

इंजीनियरिंग प्रोजेक्ट्स (इंडिया) लिमिटेड

(भारत सरकार का उद्यम)

पी०सी०ओ० भुवनेश्वर, ओड़ीशा

PCO/BBSR/806/159

Dtd. 12.03.2024

Sub: "Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha"

Ref: NIT NO. PCO/BBSR/806/159 Dt. 29.02.2024

Retender Corrigendum

1. Bidder should note the following –

Price Bid of the above said tender attached as Annexure I

2. All other Terms & conditions remain unchanged.

ENGINEERING PROJECTS (INDIA) LIMITED

PCO, Bhubaneswar - Odisha

Item Wise BoQ

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

Contract No: PCO/BBSR/806/159 Dt.29.02.2024

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<div>PRICE SCHEDULE</div> <div>(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)</div> <div>(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)</div>									
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE (including Transportation Insurance, F.O.R.) In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words	
1	2	4	5	12	7	13	14	15	
1	Plastering Providing & finishing with 20 mm cement plaster of mix with 1:6 (1 cement: 6 coarse sand)	500.00	Sqm	INR		0.00	0.00	INR Zero Only	
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from naturalsources : 4 graded stone aggregate 20 mm nominal sizederived from natural sources)	100.00	cum	INR		0.00	0.00	INR Zero Only	
3	WATER PROOFING WORK Waterproofing work on basement roof non tower area with landscaping above and green terrace for Command Control Centre Building as per detail scope of work & technical specification furnished below with SIKKA/PIDILITE water proofing compound. Prior to take up the work agency have to submit method statement & TDS of all the material to be used for this work for taking up approval from appropriate authority. Work has to be completed in all respect along with supply all the all material, tools , tackles , manpower, machineries & necessary civil works etc. and as per the direction of EIC. As per approved method statement agency has to prepare mock up sample to get approval from Client. Basement roof non tower area with landscaping above and green terraces: •Waterproofing membrane, geotextile and protection screed: • Providing and applying a Fully Bonded Liquid applied Hybrid Polyurea Polyurethane Waterproofing Membrane of total 1.50 mm thick system DFT having anti-root properties, to be applied in M 2 coats, over one coat of a solvent free two component epoxy primer. No sand broadcast layer is permitted in the system. The system must be such that it is thixotropic, can be applied by airless spray, as well as the same product shall be capable of being applied manually for detailing and patch repairs. The system must not be instant setting and shall have a min pot life of 15 mins to facilitate WFT measurement at every 10 to 15 Sqm during application to check thickness and thereby not require destructive testing for thickness measurement. The Product shall be applied in accordance with the manufacturer's guidelines. Systems that contain Bitumen and/or those that are hot applied, or involve heating, shall not be permitted to be used. •The waterproofing membrane shall have following minimum properties: 1)Solid contents by volume: 100% 2)Tensile strength > 10 Mpa as per ASTM D 412 3)% Elongation > 900% as per ASTM D 412 4)Bond strength on concrete >2.0 Mpa as per ASTM D 723 5)Crack bridging capability of Over 3 mm. 6)Resist hydrostatic pressure of over 60m head of water as per ASTM D5385; 7)Specific Gravity of 1.15 (=/- 10%) The Waterproofing system shall be suitably protected prior to backfilling with a Protection layer of Min 300 GSM non-woven Polypropylene Geotextile, to be loosely laid with min 75 mm overlaps, over the waterproofing membrane for the horizontal surfaces. Horizontal surfaces shall be covered with a protection and slope making screed of Min. M20 Grade Concrete of Avg 100 mm thick with min 50mm at the outlet and laid to a slope of 1:120 well compacted, including curing etc. complete.Verticals shall be protected with an epoxy bond coat, followed by quartz sand broadcast and followed by Protective plaster of Avg. 12mm thick in C.M(1:4). •Drain filter/board - extra for landscaping areas only: • Supply and installation of Rolled Matrix Soil Filter cum surface drainage System as per manufacturers' specifications consist of dimple raised, molded polypropylene sheet bonded to a big strength polypropylene geotextile fabric. This geotextile fabric composite allows passage of moisture through fabric while preventing fine soil from entering to drainage channel and has a compressive strength of 600 Kg/Sq.Mt. and thickness of 11mm.	400.00	SQM	INR		0.00	0.00	INR Zero Only	
4	Water Proofing on Sunken area for Command Control Centre Building as per detail scope of work & technical specification furnished below with SIKKA/PIDILITE water proofing compound. Prior to take up the work agency have to submit method statement & TDS of all the material to be used for this work for taking up approval from appropriate authority. Work has to be completed in all respect along with supply all the all material, tools , tackles , manpower, machineries & necessary civil works etc. and as per the direction of EIC. As per approved method statement agency has to prepare mock up sample to get approval from Client. Sunken Area Water Proofing: • Surface Preparation: Surface to be free from frost, surface laitance and contamination free from loose aggregate or other sharp protrusions with fairly smooth finish for application of waterpro coating prime the surface with water. • Bore Packing: Preparing the inside surface of core and PVC by roughening using suitable file to get better adhesion prior to packing works. Cleaning the surface by wire brushing followed wat jet to remove any laitance or loose flaky particles. Providing necessary formwork for packing the bore using suitable arrangement (depending upon site conditions). Applying a coat of styrene-butadiene based polymer coating using any approved brand to enhance adhesion between the packing material and other surfaces and Application of Bath seal Tape at the middle of over the pipe external side and packing the gap using non-shrink cement polymer based using Micro concrete up to the surface of the bore whilst the polymer is in tacky state. •Coving: Coving at the junction of slab and vertical offsets with CM 1:3 mixed with approved bonding material at the dosage of 6 KG/bag of cement under. • Treating the Cracks, Construction Joints: Chase opening the Construction Joints by providing "U" groove, removing the dust and clean the designated area fill the prepared surface using Mic concrete completely as per the manufacturer's Instruction, following by providing chemical injection treatment in the form of pressure grouting to the cold joint by injecting cement slurry mixed with grout admixture @ 225 gms per bag of cement, in the required consistency through the pre fixed PVC • nozzles in the 18 mm dia holes, fixing of PVC nozzles with instant plug and final cutting the projected nozzles and sealing off the PVC nozzles after the injection operation is over with Cemes Mortar 1:3 admix with the bonding agent, non-shrink rapid setting mortar compound, finishing, curing etc. as per manufacturers specification and as directed. • System: Supply & application of acrylic polymer modified elastomeric waterproofing membrane coating. Mix the liquid, powder & water as per the approve manufacturer specification to obtain 1mm thick coating in 2 coats. • Properties: Pot life: 30 min. at 270C, Mixed Density: 1.85-1.95 g/cc, Application temperature: Not less than 10°C, Toxicity: Non-toxic, Adhesion to concrete: >1N/mm2, resist positive hydrosta pressure up to 7-meter head.	60.00	SQM	INR		0.00	0.00	INR Zero Only	

