

[Validate](#)[Print](#)[Help](#)[Item Rate BoQ](#)Tender Inviting Authority: **Dean (Admin)**Name of Work: **Repairing and Renovation of chiller central air- conditioning plant at Institute for Plasma Research Campus, Bhat, Gandhinagar. (IPR)-382428**Contract No: **IPR/TN/CIVIL/06/2022**

Name of the Bidder/ Bidding Firm / Company :	
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**PRICE SCHEDULE****(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)**

**(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )**

**"Note:-**

- 1. For detailed Specification, Contractor has to refer and follow Specifications Volume-I and Volume-II, 2019, CPWD (Central public works department) available on online CPWD portal ([https://cpwd.gov.in/Documents/cpwd\\_publication.aspx](https://cpwd.gov.in/Documents/cpwd_publication.aspx)) including material, workmanship, equipment's, IS code etc.**
- 2. All the items are including scaffolding, curing, for all leads and lifts etc.**
- 3. In case of non-availability of detailed specification in CPWD 2019, Specification of the same shall be executed as per clauses mentioned in GCC and / or as directed by Engineer-In-Charge, whose decision shall be final. No extra shall be payable for execution of items as mentioned in Schedule of Quantities as a result of adopting detailed specification or India Standard of relevant or Other Standards thereon.**
- 4. All respective items should be as per the approved make / brands / list attached in Tender document"**

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	RATE In Figures To be entered by the Bidder in Rs. P including GST & all taxes	TOTAL AMOUNT Including GST & all Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	7	14	15
1	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. Note:- Removing of emulsion paint, white wash, oil paint or enamel paint for Internal wall, exterior paint on external wall (including washing), wood work, steel work etc. by sand paper, wire brush, roll paper etc. to receive new painting treatments. Rates includes scaffolding. Measurements will be done as per relevant IS Code. Complete all as directed by EIC.	item1	1200.00	Sqm		<b>0.00</b>	INR Zero Only

2	<p>Providing and applying white cement based putty two or more coat to achieve required finish on wall, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.</p> <p>Note:-for internal walls only, Rates includes scaffolding and sand papering of wall after putty. The thickness of putty should be 0.50 mm or more. Measurements will be done as per relevant IS Code</p>	item2	1200.00	Sqm		0.00	INR Zero Only
3	<p>Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer</p> <p>Note:- For Internal wall only, rates includes scaffolding. Measurements will be done as per relevant IS Code. Complete all as directed by EIC</p>	item3	1200.00	Sqm		0.00	INR Zero Only
4	<p>Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour In TWO coat.</p> <p>Note:- Rates includes scaffolding, crack opening and filling with approved filler material (filling cracks - SBR polymer with cement as per manufacturers specification). Measurements will be done as per relevant IS Code. Complete all as directed by EIC</p>	item4	1200.00	Sqm		0.00	INR Zero Only
5	<p>Providing and Applying two coats of Synthetic enamel paint on old doors and windows, MS members using 1st quality paint from approved manufacturer of approved colour and shade to give an even shade including scaffolding, removing of paint that is soft, blistered, loose or flanking &amp; cleaning old surface, preparing the surface to receive paint including filling cracks and creaves with Putty or other approved filler materials, applying oil primer coats / anti corrosive zinc based yellow primer to steel work. cost also includes thinner, filler, putty, primer and other materials, necessary labours etc. complete as directed by Engineer in charge at all heights, in all floors.</p> <p>Note:- Measurements of doors and windows will be taken as per relevant IS code.</p> <p>(1) Synthitic enamel Paint of approved brand confirming to IS 2932 (2) Zinc based yellow Primer (3) Putty suitable to Mild steel members of approved brand (4) Putty on wood work - oil base putty</p>	item5	42.00	Sqm		0.00	INR Zero Only
6	<p>Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :</p> <p>Two or more coats on new work</p> <p>Note : Measurement will be taken in Sqm of the treated/painted surface area of individual members</p>	item6	45.00	Sqm		0.00	INR Zero Only

7	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. With cement mortar 1:4 (1 cement : 4 fine sand) Note- work to be carried out at any height and lead inside institute including scaffolding, curing etc	item7	7.00	Sqm		0.00	INR Zero Only
8	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 250 metres lead : Of area 3 sq. metres and below	item8	4.00	Each		0.00	INR Zero Only
9	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : NOTE: All fitting works shall be carried out as per I.S specifications including necessary rivets, screws, lugs, scaffolding, etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings. The cost also included for sliding arrangements including locking arrangements of sliding window For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	item9	25.00	Kg		0.00	INR Zero Only

