



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-15/2021-22 Dt: 11.08.2021

PRICE BID

Name of work: RMDS control room at 02 annexe.

S. No	Description	Qty	Unit	Rate in Rs	Amount (Rs)
	PART-A CIVIL WORKS				
1	Providing and fixing in true horizontal level 600 mm x 600 mm false ceiling system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS 0 / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with microperforations, back of the tile duly sanded with a coat of protective paint over the formed grid and complete in all respect ,Boards where light fixtures to be fixed shall be handed over to Department. M/s- Armstrong etc complete all as directed by Engineer-in-charge.	80.00	Sq.m	1,010.21	80,816.80
2	Wall paneling: Supply & fixing with new 12 mm thick particle board one side laminated 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, cup board 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. Make : Eco board	50.00	Sq.m	1,472.10	73,605.00
3	Full height glass partitions for cabins: Providing & fixing of Aluminum frame work using 50 x 50 x 1.2 mm box sections placed at approximately 600 mm c/c horizontally and vertically and forming a grid size of 600 x 600 mm. The frame work is to be adequately anchored in RCC slab for a firm support. Then fixing of 12 mm MDF board on both sides of Aluminum frame work upto the false ceiling level. Providing and fixing of 12 mm Toughened Glass in required size for partitions. The glass partition shall be provided with "3M" frosted film in required design. The joints of the glass partitions shall be flushed perfectly without any gaps and joints shall be filled with silikon compound. If necessary bottom of the glass shall be fixed in PVC sleeve, subsequently fixed into floor. The door opening shall be deducted for payment.	85.00	Sq. m.	4,000.00	3,40,000.00

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4	Supply and fixing of 12 mm thick toughened glass glazed single door shutter with door hardware "Dorma / Ozone" make like floor springs, pivot patch fittings, bottom locks, 'D' Handles and providing with "3M" frosted film in required design etc. complete as directed by Engineer-in-charge. The above door shutter shall be fixed to the aluminium / wooden / glazed door frames of the cabins. The rate shall include cost of all materials, glass, door hardware, frosted film, labour charges etc. complete.	15.00	Sq.m	3,034.25	45,513.75
5	Supply and fixing of 100 mm vertical blinds including imported spare parts and Indian fabric including cost of materials, fixtures and fittings etc., complete as directed by the Engineer-in-charge.	15.00	Sq.m	753.65	11,304.75
6	Supply and fixing of top fixed, side hung of NCL Seccolor windows & Ventilators 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. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Gasket made of E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws.Approximate size of windows 1.30mx0.9m and 3.00mx2.10m -Double shutter without guard bars(grills)... Excise duty/VAT inclusive .Service tax extra as applicable.	10.00	Sq.m	2,760.18	27,601.80
7	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials , labour , curing etc., complete **	10.00	Sq.m	120.44	1,204.40
8	Applying exterior emulsion paint two or more coats of given shade on new surfaces of walls at all heights of the buildings of shop annexes including scraping the old surfaces, cost of all labour and other incidentals (Only exterior emulsion Paint will be supplied by BHEL).	50.00	Sq.M	35.96	1,798.00
9	Dismantling doors, windows and clerestory windows (steel or wood)shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead of area 3 sq. metres and below	8.00	each	101.70	813.60
10	Supply & Installation of in-screed floor raceways (to be run separately for network and telephone cables) consisting following rectangular Aluminium sections including chasing and refilling the trench as per the route shown in the drawing and approved by Engineer in charge at site including clamping & closing the open pipe ends temporarily by suitable end covers against entry of dust or any other foreign material complete in all respects. 96 x 38 mm	15.00	R M	405.14	6,077.10
11	Supply & Installation of in-screed floor raceways (to be run separately for power, cables) consisting following rectangular Aluminium sections including chasing and refilling the trench as per the route shown in the drawing and approved by Engineer in charge at site including clamping & closing the open pipe ends temporarily by suitable end covers against entry of dust or any other foreign material complete in all respects. 56 x 38 mm	15.00	R M	351.56	5,273.40
12	Supply & Installation of floor junction boxes with top cover for above raceways, of size 300mm x 300mm x 50mm / 150x150x50 fabricated out of MS painted sheets with removable screwed stainless steel cover plates on all junction boxes. The covers shall be neatly fixed to give aesthetic look and corner edges of the cover plates shall be rounded edge profile etc complete in all respects.	10.00	Each	513.24	5,132.40