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5	Water Proofing treatment in underground water tank for Command Control Centre Building as per detail scope of work & technical specification furnished below with SIKAPIDILITE water proofing compound. Prior to take up the work agency have to submit method statement & TDS of all the material to be used for this work for taking up approval from appropriate authority. Work has to be completed in all respect along with supply all the all material, tools , tackles , manpower, machineries & necessary civil works etc. and as per the direction of EIC. As per approved method statement agency has to prepare mock up sample to get approval from Client. • Construction/Starter joint Treatment: Providing and applying water swellable-basic polymer-hydrophilic water stoppers at all construction joints, water stoppers shall have unrestrain volumetric expansion up to 300%, Shore A hardness of 40 to 50, Hydrostatic pressure resistance of 100 meters. Water stoppers may be fixed to the concrete using any approved Adhesive and Complete as per the manufacturer's specification. • Bore Packing: Preparing the inside surface of core and PVC by roughening using suitable file to get better adhesion prior to packing works. Cleaning the surface by wire brushing followed wat jet to remove any laitance or loose flaky particles. Providing necessary formwork for packing the bore using suitable arrangement (depending upon site conditions). Applying a coat of styrene-butadiene based polymer coating using any approved brand to enhance adhesion between the packing material and other surfaces and Application of Bath seal Tape at the middle of over the pipe external side and packing the gap using non-shrink cement polymer based using Micro concrete up to the surface of the bore whilst the polymer is in tacky state. • Treating the Cracks, Construction Joints : Chase opening the Construction Joints by providing " U " groove, removing the dust and clean the designated area fill the prepared surface using Mic concrete completely as per the manufacturer's Instruction, following by providing chemical injection treatment in the form of pressure grouting to the cold joint by injecting cement slurry mixed with grout admixture @ 225 gms per bag of cement, in the required consistency through the pre fixed PVC nozzles in the 18 mm dia holes, fixing of PVC nozzles with instant plug and final cutting the projected nozzles and sealing off the PVC nozzles after the injection operation is over with Cement Mortar 1:3 admix with the bonding agent, non-shrink rapid setting mortar compound, finishing, curing etc. as per manufacturers specification and as directed. •Coving: Coving at the junction of slab and vertical offsets with CM 1:3 mixed with approved bonding agent at the dosage of 5Litre/bag of cement under. • Surface Preparation: Surface to be free from frost, surface laitance and contamination free from loose aggregate or other sharp protrusions with fairly smooth finish for application of waterpro coating prime the surface with water. • Applying 2 coats of approved bonding adhesive (a two component, pre packed, polymer modified cementitious coating) @ 1.9kg/sq.mtr all over the slab including the angular fillets at extendable over the vertical walls having Mixed density 1950 kg/m3 Resistance to positive water pressure (DIN 1048) Pt 5 - 5 bar, Resistance to negative water pressure (ITM / FTM-181) 3 bar, Static crack accommodation 0.9 mm, Abrasion resistance (ASTM D4060)- Wear Index (equivalent to 40 N concrete.) CO diffusion resistance> 50 m, Pot life at 20°C- 2hrs, WARS certified food grade coating. • Water proofing membrane: Providing and applying one coat of solvent free epoxy/PU primer @ 0.2 Kg/ sqmt, followed by 2 coats of liquid thixotropic, applied waterproof and protecti nontoxic lining system using a two component, 100% solids, aromatic Polyethene elastic coating possessing non-toxic, potable water contact capability properties of total 1.5 mm thick at consumption of 1.8kg/sqm. The membrane possesses tensile strength of 8Mpa, Shore A Hardness >90, Shore D Hardness >50; Elongation property >100%, Concrete Adherence of >1.5Mpa at 23 deg. C. with Euro Class F as fire reaction, solid content 100% as per ISO 527-3 properties. The entire system for supply of material and installation of system will be done by the inhouse/subsidiary company of the manufacturer with a comprehensive warranty for 10 years for both supply and installation of the waterproofing system. The turnkey specialist waterproofing subcontractor shall be an ISO 9001 certified and CIDC accredited company having a successful track record in executing water proofing works for a minimum of 10 years. Providing and fixing list quality ceramic glazed wall tiles conforming toIS: 15622 (thickness to be specified by the manufacturer), of approvedmake, in all colours, shades except burgundy, bottle green, black ofany size as approved by Engineer-in-Charge, in skirting, risers of stepsand dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm,including pointing in white cement mixed with pigment of matching shadecomplete.	400.00	SQM	INR		0.00	0.00	INR Zero Only	
7	Polishing of Kota stone complete to provide smooth finish as per the direction of EIC complete.	330.00	SQM	INR		0.00	0.00	INR Zero Only	
8	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	90.00	SQM	INR		0.00	0.00	INR Zero Only	
9	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. _Granite stone slab colour black, Cherry/Ruby red- Area of slab over 0.50 sqm	120.00	SQM	INR		0.00	0.00	INR Zero Only	
10	Providing & laying carpet flooring with approved sample material and approved pattern. Rate inclusive Material sample approval & onward patter approval from client. Required levelling course to be laid for providing smooth finishing as per the direction of EIC complete.	300.00	SQM	INR		0.00	0.00	INR Zero Only	
11	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :	550.00	SQM	INR		0.00	0.00	INR Zero Only	

