roofing sheets 3mm thick of light blue/white shade & of approved brand to match with Roofing sheet including cost of all materials such as self-driven bolts, nuts, washers etc. and fixing at all heights of the factory blocks etc., complete all as directed by Engineer-In-Charge.	m ²	Rs. 1,231.05	3.00	Rs. 3,693.15
48	Supply & Fixing of 0.5 mm thick colour sheet flashings hood / ridges / triangular portion closers to require shape with self-threaded screws etc., complete all as directed by Engineer-In-Charge.	m ²	Rs. 850.94	23.00	Rs. 19,571.62

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SNo	Description	Unit	Unit Rate	Quantities	Amount
49	Supply & fixing of non colour (bare) coated Galvalume hi-rib profile sheet of nominal 1015-1020/1000-1080 mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205 mm centre-to-centre. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) or 0.5mm TCT, Hi-strength steel with minimum 550 MPa yield strength, metallic hot dip coated with Aluminum-Zinc alloy (55% Aluminum, 45% Zinc) as per AS 1397 —Zincalume AZ150 (Min. 150 gms/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 pm, comprising of nominal 20 pm exterior coat on top surface and nominal 5 pm reverse coat on back surface over nominal 5 pm primer coat on both surfaces of approved colour shade by concern authority. The sheet shall be crest fixed to roof purlins with number 12-14 x 55 mm long polymer coated galvanized hex-head self-drilling screws with integral washers and EPDM seals (4 fasteners per support) for sheet etc., complete as directed by Engineer-In-Charge. (Supply of material in the scope of contractor including all fasteners).	m ²	Rs. 500.15	10.00	Rs. 5,001.50
50	Supply and Fixing North Light curves in required girth with 0.5 mm color Aluminum zinc alloy coated metallic sheets upto a length of 2.5 m having curved width upto 600 mm fixing to the steel members with self-drilling / self-stitching, fasteners at a maximum of 500 mm c/c along the length of capping, flashing etc., complete as directed by Engineer-In-Charge including the cost of Aluminum zinc alloy coated metallic sheets, labour etc., complete.	m ²	Rs. 680.76	10.00	Rs. 6,807.60
51	Providing & Fixing of non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS: 14871) Roofing, North light curves, Flashings, Ridges and other specials suitable to the sheeting works etc. up to any pitch and fixing with polymer coated J, or L hooks & bolts including cutting sheets to size and shape wherever required. The profile should match with the existing roof sheeting and as approved by Engineer-In-Charge. and all related parameters is to be matched is as per IS 14871. The test certificate pertaining to for breaking load test is to be submitted by the agency from the reputed lab for approval and also all other test and pitch and height of corrugation physical characteristics is as per IS 14871 etc. complete all as directed by Engineer-In-Charge. The work is to be carried out above 20 m height etc. complete all as directed by Engineer-In-Charge. Before quoting the agencies are advised to study the all parameters of the roof sheeting work in IS 14871.	m ²	Rs. 460.81	3.00	Rs. 1,382.43
52	Cleaning, removing rust with grinder, doing wire brush on the existing gutter, applying chemical coating and placing of 1mm fibre sheet and applying the chemical coating on the fibre. The above procedure is adopted up to the 3mm thickness layer.	m ²	Rs. 1,705.77	23.00	Rs. 39,232.71
Sub-Total of PART-A, excluding GST					Rs. 12,61,420.62

