



**PRICE BID**  
**SCHEDULE - A :: BILL OF QUANTITIES**

Tender Notice No.: HY/FCD/OT-08/2022-23, date: 17.08.2022  
AMC for Carpentry Works, Factory Civil.

**BHARAT HEAVY ELECTRICALS LIMITED**  
HPEP, RAMACHANDRAPURAM, HYDERABAD-502032  
FACTORY CIVIL DEPARTMENT

**Name of work:** "Annual Maintenance Contract for Miscellaneous Carpentry works in Factory area & Administrative Building" for FY 2022-23

SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
1	Fixing the given commercial ply / teak ply royal teak sheets to the wooden frame. The rate shall include removal of existing sheets, cost of nails, screws and position jolly insulex board / masonite board, thermocole sheets for false ceiling / wall paneling including removing existing damaged boards etc. complete all as directed by Engineer-In-Charge. <b>(Only required sheets and false ceiling boards shall be issued free of cost by BHEL at their stores).</b>	m <sup>2</sup>	2.00	Rs. 26.40	Rs. 52.80
2	Fixing of flush or paneled shutters (single / double leaf) to the wooden frame wherever required, including cutting, planing, fixing hinges, aldrops, mortise lock, tower bolts, etc. complete all as directed by Engineer-In-Charge, <b>which will be supplied free of cost by BHEL at their stores.</b> (Only labour charges)	m <sup>2</sup>	2.00	Rs. 102.63	Rs. 205.26
3	Supplying and Fixing of commercial type double leaf flush shutters solid core non-decorative type conforming to IS: 2202 Part-I. 30 mm thick (commercial ply on both sides) of approved quality and brand including 6 Nos M S hinges 10 cm, and 2 Nos. Aluminum tower bolt 20 cm long and 1 No. Aluminum aldrops 300 mm long, including cost of materials and labour etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	12.00	Rs. 626.44	Rs. 7,517.28
4	Supply and Fixing of wood work in frames of doors, window, celerestory windows and other frames, wrought framed and put in position including cost of MS hold fasts, painting with two coats of coal tar, cost of labour etc., complete all as directed by Engineer-In-Charge. (Running length and size of teak wood scantling used for making frames will be measured for payment)	m <sup>3</sup>	0.10	Rs. 57,349.62	Rs. 5,734.96
5.a	Supply and Fixing of false ceiling frame made out of 25 x 25 x 1.3 mm Aluminium 'T' and wall angles in a grid pattern of 0.60 x 0.60m suspended with 6 mm dia MS rounds with adjustable bolts etc., including cost of all materials, labour etc., complete all as directed by Engineer-In-Charge – <b>with 4 mm thick flexo board (A. C)</b>	m <sup>2</sup>	1.00	Rs. 471.64	Rs. 471.64
5.b	-do- with 12 mm thick Nova teak / Kit Ply – plain or semi perforated particle board	m <sup>2</sup>	1.00	Rs. 676.12	Rs. 676.12
5.c	-do- with 19 mm thermocole board	m <sup>2</sup>	40.00	Rs. 399.62	Rs. 15,984.80
6.a	Supply and Fixing of false ceiling boards / tiles of size 0.60m x 0.60m, including removing the damaged ceiling tiles etc., complete all as directed by Engineer-In-Charge with the following boards – <b>with 12 mm thick (Nova teak or Kitply) plain / semi perforated particle board.</b>	m <sup>2</sup>	6.40	Rs. 384.44	Rs. 2,460.42
6.b	-do- with 12 mm thick jolley insulex board.	m <sup>2</sup>	0.50	Rs. 361.32	Rs. 180.66
6.c	-do- with 4 mm thick flexo boards (A.C)	m <sup>2</sup>	0.50	Rs. 193.52	Rs. 96.76
6.d	-do- with 4 mm thick hard board.	m <sup>2</sup>	0.50	Rs. 184.40	Rs. 92.20
6.e	-do- with 19 mm thick thermocole boards	m <sup>2</sup>	0.50	Rs. 64.93	Rs. 32.47