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13	Supplying and laying of vitrified tiles of brighter shades and marble design of Premium Quality (1st quality, double charged) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of approved make, of size 600 x 600mm (+_5mm). The thickness shall be as specified by the manufacturer but not less than 8mm. It includes cost of cutting, champering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. Tiles of required make will be selected by department within the above specified cost. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only.	4.50	Sq.m	1,134.80	5,106.60
14	Supply, installation, testing and commissioning of 2.0 TR/1.80 TR Cassette AC comprising indoor unit, outdoor unit with electronic control panel and remote control pad, DB's, Switches etc complete in all respects. If required, brick pedestals / structural stands shall be provided. The rate includes cost of AC's, all accessories, pedestals, testing & commissioning, labour, transportation, leads and lifts, scaffolding etc complete as directed by Engineer-in-charge. MAKE: LG/VOLTAS/BATLIBOI/CARRIER/BLUE STAR/DAIKIN	2.00	Each	58,938.00	1,17,876.00
	PART-B ELECTRICAL WORKS			TOTAL PART A	₹ 7,22,123.60
1	Shifting, Fixing, testing and commissioning of False ceiling LED light fittings. The job includes supply of 1.5sq.mm copper wire for connection between ceiling rose and TL. LED light fittings free issued by BHEL	17.00	Nos	263.00	4,471.00
2	Supply and fixing of 10A Socket of Anchor ROMA make & color: White. Model no: 21113 along with the following: 1) 10A 1-way switch, Model no: 21011 2) 3 module plate with cover, Model No 288203 3) 3 Module surface plastic box, model no: 20449	36.00	Nos	474.81	17,093.12
3	Supply and fixing of 10A/20A Socket of Anchor ROMA make & color: White. Model no: 30828 along with the following: 1) 20A 1-way switch, Model no: 21066 2) 3 module plate with cover, model no: 288203 3) 3 Module surface plastic box model no: 20449	4.00	Nos	566.11	2,264.44
4	Supply and fixing of SP 1-way switches for the light fittings.Anchor ROMA make & color: White. Model no: 21011	17.00	Nos	89.68	1,524.59
5	Supply and fixing of 25A, 250V box type,4M Power Unit With 25A SP MCB, Metal Enclosure & Top for Air Conditioner. Anchor make, Code No: 98486 for Air Conditioner.	4.00	Nos	1,504.02	6,016.07
6	Supply and fixing of 8 module GI boxes Cat No MB8MH20GGI and cover plates Code no: AP968H for the above switches	4.00	Nos	666.17	2,664.69
7	Supply and execute the concealed / surface PVC/MS Pipe wiring with 1.5 sq. mm 660 / 1100. V. Grad PVC insulated copper wire multi strand of make Finolex / Rediant / fincab/ Havells/ L&T. In PVC pipe of suitable dia (As per IS for wiring points) with 14 G/1.5sq.mm green colour copper wire for earth continuity. Each light / fan point should be connected to three plate ceiling rose code 30090 of Roma modular type of Anchor or North West make / connector suspended duly with conduit / PVC pipe etc. Each circuit should not have more than 7 points 700 watts.	53.00	Pts	952.00	50,456.00