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12	<p>Fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>	1000.00	SQM	INR		0.00	0.00	INR Zero Only
13	<p>Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main "T" at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centproof coating prime the surface with water.</p> <p>• Bore Packing: Preparing the inside surface of core and PVC by roughening using suitable file to get better adhesion prior to packing works. Cleaning the surface by wire brushing followed wat jet to remove any laitance or loose flaky particles. Providing necessary formwork for packing the bore using suitable arrangement (depending upon site conditions). Applying a coat of styrene-butadiene based polymer coating using any approved brand to enhance adhesion between the packing material and other surfaces and Application of Bath seal Tape at the middle of over the pipe external side and packing the gap using non-shrink cement polymer based using Micro concrete up to the surface of the bore whilst the polymer is in tacky st</p>	320.00	SQM	INR		0.00	0.00	INR Zero Only
14	<p>Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :</p> <p>GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.</p>	300.00	SQM	INR		0.00	0.00	INR Zero Only
15	<p>CUBICAL PARTITION BOARD FOR TOILET FMRSCUBZMSZZS00001 (HSN CODE: 48239019) BESCO CUBICLE ZMS SS Thickness of Compact Laminat : 12 mm Colour of HPL Boards: Single Standard Compact Colour Size of Cubicle : As per Drawing (W) X 1550mm (D) X 1933mm (H) Door Size : 1750mm (H) x 600mm (W) Divider Size : 1775mm (H) Overall Height Of Cubicle : 1933mm (Including bottom Gap of 80mm) Accessories: Standard - Merino Make Aluminum, Stainless Steel - 304 Grade accessories) a) Aluminum "U" Channel b) Aluminum "F" Channel (Only Corner Unit) c) Aluminum Door Stopper Channel d) Aluminum Top Rail e) SS Coat Hook f) SS Privacy Thumb turn c/w Occupancy Indicator g) SS Door Knob h) SS Spring Loaded Butt Hinges with Cover i) SS Adjustable Foot 316 Grade j) Rubber Door Stopper Lining k) S.S.Screws 304 G & P.V.C Wall Plugs SPECIAL NOTE - Warpage Criteria is 3.0 mm/1000mm for MRS panels as per EN standard- 438 Work is including providibg, fixing, carrying, loading & unloading material inclusive of all tools, tackels etc. complete</p>	10.00	No	INR		0.00	0.00	INR Zero Only
16	<p>WPC JALI FIXING Fixing WPC jali at any height with necessary aluminium angle & square hollow section along with other fixing accessories as per drawing including all tools/tackels complete.</p>	350.00	SQM	INR		0.00	0.00	INR Zero Only
17	<p>Providing & Fixing WPC jali at any height with necessary aluminium angle & square hollow section along with other fixing accessories as per drawing including all tools/tackels complete.</p>	350.00	SQM	INR		0.00	0.00	INR Zero Only