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
7	<b>Dismantling the existing wooden / Aluminum partitions</b> into small units including removing doors, glass panes, etc., transporting, planing, cutting, and re-assembling of partitions, doors, glass panes etc., complete. Rate quoted shall include the cost of all materials required for reassembling such as nails, screws, fevicol etc. all as directed by the Engineer-In-Charge.	$m^2$	60.00	Rs. 245.25	Rs. 14,715.00
8	<b>Dismantling the existing wooden / Aluminum partitions</b> into small units including removing doors, glass panes, etc., transporting and stacking carefully for reuse, in the departmental stores complete. All as directed by the Engineer-In-Charge.	$m^2$	20.00	Rs. 129.20	Rs. 2,584.00
9	<b>Repairs to the existing wooden / Aluminum partitions</b> and doors, removing the bends, repairing the spoiled/damaged joints of frames and re-fixing them in position including cutting, planing etc., complete all as directed by Engineer-In-Charge. The work and rate includes the removal of glass panes and doors if any and re-fixing them in position. The rate quoted shall include cost of all materials required for the work such as nails, screws, Fevicol etc.	$m^2$	80.00	Rs. 64.05	Rs. 5,124.00
10	<b>Fixing G.I. sheets / decolam sheets to door shutters</b> as directed by Engineer-In-Charge. <b>(Materials required will be supplied free of cost by BHEL at BHEL stores)</b> . The rate shall include removal of existing sheets, the cost of nails, screws Fevicol etc., required for the work etc., complete all as directed by Engineer-In-Charge.	$m^2$	1.00	Rs. 91.14	Rs. 91.14
11	<b>Supply and fixing M.S. clamps of size 150 x 50 x 3 mm</b> to wooden partition frames and RCC columns beams slabs, masonry walls etc., to fix the partitions rigidly using screws and nails etc., complete all as directed by Engineer-In-Charge.	Nos.	2.00	Rs. 50.62	Rs. 101.24
12	<b>Polishing two or more coats on new wood work with French spirit polish</b> including a coat of wood filler as directed by Engineer-In-Charge. Rate shall include cost of all materials and primer & filler, if required.	$m^2$	120.00	Rs. 84.01	Rs. 10,081.20
13	<b>Polishing one or more coats with French spirit polish</b> to old wood work as directed by Engineer-In-Charge. Rate shall include cost of all materials and primer & filler, if required.	$m^2$	2.00	Rs. 74.59	Rs. 149.18
14.a	<b>Fixing of 3 mm / 4 mm thick glass of plain / opaque / pin headed etc.,</b> with MS glazing clips and putty at all floors of buildings. The rate quoted shall include removal of broken glasses, cleaning old putty etc., complete from the old windows / partitions at all heights of the buildings, as directed by Engineer-In-Charge. <b>(Only required glass will be supplied free of cost by BHEL at BHEL stores)</b>	$m^2$	2.00	Rs. 150.70	Rs. 301.40
14.b	<b>Supply and Fixing of 4 mm thick glass of plain / opaque / pin headed etc.,</b> with MS glazing clips and putty at all floors of buildings. The rate quoted shall include removal of broken glasses, cleaning old putty etc., complete from the old windows / partitions at all heights of the buildings, as directed by Engineer-In-Charge.	$m^2$	10.00	Rs. 625.50	Rs. 6,255.00