10	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc.</p> <p>Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :</p> <p>NOTE: All fitting works shall be carried out as per I.S specifications including necessary rivets, screws, lugs, scaffolding, etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings. The cost also included for sliding arrangements including locking arrangements of sliding window For frame work (Styles and rails) for Doors shutters / window shutters with required sections including providing all items and hinged / pivoted arrangements for operation of shutters and cost for fixing of sliding arrangements etc., complete. (Aluminium beadings and glazing clips measured under this item only).</p>	item10	38.00	Kg		0.00	INR Zero Only
11	<p>Providing and fixing Glass panes of selected glazing quality and thickness as specified below including providing and fixing EPDM rubber / neoprene gasket of approved quality and fixing with Aluminium glazing clips / Aluminium beadings (Supply cost of Aluminium clips / Aluminium beadings are measured in separate items mentioned above for DOORS / WINDOWS / PARTITIONS etc., Using 5mm thick plain glass (weight not less than 12.50 kg/sqm)</p>	item11	9.00	Sqm		0.00	INR Zero Only
12	<p>Providing and fixing silicon sealant at the joint of aluminum and plaster of size 5 mm x 5 mm in triangle shape to make the surface water leakage proof at periphery of window from inside and outside both etc., as directed by EIC.</p>	item12	20.00	Rmt		0.00	INR Zero Only
13	<p>Supplying and fixing heavy quality fixtures and fittings for doors, windows, ventilators with necessary ss screws, nails, machine pins etc. at all floor levels complete, as directed and approved by Engineer-in-charge. The fixture &amp; fastenings shall be provided as under :</p> <p>Providing and fixing hinges of Stainless steel of size 100mm*58mm*1.9mm including bolt, SS screw and other necessary connections and as directed by EIC.</p>	item13	4.00	No		0.00	INR Zero Only
14	<p>.-Do as per Item No. - 13</p> <p>Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm</p>	item14	1.00	No		0.00	INR Zero Only

15	.-Do as per Item No. - 13 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	item15	2.00	No		0.00	INR Zero Only
16	.-Do as per Item No. - 13 Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	item16	1.00	No		0.00	INR Zero Only
17	.-Do as per Item No. - 13 Supplying and fixing Chromium plated Brass lock 4 levers 100mm of approved quality aluminum door lock with two keys, suitable either to single or double leaf shutters including making necessary recess in aluminum frame and fixing the lock with CP. Brass steel screws, etc.; complete as directed by Engineer-in-charge.	item17	1.00	No		0.00	INR Zero Only
18	Demolishing R.C.C. work manually/ by mechanical means including disposing of the debris outside campus, stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	item18	10.00	Cum		0.00	INR Zero Only
19	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	item19	30.00	Sqm		0.00	INR Zero Only
20	Dismantling cement asbestos or other hard board ceiling or partition walls including disposing of the debris outside campus, stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	item20	5.00	Sqm		0.00	INR Zero Only

21	<p>Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance <math>\geq</math> 85%, Thermal Conductivity <math>k = 0.052 - 0.057</math> w/m K, Fire Performance as per (BS 476 pt - 6 &amp; 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'.</p> <p>The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre &amp; 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.</p> <p>With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)</p>	item21	12.00	Sqm		0.00	INR Zero Only
22	<p>Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :</p> <p>1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)</p>	item22	2.00	Cum		0.00	INR Zero Only
23	<p>Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :</p> <p>1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)</p>	item23	7.50	Cum		0.00	INR Zero Only
24	<p>Centering and shuttering including strutting, propping etc. and removal of form work for :</p> <p>Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.</p> <p>Note- Shuttering for water drain inside existing building</p>	item24	35.00	Sqm		0.00	INR Zero Only
25	<p>Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.</p>	item25	380.00	Kg		0.00	INR Zero Only

26	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	item26	1150.00	Kg		0.00	INR Zero Only
27	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes Note- for Hollow box section	item27	100.00	Kg		0.00	INR Zero Only
28	Structural steel work for base plates, gussets plates, stiffeners, connecting plates etc including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	item28	20.00	Kg		0.00	INR Zero Only
29	P/F 50 MM PUF insulated Panel with flat Ribbed sheet at top and bottom side 0.45 mm TCT color Coated GI Sheet with PUF as Insulation Sandwich Panel in between including closing of all the ends of PUF using appropriate GI sheet of required size and shape, the panel should be manufactured by pressure injection of CFC free Polyurethane foam at 38 + 2 Kg/m3 density, in between the outer and inner steel sheet surfaces and should be supplied in single length up to 6.00 meter or as desired by Engineer in charge. The sheet shall be fixed using self-drilling/self-tapping screws of size (5.5 x required length) with EPDM seal, silicon sealant at joints complete up to any pitch in horizontal/vertical or curved surfaces excluding the cost of purlins, rafters and trussed and including cutting to size and shape wherever required including all materials labour, scaffolding, wastage, tools, tackles, equipment, transportation all complete as directed by engineer-in-charge. All overlaps shall be sealed with silicon sealants. Roof should be water tight. The PPGI Sheets shall be of minimum 240 MPA Steel grade & shall have a Zinc Coating of minimum 120 GSM as per IS 277/1992, 5-7 Microns of epoxy primer on both sides of the Sheet & Polyester top Coat of 18-20 microns on one side/outer side. The PPGI Sheets/PUF Panels shall have a protective guard film of minimum 20-25 microns to avoid scratches to finished panel during transportation.	item29	12.00	Sqm		0.00	INR Zero Only
30	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	item30	12.00	Sqm		0.00	INR Zero Only

31	Providing and fixing of full threaded Anchor fastner - M10 x 100 with Epoxy resin anchor grout (chemical) including drilling in R.C.C. etc., for all height and levels etc., complete as instructed and directed by Engineer-in-charge. The Payment shall be made on the actual quantity of bolts fixed at the site.	item31	20.00	No.		0.00	INR Zero Only
32	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture Inside aluminum sliding window shutter using suitable aluminum section (alunimu section shall be paid under revelant ite)	item32	4.00	Sqm		0.00	INR Zero Only
33	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m All kinds of soil.	item33	2.00	Cum		0.00	INR Zero Only
<b>Total in Figures</b>						<b>0.00</b>	INR Zero Only
<b>Quoted Rate in Words</b>	<b>INR Zero Only</b>						