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18	PAINTING WORK Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	5500.00	SQM	INR		0.00	0.00	INR Zero Only	
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	2250.00	SQM	INR		0.00	0.00	INR Zero Only	
20	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqmover and including priming coat of exterior primer applied@ 2.20 kg/10 sqm)	1300.00	SQM	INR		0.00	0.00	INR Zero Only	
21	White washing with lime to give an even shade : New work (three or more coats)	1500.00	SQM	INR		0.00	0.00	INR Zero Only	
22	STRUCTURAL GLAZING WORK Frameless Glass Door with 12mm thick toughened clear glass shutters, anchor fastener, BR soft nose seal, modular design, including internal cover etc. and as per technical specification complete as per the instruction of EIC.	20.00	SQM	INR		0.00	0.00	INR Zero Only	
23	Providing & fixing Aluminium Louvers at External face . The scope include preparation & submission of fabrication drawing to Client for taking approval prior to start execution.	30.00	SQM	INR		0.00	0.00	INR Zero Only	
24	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/clerestory windows &desertory other Frames/Chowkhat comprising of virgin PVCpolymer of K value 58-60 (Suspension Grade), calciumcarbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12for 100 gms) fabricated with miter joints after applying PVCsolvent cement and screwed with full body threaded starheaded SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N(Edge), minimum compressive strength of 58 N/mm2, modulusof elasticity 900 N/mm2 and resistance to spread of flame ofClass A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in positionwith M.S hold fast/lugs/SS dash fasteners of required dia andlength complete as per direction of Engineer In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions I.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made. Frame size 65 x 125 mm	45.00	metre	INR		0.00	0.00	INR Zero Only	
25	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) - 30 mm thick	15.00	sqm	INR		0.00	0.00	INR Zero Only	
26	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hingeswith necessary screws sqm	10.00	sqm	INR		0.00	0.00	INR Zero Only	
27	Providing & fixing Aluminium louvers (300X300) at toilet door including all tools tackles etc.	15.00	EACH	INR		0.00	0.00	INR Zero Only	
28	Providing and fixing stainless steel (Grade 304) railing made of Hollowtubes, channels, plates etc., including welding, grinding, buffing, polishingand making curvature (wherever required) and fitting the same withnecessary stainless steel nuts and bolts complete, i/c fixing the railingwith necessary accessories & stainless steel dash fasteners , stainlesssteel bolts etc., of required size, on the top of the floor or the side ofwaist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel membersshall be considered).	1800.00	KG	INR		0.00	0.00	INR Zero Only	
29	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operation. (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits.C66:- (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. iii) Chlorination of RCC internal surface by liquid chlorine. iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. Finally the surface shall be treated with ultraviolet radiation etc.as per direction of Engineer-in-Charge. sqm 71.30	500.00	sqm	INR		0.00	0.00	INR Zero Only	
30	Removal of scaffolding upto (G+S) level of the building & stacking of scaffolding material at site within a initial lead of 100mtr including all manpower, tools & tackles as required maining proper safety arrangement & as per the instruction of Engineer-In-Charge (The elevational area of the scaffolding shall be measuredfor payment purpose)	3900.00	SQM	INR		0.00	0.00	INR Zero Only	
31	Dismantling concrete /morter rubbis by breaker or manually and Cleaning debris, rubbish & dispose the material as per the instruction of Engineer-In-Charge including all manpower, tools & tackles etc. complete.	4442.00	sqm	INR		0.00	0.00	INR Zero Only	
32	B) Sanitary & Plumbing work Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal dia Pipes	35.00	MTR	INR		0.00	0.00	INR Zero Only	
33	25 mm nominal dia Pipes	35.00	MTR	INR		0.00	0.00	INR Zero Only	
34	32 mm nominal dia Pipes	35.00	MTR	INR		0.00	0.00	INR Zero Only	