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
15	Supply and Fixing of glazing in Aluminum door, window, ventilator shutters and partitions etc., with EPDM rubber / neoprene gasket etc., complete as per the architectural drawings and the directions of Engineer-In-Charge. <b>4mm Thick, Make: Modi float / Saint Gobain</b>	m <sup>2</sup>	24.00	Rs. 775.29	Rs. 18,606.96
16	Supply and Fixing of glazing in Aluminum door, window, ventilator shutters and partitions etc., with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-In-Charge. <b>5.5mm Thick, Make: Modi float / Saint Gobain</b>	m <sup>2</sup>	64.00	Rs. 968.12	Rs. 61,959.68
17	Manufacturing & Fixing of door frame / air conditioner frames with the given wooden scantlings issued free of cost at BHEL stores. The rate shall include cost of all hardware materials like nails, screws, fevicol, holdfasts etc. complete as directed by Engineer-In-Charge.	m <sup>2</sup>	1.00	Rs. 175.02	Rs. 175.02
18	Supply and Fixing of 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade-I Type-II, in paneling fixed in Aluminum doors, windows shutters and partition frames with CP brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-In-Charge.	m <sup>2</sup>	60.00	Rs. 1,036.74	Rs. 62,204.40
19	Repairs to the existing Armstrong false ceiling including dismantling and removal of damaged 'T' angles, wall angles, intermediate channels, and re-fixing the false ceiling with new wall / Tee / intermediate angles and channels in place of damaged sections including dismantling of existing false ceiling and providing the false ceiling in new locations. It also includes anchoring the ceiling grid with GI wire to the ceiling with rawl plugs, hooks, levelling and fixing of boards etc. complete as directed by Engineer-In-Charge.	m <sup>2</sup>	200.00	Rs. 275.23	Rs. 55,046.00
20.a	Supply and Fixing of Armstrong mineral fibre false ceiling boards of following models - <b>Prima Dune Plus Tegular edge 600 x 600 mm</b>	m <sup>2</sup>	24.00	Rs. 856.54	Rs. 20,556.96
20.b	-do- Microlook Tegular edge / Plain 600 x 600 mm	m <sup>2</sup>	16.00	Rs. 856.54	Rs. 13,704.64
21	Repair to the sliding doors of built in cup boards, repairs including removal of MS tees / channels, casters etc., converting the sliding shutters hinged type shutters with required modification to the shutters and using the following fixtures to a pair of shutters (a) 1" continuous hinges - 2 Nos; (b) knobs - 2 Nos; (c) 3" Aluminum tower bolts - 2 Nos. The rate shall include cost of modification to shutters, cost of all materials and polishing with one coat of polish. (The payment will be made for the surface area of shutters) etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	120.00	Rs. 336.45	Rs. 40,374.00



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
22	<b>Supply and Fixing of Aluminum partitions with new anodised aluminum box section</b> of size 101.60 x 44.45 x 2.00 mm for verticals, and with 63.50 x 38.10 x 2.00 mm for horizontals, spacing suitable to the site requirements and as approved by Engineer-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)	m <sup>2</sup>	56.00	Rs. 1,449.29	Rs. 81,160.24
23	<b>Supply and Fixing of Aluminum door shutters made out of new anodised aluminum box section</b> of size 44.50 x 47.50 x 2.00 mm for verticals, top and middle rails and 101.60 x 44.50 x 2.00 mm for bottom rail inclusive of supply and fixing of all Aluminum fixtures and fittings such as 2 Nos. handles; 1 No of tower bolt 12 mm dia 200 mm long; 1 No of hydraulic door closure of IS specification; 3 Nos. of 4" long (100 mm) butt hinges; 1 No stopper and suitable locking arrangement etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	36.00	Rs. 3,213.05	Rs. 1,15,669.80
24	<b>Supply and Fixing of 2 mm thick vinyl flooring ("Tusker" make) in required colour and size 300 x 300 mm</b> on the existing floor including necessary adhesives, labour, cost of all materials shifting of furniture from the cabins to outside and re-arranging the same after completion of work as directed by the Engineer-In-Charge. The tile material confirm to IS: 3462.	m <sup>2</sup>	1.00	Rs. 357.81	Rs. 357.81
25	<b>Supply and Fixing of 2 mm thick vinyl flooring ("Tusker" make) roll</b> in required colour and size on the existing floor including necessary adhesives, labour, cost of all materials shifting of furniture from the cabins to outside and re-arranging the same after completion of work as directed by the Engineer-In-Charge. The tile material confirm to IS: 3462.	m <sup>2</sup>	96.00	Rs. 330.26	Rs. 31,704.96
26	<b>Supply and Fixing of 6 mm thick mirror of approved quality ("Modi float / Belgium" make)</b> with 6 mm thick hard board back and best teak wood design beading all-round the mirror including necessary clamps, screws, polishing to beading, cost of all materials and labour etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	0.50	Rs. 1,590.89	Rs. 795.45
27	<b>Supply and Fixing of wooden curbing ducting for the thyrestor test pit of the rotors etc. for carrying out testing of equipment using 8 mm thick commercial ply sheets</b> of approved quality and wooden scantlings (Non teak) of size 50 x 76 mm of length 1.8 m to 2.4 m of approved quality. The ducting ply sheet panels of required shape are prepared with necessary wooden runners all-round ply sheets and cross members at required intervals based on required shape of ducting to suit the equipment to be tested, as directed by the Engineer-In-Charge. The manufactured ply sheet panels are to be assembled after equipment is put on the test bed as directed by the Engineer-In-Charge, using MS nails, screws etc. The contractor shall engage necessary skilled and unskilled labour during the testing period to rectify/modify the ducting already provided to meet the testing requirements during test run. Ducting is to be dismantled after testing is conducted. <b>(Only wooden sheets shall be issued free of cost at BHEL stores)</b>	m <sup>2</sup>	2.00	Rs. 202.56	Rs. 405.12