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8	Supply and installation of concealed / surface PVC/MS Pipe wiring with 2.5 sq. mm PVC insulated copper wire multistrand of make Finolex / Rediant / Finecab / Havells / L&T. The wiring point for AC. power socket including 14 G./2.5sq.mm green colour copper wire for earth continuity. Independent circuit for each socket from power MCB distribution board (As per IS for wiring point) Testing and commissioning. The wiring should not be mixed with lighting pipe wiring and it should be run separately in the room / shed at a height of 2 feet from ground level or as per the site engineers instruction.	8.00	Pts	1,410.00	11,280.00
9	Supply and Installation of MCB DB with TPN 415V, 8way (for lighting & Power circuits) consisting of 10 to 32A -- 8 nos MCBs on each phase with double door metallic cover having transparent window, sheet enclosed, dust & vermin proof. Ref No:8GB0408HRC of SIEMENS/HAGER/LEGRAND make along with controlling 4 pole 63A I/C MCB & 2 Nos 32A DP MCB. It is to be concealed in the wall or as per the site engineer's instructions. The job includes labelling / writing the connection chart inside the door with WHITE duco paint as required, double earthing, testing & commissioning.	1.00	Nos	17,072.05	17,072.05
10	Supplying,laying and termination of 1CX6 sq.mm Copper cable from earth pit to MCB DBs for earthing.	50.00	Mts	67.10	3,355.00
11	Supply and Laying of Earth pits for Equipment body earthing with 65mm dia GI pipe Medium (class-B), strictly as per IS: 3043, 3000mm long with holes of 12mm dia at 150mm apart at random & 50x6x260mm MS Earthing plate welded to pipe as per drawing.The work includes supply of material for alternate layers of charcoal(75kgs), salt(150kgs) and making RCC/brick chambers with MS/cast iron cover. Contractor shall dig 300mm depth and 200mm width trench in the soil for laying the earth flat from earth pit electrode to earth mat/equipment.	1.00	Nos	6,923.70	6,923.70
12	Shifting, Laying & Dressing of the following LT cables. The job includes laying of cable on wall and fixing with saddles or suitable clamps. Cables free issued by BHEL.				
	(a). 3.5C X 35 sq.mm Copper PVC FRLS cable	100.00	Mts	16.57	1,657.06
	(b). 4C X 16/10 sq.mm Copper PVC FRLS cable	50.00	Mts	11.29	564.55
13	Termination of the following power cables including supply of cable glands & lugs(Aluminium/Copper).				
	(a). 3.5C X 35 sq.mm Copper PVC FRLS cable	2.00	Nos	223.96	447.92
	(b). 4C X 16/10 sq.mm Copper PVC FRLS cable	4.00	Nos	185.59	742.36
14	Dismantling of Existing light fittings & Ceiling fans along with wiring and switch boards. The job includes removal of existing Wiring from MCBDB wherever possible	15.00	Nos	138.09	2,071.33
15	Supply and installation of 3.7KVA UPS including 4 nos battery (voltage of each battery - 12V) in the UPS room. Make: Microtek/Luminous/APC. Model: JUMBO 3.7KVA Multi Sine Wave UPS (36V) DSC based model with LCD display/equivalent model of other makes	2.00	Nos	26,411.58	52,823.16
				Total part B	₹ 1,81,427.04
	PART C - IT NET WORKING				
1	Supply and installation of 17 U Floor Mount Rack with Fans and Power PDU (Indian type) with Accessories . Make: Netfox/ Netrack/APC /President/Valrack	1.00	Each	20,600.00	20,600.00
2	Supply and installation of 24 LIU Fully Loaded Single Mode LC-LC with LC adapter. (For outdoor Fiber cable termination). This is including splicing(all cores needs to be spliced). Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	2.00	Each	28,000.00	56,000.00
3	Supply and fixing of 2 Meters LC- LC Single Mode Patch Cords Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	2.00	Each	1,600.00	3,200.00
4	Supply and Structured laying of 6 Core Single Mode Armoured Out Side OFC Cable with clamps and fixtures. Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	60.00	Mtrs.	113.34	6,800.16
5	Supply, installation 24 Port fully Loaded Patch Panel. Panel should have label holders and designation labels as a part of standard device. Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	2.00	Each	14,026.66	28,053.33

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6	Supply, installation and dressing of Cat 6A Gigaspeed patch cord 3 Mtrs length for Patch Panel end Connectivity, Both end shall be RJ 45 with snag less boots. Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	30.00	Each	533.34	16,000.08
7	Supply, installation and dressing of Cat 6A Gigaspeed patch cord 1 Mtrs length for Patch Panel end Connectivity, Both end shall be RJ 45 with snag less boots. Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	30.00	Each	466.66	13,999.92
8	Supply and laying of Cat 6A cable with necessary PVC conduit & Accessories for IT and Telephone Each box contains 305 mtrs of UTP Cable. Make: Molex/Systemax/Legrand/Panduit	900.00	Mtrs.	113.34	1,02,002.40
9	Supply, installation and fixing of CAT 6A Giga speed Information outlets Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	30.00	Each	600.00	18,000.00
10	Supply, installation and fixing Surface box & dual face plate for above information outlets Make: Commscope/Amp/Molex/Systemax/Legrand/ Panduit	15.00	Each	226.67	3,400.08
11	2U Cable Manager	1.00	Each	740.00	740.00
				Total part C	₹ 2,68,795.97
	Total of Part (A+B+C)				₹ 11,72,346.60
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 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.				
4	Penalty terms: a) In the event of delay in supply of goods and or services beyond contractual delivery date, penalty of 0.5% per week or part there of 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) If the contractor fails to deposit the required security deposit or commence the work within the period as per LOI/Contract. The EMD will be forfeited. c) If the agency fails to commence the work as requested by the department penalty of 0.5% on the gross value of work for weeks delay will be applicable. Penalty amount so determined along with GST if applicable thereon shall be recovered.				
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.				
8	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.				
9	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW= ₹ 550.38, SSW= ₹ 587.73, SW = ₹ 623.54 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.				
10	The agency has to bring police clearance certificate for the work force.				
11	All the terms and conditions of the contract with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).				
12	Payment shall be made stage wise on approval from engineer in charge				
13	Vendor shall raise GST invoice on BHEL Hyd GSTIN.				
14	If BHEL is unable to avail the input tax credit, the same amount shall be recovered from the vendor bills.				
15	Use of stone dust is not permitted in any civil works.				
	GST CLAUSES				
	Following points to be complied with :				
16	In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.				

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

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

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