Item Wise BoQ

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

Contract No: PCO/BBSR/806/159 Dt.29.02.2024

Name of the Bidder/ Bidding Firm / Company :								
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)								
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE (including Transportation Insurance, F.O.R.) In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	12	7	13	14	15
35	40 mm nominal dia Pipes	30.00	MTR	INR		0.00	0.00	INR Zero Only
36	50 mm nominal dia Pipes	25.00	MTR	INR		0.00	0.00	INR Zero Only
37	65 mm nominal dia Pipes	25.00	MTR	INR		0.00	0.00	INR Zero Only
38	80 mm nominal dia Pipes	30.00	MTR	INR		0.00	0.00	INR Zero Only
39	Providing and fixing of following dia UPVC pipes including with all fittings like bend, Tee, elbow, offsets etc. and the same fixed on wall or floor with holder bat clamps screw in all floors as per specification & testing the joints with required water presure. as per specification and direction of Engineer-in-charge. 110 mm	290.00	MTR	INR		0.00	0.00	INR Zero Only
40	Supply & fixing Wash Basin (480X480X200mm) model No. Flair C0464 along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	39.00	EACH	INR		0.00	0.00	INR Zero Only
41	Supply & fixing wall hung Wash Basin (580X480X400) for Handicapped Toilet Hindware make model No. KYLS 91053 along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
42	Supply & fixing Basin Mixer Jaquar make model No. FLR-15001BPM along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
43	Supply & fixing Sink cock with Mixer Jaquar make & model No. FLR-5309N along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	37.00	EACH	INR		0.00	0.00	INR Zero Only
44	Supply & fixing Waste coupling 100 mm size ALD-705 for basin along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	44.00	EACH	INR		0.00	0.00	INR Zero Only
45	Supply & fixing Bottle Trap Jaquar make & model no. ALD-769 L 250X190 mm along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	44.00	EACH	INR		0.00	0.00	INR Zero Only
46	Supply & fixing waste pipe for basin along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	44.00	EACH	INR		0.00	0.00	INR Zero Only
47	Supply & fixing EWC Commode (520X370X360) Hindware make model no. Elegance Neo 20109 along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	42.00	EACH	INR		0.00	0.00	INR Zero Only
48	Supply & fixing Flush Valve dual flow 32mm size (concealed body) shut off provision & rectangular dual flush plate ABS chrome plated (3.00 /6.00 LTS per flush) model no. FLV1085DFP along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	42.00	EACH	INR		0.00	0.00	INR Zero Only
49	Supply & fixing Hindware make Urinal Commode (300X330X450) model No.Corto 60023 (Top inlet) along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	15.00	EACH	INR		0.00	0.00	INR Zero Only
50	Supply & fixing Toilet paper Holder model no. ACN-11535 & ALD-8058 long braided hose 450mm along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	37.00	EACH	INR		0.00	0.00	INR Zero Only
51	Supply & fixing Geyser Elena Vertical (25 ltr)Jaquar make along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
52	Supply & fixing Soap Dispensers jaquar make & model no. ACN-1137N along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	23.00	EACH	INR		0.00	0.00	INR Zero Only
53	Supply & fixing Towel Rings jaquar make & model no. ACN-1121N along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	23.00	EACH	INR		0.00	0.00	INR Zero Only
54	Supply & fixing PVC Connection Pipe 24" along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	44.00	EACH	INR		0.00	0.00	INR Zero Only
55	Supply & fixing Angle Valve model no. ARI-39053 jaquar make for wash basin, Kitchen sink & Gyser along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	73.00	EACH	INR		0.00	0.00	INR Zero Only
56	Supply & fixing Floor Trap cromium plated 5" dia along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	52.00	EACH	INR		0.00	0.00	INR Zero Only
57	Supply & fixing Two way Bib cock jaquar make model no. ARI-39041 along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	42.00	EACH	INR		0.00	0.00	INR Zero Only
58	Supply & fixing Health Faucet model no. ALD 579 of Jaquar make for EWC along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	42.00	EACH	INR		0.00	0.00	INR Zero Only
59	Supply & fixing Urinal Push Cock model no. PRS-077 along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	15.00	EACH	INR		0.00	0.00	INR Zero Only
60	Supply & fixing Shower OHS -1603 150mm dia & shower arm model No. SHA-479L450 20mmX450mm long round shape with 90 degree bend for wall mounted shower with flange along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
61	Supply & fixing Stainless Steel Kitchen sink model No. CAN-11535 (24X18") along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
62	Supply & fixing Sink Coupling along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
63	Supply & fixing Drain pipe along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
64	Supply & fixing Sink Mixer Jaquar make model no. FLR5309N with Regular Swinging Spout (Wall Mounted Model) With Connecting Legs & Wall Flanges along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	4.00	EACH	INR		0.00	0.00	INR Zero Only
65	Supply & fixing sink cock Sink Cock with Regular Swinging Spout (Wall Mounted Model) With Wall Flange jaquar make model no. FLR-5347N along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	2.00	EACH	INR		0.00	0.00	INR Zero Only
66	Supply & fixing Wall mixture with telephone shower arrangement, connecting legs & wall flange but without crutch & telephone shower Jaquar make & model No. FLR 5217N along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
67	Supply & fixing Hand Drier ASKON make & model No. AS-25-IR(W) size 290mmX220mmX145mm along with all necessary fixing arrangement, labour, tools & tacksels etc. complete	10.00	EACH	INR		0.00	0.00	INR Zero Only
68	Providing and laying Urinal Partition (400 mm x 1,200 mm) of machine cut and both side machine pre-polished Granite Stone slab, Type: W14, 19 mm thick of size as per drawings set on backing coat of cement mortar 1:3 not exceeding 19 mm thick, including pointing with matching cement paste with pigmented additives to match the shade of the slab	10.00	EACH	INR		0.00	0.00	INR Zero Only
69	C) ELECTRICAL WORKS Wiring Supply and drawing following of FRLS PVC insulated copper conductor, single core cable in existing surface/recessed steel/PVC conduit including identifying existing conduits, minor repairing etc as required as per approved drawing to complete the job as directed by engineer-in-charge.	1200.00	Mtr	INR		0.00	0.00	INR Zero Only
70	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire							
71	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	850.00	Mtr	INR		0.00	0.00	INR Zero Only
72	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	520.00	Mtr	INR		0.00	0.00	INR Zero Only
73	4 X 4 sq. mm	220.00	Mtr	INR		0.00	0.00	INR Zero Only
74	4 X 6 sq. mm	220.00	Mtr	INR		0.00	0.00	INR Zero Only
75	4 X 10 sq. mm	150.00	Mtr	INR		0.00	0.00	INR Zero Only