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
28	<b>Supply and Fixing of Aluminum window grills of size 1.50 m x 1.80 m approx. and 1.20 m x 1.80 m approx.</b> along with Aluminum frame consisting Aluminum 'F' (solid) 0.80 kg / 12 inch supply and fixing of design of 4" aperture Aluminum grill to the above frame work with necessary fixtures. It includes fixing of total frame to the existing brick work, finishing etc., complete all as directed by Engineer-In-Charge. (The material shall be Aluminum alloy as per IS: 6063, thick 7 mm, ultimate tensile strength more than 19 kg/mm <sup>2</sup> )	m <sup>2</sup>	12.00	Rs. 1,695.48	Rs. 20,345.76
29	<b>Supply and Fixing Aluminum work for doors, windows, ventilators and partitions</b> with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS: 733 and IS :1285, Fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions , at top, bottom and sides with required EPDM rubber/ neoprene gasket, etc.; Aluminum sections shall be smooth , rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing/paneling, CP bar /stainless steel screws all complete as per architectural drawings and the directions of Engineer-In-Charge. (Glazing and Paneling to be paid for separately). - Anodised Aluminum (Anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) - For Sliding Windows of required size.	kg	96.00	Rs. 382.98	Rs. 36,766.08
30	<b>Supply and Fixing of Roller blinds including channels, fabric etc.</b> , complete and the basic cost of the blinds shall be in the range of Rs. 125/- per SFt. The colour and design of the blinds will be selected by department within the above specified cost etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	8.00	Rs. 1,651.42	Rs. 13,211.36
31	<b>Supply and Fixing of vertical blinds 100 mm in required colour along with channels, fabric bottom weights etc., complete.</b> The basic cost of the blinds shall be in the range of Rs. 70/- per SFt. The colour and design of the blinds will be selected by department within the specified cost. The agency shall procure the same etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	72.00	Rs. 880.75	Rs. 63,414.00
32	<b>Supply and Fixing of RAJSHRI or equivalent make single side prelam solid panel PVC door frame (choukat) of size 50 x 47 mm with a wall thickness of 5 mm</b> , made out of extruded 5 mm rigid PVC single side prelam sheet, meter cut at two corners and joined with 2 Nos. of 150 mm long brackets of 1515 mm MS Square tube. The two vertical door profiles are to be reinforced with 19 x19 mm MS square tube of 19 gauge. The door frame shall be fixed to the wall using 65 / 100mm long MS Screws through the frame by using PVC fasteners. A minimum of 4 Nos. of screws to be provided for each vertical member and minimum 2 Nos. for horizontal member etc., complete as per manufacture specification and direction of Engineer-In-Charge.	m	25.00	Rs. 363.42	Rs. 9,085.50