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SNo	Description	Unit	Unit Rate	Quantities	Amount
PART-B: Maintenance works of cleaning of cob webs from roofs, cleaning of valley gutters, North glasses / Polycarbonate sheets and glass panes.					
1	Cleaning of North light glasses / polycarbonate sheet on both sides at roof level of factory blocks with paint remover or any suitable chemical solution to the satisfaction of the Engineer-In-Charge. The glazing will be consist of 1.52 m and 1.22 m with an overlap and air gap.	m ²	Rs. 29.48	1680.00	Rs. 49,526.40
2	Removing cobwebs, including cleaning the dust from the roof sheeting, structures, wired glasses, cranes, girders, gantries, side sheeting and cladding and from top of internal annexes, cabins partitions and sweeping the floor of the resultant dust and waste and disposing the same to specified places (upto a lead of 2 km) as directed by Engineer-In-Charge. (The measurement will be as per the floor area of the factory blocks).	m ²	Rs. 0.41	70000.00	Rs. 28,700.00
3	Cleaning of valley gutters over the factory roof including cleaning the dust, muct etc., from the AC sheets and pouring the waste materials through buckets or with gunny bags by arranging all necessary safety precautions and disposing off the same to specified areas (upto a lead 2 km.) as directed by Engineer-In-Charge. The rate shall include for sweeping of factory floors to remove any dust fallen during the operations etc. complete all as directed by Engineer-In-Charge (measurements as per rain water gutter lengths).	m	Rs. 1.04	7000.00	Rs. 7,280.00
4	Cleaning of roof, roof terraces with brooms and brushes and removing the debries including removing the weeds on the walls and terraces, canopies, chajjas etc., complete all as directed by Engineer-In-Charge (Payment will be made as per plinth area of the building).	m ²	Rs. 0.42	16800.00	Rs. 7,056.00
5	Cleaning glass panes of window, partitions with paint remover and thinner , to remove the strains on both sides of glasses etc., complete all as directed by Engineer-In-Charge (Payment will be made to one side area of the glasses only).	m ²	Rs. 3.85	120.00	Rs. 462.00
Sub-Total of PART-B, excluding GST					Rs. 93,024.40
Total Cost of PART-A and PART-B, excluding GST					Rs. 13,54,445.00



Name of the work: "Annual Maintenance Contract for Maintenance of Structural Steel works, AC / GI / Galvalume and other sheet roofing, Rainwater pipes, crane rails etc., and Maintenance works like cleaning of cobwebs from roofs, cleaning of valley gutters, North Glasses / Polycarbonate sheets and glass panes in Factory and Admn. Building."

Notes:	
1	Risk Purchase : 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 Nil. The security deposit will be released after satisfactory completion of the work including Maintenance Period and after getting I.R clearance and payment of final bill.
4	Penalty terms: Refer Clause 2.1.3 of NIT The following Penalties are envisaged in the contract and shall be assessed and recovered independently: (a) DELAY IN COMPLETION OF WORK: In the event of delay in supply of goods or services or works beyond contractual delivery date, a 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. (b) DELAY IN DEPOSITION OF SECURITY DEPOSIT: (i) If the Contractor fails to deposit the required Security Deposit as mentioned in LoI, within ONE week period from the date of issue of LoI, a penalty of 5% per week delay or part thereof of total Security Deposit amount for the contract value, subject to a maximum of 30% of total Security Deposit amount shall be levied as penalty and recovered from his bills along with GST, as applicable. (ii) If the Contractor fails to deposit the required Security Deposit within TWO weeks period from the date of issue of LoI [or] on / before the respective date as mentioned in LoI, whichever is earlier, EMD shall be forfeited and the Contractor / Tenderer will automatically be suspended from being eligible for bidding in any contract with BHEL for a period of TWO years from the date of notification.. (c) DELAY IN COMMENCEMENT OF WORK: If the Contractor fails to commence the work within the FIFTEEN (15) days period from the date of issue of LoI or respective date as per LoI / Work Order or as requested by BHEL, whichever is earlier, a penalty of 0.5% of Contract value per week delay or part thereof or EMD whichever is higher, subject to maximum of 10% of Contract value shall be recovered. Penalty amount so determined along with GST, if applicable thereon shall be recovered. (d) USAGE OF AGGREGATES: Coarse and Fine Aggregates shall be conforming to IS 383. However, if Crushed stone sand is used in masonry / concrete / plastering or any other cement related work(s), Amount payable for such item shall be reduced by 20% (TWENTY PERCENT) to the extent of quantity executed using crushed stone sand (also locally called as robo sand etc.). (e) Violation of applicable safety, health and environment related norms, a penalty of Rs. 5,000/- (Rupees Five thousand) per occasion shall be imposed.
5	Taxes: 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.



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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 the workers with statutory payments like ESI, PF etc., as per BHEL Notification. For wages, refer Clause-10.11 of NIT. Payments and increase in statutory payments like ESI, PF, PPE's etc., and increase in future DA shall be borne by the Contractor.
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.

GST CLAUSES

Following points to be complied with :

1	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.
2	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.
3	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.
4	Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter /Intra state movement Supply of goods and services or both.
5	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.
6	Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.
7	Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.
8	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.



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9	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.
10	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.
11	A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.

Tender %	In Figures	In Words
Excess		
Less		
At par with Estimated value		

Note :	1) The bidders are required to quote the tender value on percentage (%) basis at excess or less or at par with estimated value in figures and words. Bidders are requested to fill only one row. 2) The rates are excluding GST.
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