Item Wise BoQ

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

Contract No: PCO/BBSR/806/159 Dt.29.02.2024

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1	2	4	5	12	7	13	14	15
75	Supplying and fixing of following sizes of Heavy class PVC FRLS conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Make- AKG /Percision 20 mm	300.00	Mtr	INR		0.00	0.00	
76	25 mm	450.00	Mtr	INR		0.00	0.00	INR Zero Only
77	32 mm	150.00	Mtr	INR		0.00	0.00	INR Zero Only
78	Supplying and fixing of following sizes of medium class Steel conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Make- AKG 20 mm	500.00	Mtr	INR		0.00	0.00	INR Zero Only
79	25 mm	380.00	Mtr	INR		0.00	0.00	INR Zero Only
80	Supply and fixing 3 pin, 5A ceiling rose on the junction box including connetions etc. As required.	180.00	Nos	INR		0.00	0.00	INR Zero Only
81	Supply and fixing PVC batten/angle holder including connetion etc. as required.	10.00	Nos	INR		0.00	0.00	INR Zero Only
82	Supplying and fixing of following sizes of PVC Raceway along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 100 x 50 mm	50.00	Mtr	INR		0.00	0.00	INR Zero Only
83	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. Make- Legrand-Lyncus 1 or 2 Module (75mmX75mm)	20.00	Nos	INR		0.00	0.00	INR Zero Only
84	3 Module (100mmX75mm)	20.00	Nos	INR		0.00	0.00	INR Zero Only
85	4 Module (100mmX75mm)	20.00	Nos	INR		0.00	0.00	INR Zero Only
86	6 Module (100mmX75mm)	20.00	Nos	INR		0.00	0.00	INR Zero Only
87	8 Module (100mmX75mm)	18.00	Nos	INR		0.00	0.00	INR Zero Only
88	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including identifying existing wires, providing of pvc tube ferrule as per circuit, connections but excluding modular plate etc. as required. Make-Legrand-Lyncus 5/6 A switch	948.00	Nos	INR		0.00	0.00	INR Zero Only
89	15/16 A switch	250.00	Nos	INR		0.00	0.00	INR Zero Only
90	3 pin 5/6 A socket outlet	464.00	Nos	INR		0.00	0.00	INR Zero Only
91	6 pin 15/16 A socket outlet	250.00	Nos	INR		0.00	0.00	INR Zero Only
92	Supply and fixing following Modular base & cover plate on existing modular metal box etc. as required. 1 or 2 Module	280.00	Nos	INR		0.00	0.00	INR Zero Only
93	3 Module	382.00	Nos	INR		0.00	0.00	INR Zero Only
94	4 Module	35.00	Nos	INR		0.00	0.00	INR Zero Only
95	6 Module	180.00	Nos	INR		0.00	0.00	INR Zero Only
96	8 Module	28.00	Nos	INR		0.00	0.00	INR Zero Only
97	TV antenna socket outlet	5.00	Nos	INR		0.00	0.00	INR Zero Only
98	Modular blanking plate	22.00	Nos	INR		0.00	0.00	INR Zero Only
99	DB, MCBS, RCCBs Etc. Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board(Double door), 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/isolator) Make-L&T 4 way (4 + 12), Double door (VTPN)	4.00	Nos	INR		0.00	0.00	INR Zero Only
100	8 way (4 + 24), Double door (VTPN)	4.00	Nos	INR		0.00	0.00	INR Zero Only
101	Supplying and fixing 5A to 32A rating, 240/415 volts, 10 kA, "C" curve,miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with identifying existing wires, wire dressing, providing pvc tube ferrule as per circuit, lugs, connections, testing and commissioning etc. as required. as directed by engineer-in-charge. Make-L&T 6 A to 32 A ratings , SP MCB,"C" curve, 10 KA breaking capacity	742.00	Nos	INR		0.00	0.00	INR Zero Only
102	6 A to 32 A ratings , TPN MCB,"C" curve, 10 KA breaking capacity	98.00	Nos	INR		0.00	0.00	INR Zero Only
103	40/63 A ratings , TPN MCB,"C" curve, 10 KA breaking capacity	17.00	Nos	INR		0.00	0.00	INR Zero Only
104	100 A ratings , TPN MCB,"C" curve, 16 KA breaking capacity	2.00	Nos	INR		0.00	0.00	INR Zero Only
105	25 A rating, 2 pole RCCB, 30mA/100mA as per requirement.	4.00	Nos	INR		0.00	0.00	INR Zero Only
106	40 A rating, 2 pole RCCB, 30mA/100mA as per requirement.	38.00	Nos	INR		0.00	0.00	INR Zero Only
107	63 A rating, 2 pole RCCB, 30 mA	15.00	Nos	INR		0.00	0.00	INR Zero Only
108	100 A rating, 2 pole RCCB, 30 mA	4.00	Nos	INR		0.00	0.00	INR Zero Only
109	25 A rating, 4 pole RCCB, 30 mA	25.00	Nos	INR		0.00	0.00	INR Zero Only

Item Wise BoQ

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Contract No: PCO/BBSR/006/159 Dt.29.02.2024