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
33	<b>Supply and Fixing of 30 mm thick "RAJSHRI" or equivalent brand factory make both side prelam solid panel PVC door shutter</b> consisting of frame made out of MS Tubes of 19 gauge thickness and size of 19 mm x 19 mm for stiles, top and bottom rails. MS Frame shall have a coat of steel primers of approved make and manufacture. MS Frame covered with 5 mm thick heat moulded "Rajshri" Prelam PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45o angle on either side forming stiles; and 5 mm thick, 95 mm wide "Rajshri" Prelam PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45o angle on the inner side to form top and bottom rail 115 mm wide "Rajshri" Prelam PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. 10 mm (5mm x 2) thick, 20 mm wide cross PVC sheet shall be provided as gap insert for top and bottom rail. Paneling of 5 mm thick both side Prelam PVC sheet to be fitted in the MS Frame welded / sealed to the stiles & rails with 7 mm(5 mm + 2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive etc. an additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc., complete as per direction of Engineer-In-Charge, manufacture specification and drawing.	m <sup>2</sup>	12.00	Rs. 2,885.96	Rs. 34,631.52
34	<b>Supply and Fixing of hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75 kg/m<sup>2</sup></b> to windows frames etc.; including 62 x 19 mm beading of second class teak wood etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	1.00	Rs. 1,105.04	Rs. 1,105.04
35	<b>Supply and Fixing of Steel work welded in built up sections / Frames work</b> , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc., as required in grating, frames, guard bar, ladder, railings, railings brackets, gates and similar works for MS window grills etc., complete all as directed by Engineer-In-Charge.	kg	1.00	Rs. 83.25	Rs. 83.25
36	<b>Supply and Fixing of 12 mm thick toughened glass glazed single door shutter with door hardwares</b> "Dorma / Ozone" make like floor springs, pivot patch fittings, bottom locks, Stainless Steel 'D' Handles and providing with "3micron" frosted film in required design etc., complete as directed by Engineer-In-Charge. The above door shutter shall be fixed to the Aluminum / wooden / glazed door frames of the cabins. The rate shall include cost of all materials, glass, door hardwares, frosted film, labour charges etc., complete.	m <sup>2</sup>	20.00	Rs. 3,545.98	Rs. 70,919.60
37	<b>Supply and Fixing of Glass Door- patch Floor Lock</b> , Make: Dorma / Ozone.	Set	8.00	Rs. 3,764.68	Rs. 30,117.44



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
38	<b>Supply and Fixing of double action concealed Hydraulic Floor Spring for the glass doors of weight upto 125 kg</b> , for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-In-Charge. <b>Make: Dorma / Ozone</b>	<i>Set</i>	4.00	Rs. 7,515.74	Rs. 30,062.96
39	<b>Supply and Fixing of Top / Bottom patch fitting for the glass doors.</b> Make: Dorma/ozone.	<i>Set</i>	4.00	Rs. 1,847.34	Rs. 7,389.36
40	<b>Supply and Fixing &amp; Installation of lighting fixtures with lamps</b> as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods as required for fixing the fixtures in position as directed by architect / consultant, complete in all respects. Supply & fixing of energy efficient light fitting of Philips FBS 450/236 D6 HF wing -C- LX recess mounted direct, indirect light efficiency.	<i>Nos.</i>	6.00	Rs. 4,644.08	Rs. 27,864.48
41	<b>Supply and Fixing of Philips lamps of PLL 36 W etc.</b> , complete all as directed by Engineer-In-Charge.	<i>Nos.</i>	3.00	Rs. 285.95	Rs. 857.85
42	<b>Dismantling of existing windows along with frames and providing Glazed Windows. Dismantle and remove the existing windows along with frames</b> including chasing brick work/concrete and stacking them as directed by Engineer-In-Charge and <b>Supplying and Fixing of flush window with openable shutters and fixed ventilators</b> with double glazed window system using 1.2 mm thick, galvanised steel with Aliphatic grade polyurethane UV resistant, anti-static stove painted profiles using 150 x 50 mm size for double rebate profile for frames. The profile shall be jointed with butt joint assembly with roofing bolts and fixed to plastered wall openings with expansion sheets. Glazing shall be with 6 mm thick clear float glass, having two glasses with vacuum between glasses, mounting on profiles with high performance double side adhesive tape with silicon painting including the cost of all materials, labour, conveyance, accessories, erection including plastering of dismantled facias into a neat finish with CM 1:4 proportion complete in all respects as a finished item of work. Any minor gaps between frame and brick work shall be sealed with silicon material at both sides to avoid seepage of rain water etc., complete all as directed by Engineer-In-Charge. <b>Make: SHAKTI / NCL SECCOLOR</b>	<i>m<sup>2</sup></i>	5.00	Rs. 4,556.59	Rs. 22,782.95