<div>Name of the Bidder/ Bidding Firm / Company :</div>								
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1	2	4	5	12	7	13	14	15
110	Supply and fixing 20A, 240V, SPN Industrial type socket outlet, with 2 pole and earth mental enclosed plug top alongwith 20 A "C" curve, SP, MCB in sheet steel encloser, on surface or recess, with chained metal cover for the socket outlet and complete with connection, testing & commissioning etc as required.	3.00	Nos	INR		0.00	0.00	INR Zero Only
111	Supply and fixing 30A, 415V, TPN Industrial type socket outlet, with 4 pole and earth mental enclosed plug top alongwith 30 A "C" curve, TPMCB in sheet steel encloser, on surface or recess, with chained metal cover for the socket outlet and complete with connection, testing & commissioning etc as required.	8.00	Nos	INR		0.00	0.00	INR Zero Only
112	CABLE TRAY CABLING AND END TERMINATION etc. Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray cable tray with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders /MS Angel including G.I. bolts & nuts, etc as required.as directed by engineer-in-charge. 100 mm width X 60 mm depth X1.6 mm thickness	120.00	Mtr	INR		0.00	0.00	INR Zero Only
113	150 mm width X 50 mm depth X 1.6 mm thickness	80.00	Mtr	INR		0.00	0.00	INR Zero Only
114	300 mm width X 60 mm depth X 1.6 mm thickness	60.00	Mtr	INR		0.00	0.00	INR Zero Only
115	Supply, loading, transportation unloading at site, storages at site ,shifting from storage place to site of following sizes of XLPE insulated PVC sheathed, outersheath FRLS, Aluminium conductor flat strip armoured power cable of 1.1 KV grade conforming to IS amended upto date and as per specifications. 4C x 10 Sqmm.	200.00	Mtr	INR		0.00	0.00	INR Zero Only
116	4C x 16 Sqmm.	350.00	Mtr	INR		0.00	0.00	INR Zero Only
117	3.5C x 25 Sqmm.	85.00	Mtr	INR		0.00	0.00	INR Zero Only
118	3.5C x 35 Sqmm.	65.00	Mtr	INR		0.00	0.00	INR Zero Only
119	3.5C x 50 Sqmm.	80.00	Mtr	INR		0.00	0.00	INR Zero Only
120	3.5C x 240 Sqmm.	50.00	Mtr	INR		0.00	0.00	INR Zero Only
121	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq.mm	400.00	Mtr	INR		0.00	0.00	INR Zero Only
122	Above 35 sq.mm and upto 95 sq. mm	401.00	Mtr	INR		0.00	0.00	INR Zero Only
123	Above 185 sq.mm and upto 400 sq. mm	600.00	Mtr	INR		0.00	0.00	INR Zero Only
124	Supplying,laying and making end termination of one number PVC insulated armoured and PVC sheathed Cu conductor power cable of 1.1 KV grade of following size cables as required to complete the job.[MAKE-Polycab] 4 core 2.5 sqmm copper armoured cable	100.00	Mtr	INR		0.00	0.00	INR Zero Only
125	3 core 2.5 sqmm copper armoured cable	80.00	Mtr	INR		0.00	0.00	INR Zero Only
126	2 core 2.5 sqmm copper armoured cable	80.00	Mtr	INR		0.00	0.00	INR Zero Only
127	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium cable of 1.1 KV grade as required.mentioned size cable. 4C x 10 Sqmm.	15.00	Nos	INR		0.00	0.00	INR Zero Only
128	4C x 16 Sqmm.	15.00	Nos	INR		0.00	0.00	INR Zero Only
129	3.5C x 25 Sqmm.	20.00	Nos	INR		0.00	0.00	INR Zero Only
130	3.5C x 35 Sqmm.	24.00	Nos	INR		0.00	0.00	INR Zero Only
131	3.5C x 50 Sqmm.	10.00	Nos	INR		0.00	0.00	INR Zero Only
132	3.5C x 240 Sqmm.	46.00	Nos	INR		0.00	0.00	INR Zero Only
133	EARTHING INSTALLATION Supplying and laying of G.I./copper Earth strip on surface or in recess for connections etc. as required. 25 mm X 6 mm G.I. strip	80.00	Mtr	INR		0.00	0.00	INR Zero Only
134	40 mm X 6 mm G.I. strip	40.00	Mtr	INR		0.00	0.00	INR Zero Only
135	50 mm X 6 mm G.I. strip	100.00	Mtr	INR		0.00	0.00	INR Zero Only
136	26 mm X 6 mm G.I. copper	130.00	Mtr	INR		0.00	0.00	INR Zero Only
137	Providing and fixing 6 SWG dia G.I wire on surface or in recess for loop earthing as required.	30.00	Mtr	INR		0.00	0.00	INR Zero Only
138	Providing and fixing 16 SQMM Copper Wire on surface or in recess for earthing as required.	70.00	Mtr	INR		0.00	0.00	INR Zero Only
139	Installation, Testing & Commissioning of 50mm dia GI Pipe earthing including excavation, charcoal, salt, pit chamber with cover etc as required.	6.00	Nos	INR		0.00	0.00	INR Zero Only