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SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
43	<b>Supply and Fixing of top fixed, side hung of NCL Seccolor windows &amp; Ventilators</b> of make Shakthi / Ajantha / Finesta, 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.m). 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 Aluminum powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Gasket made of EPDM. Corner brackets made of CRCA 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 1.30 m x 0.9 m and 3.00 m x 2.10 m - Double shutter without guard bars (grills).	m <sup>2</sup>	4.00	Rs. 3,225.68	Rs. 12,902.72
44	<b>Supply and Fixing of double glazed hermetically sealed glazing</b> in Aluminum windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated Aluminum spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-In-Charge complete.	m <sup>2</sup>	5.00	Rs. 3,557.64	Rs. 17,788.20
45	<b>Supply and Fixing / Erection of false ceiling in true horizontal level 600 mm x 600 mm false ceiling system manufactured by M/s. Armstrong World Industries</b> using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15 mm 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 laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600 mm x 600 mm x 15 mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m oK, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS 0 / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with microperforations, back of the tile duly sanded and finished with a coat of protective paint over the formed grid and complete in all respects etc., complete all as directed by Engineer-In-Charge. <b>Make: Armstrong.</b>	m <sup>2</sup>	80.00	Rs. 1,215.01	Rs. 97,200.80
46	<b>Supply and Fixing of NCL seccolor window handles</b> etc., complete all as directed by Engineer-In-Charge.	Nos.	2.00	Rs. 343.15	Rs. 686.30
47	<b>Supply and Fixing of NCL seccolor window hinges</b> etc., complete all as directed by Engineer-In-Charge.	Nos.	24.00	Rs. 514.71	Rs. 12,353.04



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**Name of work:** "Annual Maintenance Contract for Miscellaneous Carpentry works in Factory area & Administrative Building" for FY 2022-23

SNo.	Description of the item	Unit	Quantity	Unit Rate	Amount
48	<b>Supply and Fixing of Fire exit door of SHAKTI make with fire rating of 2 hours</b> and the hardwares of SS ball bearing butt hinges 101 x 89 x 3mm, panic latch Briton 378 E with Mortise lock (ML 100P), half cylinder & SS D-handle 245 mm with rose (Briton 379E) with DDS Box keeper, Mortise dead bolt (ML 1000) width both side key operation cylinder SS D-handle 254 mm long, door closer with standard arm ryobi 8803 without cover and concealed flush bolt of 300 mm, clear fire rated vision glass 6 mm of size 200 mm x 300 mm and fire rated ceramic gasket etc., complete all as directed by Engineer-In-Charge.	m <sup>2</sup>	0.50	Rs. 8,944.82	Rs. 4,472.41
49	<b>Supply and Fixing of Wall paneling with new 12 mm thick particle board one side laminated</b> of approved brand (Eco board) and shade for wall paneling on the wooden frame work (treated with termite and moisture resistant chemical) and also for doors, windows, cupboard sliding shutters, pelmets, boxes etc. with necessary fixtures like brass hinges, door handles and stoppers etc. as directed by Engineer-In-Charge. The rate quoted shall include of cost of all labour, materials such as particle boards, nails, screws, sliding rollers / bearings, fevicol etc. complete. Frame work with second class teak wood scantlings of size 50 x 25 mm as verticals and horizontals, at an interval of 90 mm c/c shall be made for fixing the Eco board. Joints shall be covered with inlay teak design beading and corners shall be covered with corner teak design beadings of suitable sizes. Complete in all respects. <b>Make : Eco board</b>	m <sup>2</sup>	40.00	Rs. 1,720.36	Rs. 68,814.40
50	<b>Supply and Fixing of teak wood name board of required size approx. 0.10 Sqm</b> with approved polish, required clamps / adhesive for glass writing the names of the designatory with designation in Two / three languages with golden letters as directed by Engineer-In-Charge. The rate includes all complete.	Nos.	8.00	Rs. 629.12	Rs. 5,032.96
51	<b>Supply and Fixing of Netlon PVC mesh to windows, ventilators and exhaust fans, including all necessary materials i.e., nails, electro tapes etc</b> complete all directed by Engineer-In-Charge.	m <sup>2</sup>	6.00	Rs. 456.88	Rs. 2,741.28
52	<b>Supply and Fixing of fly proof stainless steel grade 304 wire gauge</b> , to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete with 2nd class teak wood beading 62 x 19 mm.	m <sup>2</sup>	6.00	Rs. 1,648.67	Rs. 9,892.02
53	<b>Supply and Fixing of frosted film of approved make on glasses</b> as per approved pattern / design complete in all respects as per direction of Engineer-In-Charge and as per site conditions. The colour and design will be approved by the competent authority Make-3micron or any approved equivalent make.	m <sup>2</sup>	3.90	Rs. 696.10	Rs. 2,714.79
54	<b>Supply and Fixing of Toughened glass 12 mm thickness</b> complete all directed by Engineer-In-Charge.	m <sup>2</sup>	4.00	Rs. 1,868.50	Rs. 7,474.00
	<b>Total Cost, excluding GST</b>			=	<b>Rs. 11,86,338.64</b>



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Notes:	
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 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	<b>Penalty terms: Refer Clause 2.1.3 of NIT</b> The following Penalties are envisaged in the contract and shall be assessed and recovered independently:  <b>(a) DELAY IN COMPLETION OF WORK:</b> In the event of delay in completion of the awarded work beyond the contractual delivery date, <u>a penalty of 0.5% of the Contract value per week delay or part thereof subject to a maximum of 10% of the Contract value</u> shall be levied and recovered from any of his bills lying with BHEL along with GST, as applicable.  <b>(b) DELAY IN DEPOSITION OF SECURITY DEPOSIT:</b> (i) If the Contractor fails to deposit the required Security Deposit amount within SEVEN calendar days from the date of issue of LoI or by the respective date as mentioned in LoI, whichever is earlier, <u>a penalty of 5% of the Security Deposit amount per week delay or part thereof subject to a maximum of 30% of the Security Deposit amount</u> shall be levied and recovered from any of his bills lying with BHEL 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] by 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.  <b>(c) DELAY IN COMMENCEMENT OF WORK:</b> If the Contractor fails to commence the work within FIFTEEN (15) calendar days from the date of issue of LoI or by the respective date as mentioned in LoI, whichever is earlier, <u>a penalty of 0.5% of the Contract value per week delay or part thereof subject to a maximum of 10% of the Contract value</u> shall be levied and recovered from any of his bills lying with BHEL along with GST, as applicable.  <b>(d) PENALTY ON UNEXECUTED VALUE OF THE CONTRACT:</b> Unless otherwise total value of the contract to be executed is reduced / restricted due to budget constraint or short closed for the reasons not attributable to the Contractor, <u>10% of the unexecuted value of the contract, irrespective of internal deviation (±) of individual items, assessed at the end of contract period or extended contract period shall be levied as penalty</u> and shall be recovered from any of his bills lying BHEL along with GST. This shall be in addition to the penalties levied due to delay in execution of Contract as mentioned above.  <b>(e) USAGE OF AGGREGATES:</b> Coarse and Fine Aggregates shall be conforming to IS 383. However, if Crushed stone sand (also locally called as robo sand / stone dust etc.) conforming to IS 383 is used in masonry / concrete / plastering or any other cement related work(s), <u>amount payable for such item/s to the extent of quantity executed using Crushed stone sand shall be reduced by 20% (TWENTY PERCENT).</u>  <b>(f) Violation of applicable safety, health and environment related norms, a penalty of Rs. 5,000/- (Rupees Five thousand) per occasion shall be imposed.</b>
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.



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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 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.
15	<a href="#">Refer Clause 6.A of NIT for Splitting of Contract.</a>

**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.
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.



**PRICE BID**  
**SCHEDULE - A :: BILL OF QUANTITIES**

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Tender %	% in FIGURES	Percentage in WORDS
EXCESS		
LESS		
At par with BHEL estimate		

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. <b>Bidders are requested to fill only one row.</b> 2) The rates are excluding GST.
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