Item Wise BoQ

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

Contract No: PCO/BBSR/006/159 Dt.29.02.2024

Name of the Bidder/ Bidding Firm / Company :								
<div>PRICE SCHEDULE</div> <div>(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)</div> <div>(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)</div>								
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE (including Transportation Insurance, F.O.R.) In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	12	7	13	14	15
140	LIGHT FITTING FIXTURES Supplying, Installation, Testing & Commissioning of following type light fixtures. Make-Wipro LL22-511-XXX-65-AL2 (40W LED BATTEN)	148.00	Nos	INR		0.00	0.00	INR Zero Only
141	LD06-111-XXX-57-XX (9W RECESSED LED DOWNLIGHT)	35.00	Nos	INR		0.00	0.00	INR Zero Only
142	CRCO10R038HP57DAG2 (30W DALI DIMMABLE RECESSED 2x2 LED PANEL)	2.00	Nos	INR		0.00	0.00	INR Zero Only
143	LD06-171-XXX-2765 (15W TUNABLE DIMMABLE RECESSED LED DOWNLIGHT)	12.00	Nos	INR		0.00	0.00	INR Zero Only
144	LD06-171-XXX-57SMG1	0.00	Nos.	INR		0.00	0.00	INR Zero Only
145	LD06-171-XXX-57-XX	4.00	Nos.	INR		0.00	0.00	INR Zero Only
146	CRCO10R038HP57G2 Immaculate+ : Recess Mounted 2ft x 2ft LED Luminaire with Diffuser	2.00	Nos.	INR		0.00	0.00	INR Zero Only
147	LL20-221-XXX-65NE3 TrimLED Neo - 4FT LED Batten	5.00	Nos.	INR		0.00	0.00	INR Zero Only
148	LM34-251-XXX-57RMCG1	10.00	Nos.	INR		0.00	0.00	INR Zero Only
149	GLPSDA - Smart Daylight PIR occupancy detector, with DALI output	5.00	Nos.	INR		0.00	0.00	INR Zero Only
150	Cove Light Driver LG40-050	1.00	Nos	INR		0.00	0.00	INR Zero Only
151	Cove Light-LS06-010-120-30-50 + LG40-050	5.00	Nos	INR		0.00	0.00	INR Zero Only
152	9W Bulk Head Light-LW07-141-XXX-57-G1	34.00	Nos	INR		0.00	0.00	INR Zero Only
153	PIR Occupancy sensor-GLPS01R010A	25.00	Nos	INR		0.00	0.00	INR Zero Only
154	Exit Lights-Make-Prolite	40.00	Nos	INR		0.00	0.00	INR Zero Only
155	Installation, Testing & Commissioning of Decorative type light fixtures in Surface/False ceiling as per approved drawing/ as directed by engineer-in-charge including connectors etc as required.	913.00	Nos	INR		0.00	0.00	INR Zero Only
156	DG Set Balance works SITC of Indoor type DG Metering Panel with 2mm thick sheer powder coated for 625 KVA DG Set 3phase, 4wire Static LT CT Energy meter -03nos , 1000/ 5A Class 1.0 -03 nos , STL Testing Charges-CT's & Meter M5 base frame, Test Reports etc as required for installation etc. to complete the work in all respect.	2.00	Nos	INR		0.00	0.00	INR Zero Only
157	SITC Insulation and cladding for exhaust ducting inside genset room area and outside using 50 mm thick rockool of density 120 Kg/ M3 & 24 SWG Aluminium Sheet for botht the Gas Generator sets 250 mm (NB) dia Exhaust Pipe	8.00	Rm	INR		0.00	0.00	INR Zero Only
158	400 mm (NB) dia Exhaust Pipe	10.00	Rm	INR		0.00	0.00	INR Zero Only
159	SITC of all accessories such as flanges, stainless steel flexible bellows etc. and fixing/ supporting arrangement etc. as required to complete the work.	1.00	Ls	INR		0.00	0.00	INR Zero Only
160	Supply, Laying and end termination of one number PVC insulated and PVC sheathed FRLS / XLPE copper control cable of 1.1 KV grade of following size in the existing cable tray/DWC pipe as required. 2C x 2.5 Sqmm	150.00	Mtr	INR		0.00	0.00	INR Zero Only
161	4C x 2.5 Sqmm	150.00	Mtr	INR		0.00	0.00	INR Zero Only
162	6C x 2.5 Sqmm (Shielded Cable)	120.00	Mtr	INR		0.00	0.00	INR Zero Only
163	24C x 2.5 Sqmm (Shielded Cable)	120.00	Mtr	INR		0.00	0.00	INR Zero Only
164	Lightning Protection System Work Supply, installation, testing & commissioning of 8 mm Aluminum Round Conductor OBO Type No. RD 8/ALU I (5450086)	250.00	Mtr	INR		0.00	0.00	INR Zero Only
165	Supply, installation, testing & commissioning of Roof conductor holder for parapet- Polyamide Conductor holder:With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance OBO Type No. 177 30 M8 (5207460)	320.00	Nos	INR		0.00	0.00	INR Zero Only
166	Supply, installation, testing & commissioning of 1 mtr vertical air terminal with mounting accessories on the flat surface to meet the requirements of IS/IEC 62305. Tested for Electrical , mechanical and chemical as per IEC 62561. Tested for 100kA lightning current. OBO type No.F-FIX JUNIOR (5403308)	8.00	Nos	INR		0.00	0.00	INR Zero Only
167	Supply, installation, testing & commissioning of Lightnig counter - To count no of lightning strike & it can record the date and time of the lightning incident also tested as per IEC 62561-6. OBO Type No. LSC I-II (5091 72 2)	1.00	Nos	INR		0.00	0.00	INR Zero Only
168	Supply, installation, testing & commissioning of T 160 OE HD TR Junction Box - IP 66 ,JK10 Transperant Junction Box for Lightning Counter.	1.00	Nos	INR		0.00	0.00	INR Zero Only
169	Down conductor Supply, installation, testing & commissioning of Test joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer.Tested for 100kA lightning current.OBO Type No. 271 8-10 (5317401)	13.00	Nos	INR		0.00	0.00	INR Zero Only
170	Ring & vertical earthing system Supply, installation of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate. OBO Type No. 255 FL30 FT (5314534)	22.00	Nos	INR		0.00	0.00	INR Zero Only

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171	Supply of flat conductor holder- Fit: FL 30, With mounting hole 6.2 x 22 mm, With 2 cylinder bolts M6 x 16 and over-piece from hot-dip galvanised steel, Bottom section from polyamide, black OBO Type No. 833 35 (5033039)	26.00	Nos	INR		0.00	0.00	INR Zero Only	
172	Supply, installation of Plastic Corrosion Protection strip: Approx 1.1 mm thick. Width 50mm. Made of petrolatum- coated chemical fibre fabric. OBO Type No.356 50 (2360055)	2.00	Nos	INR		0.00	0.00	INR Zero Only	
173	Supply of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor Hot Dipped Galvanized. OBO Type No. 5052 DIN 30X3 (5450436)	295.00	Mtr	INR		0.00	0.00	INR Zero Only	
174	UPS Supply, installation, Testing and Commissioning of 2 X 100% modular redundant 45kVA UPS System with Static By-pass and 2X 100% Lead Acid SMF VRLA Battery Bank, Servo with 30 Mins back up shall be provided for providing power supply to Desktop/ Workstations through output UPS Distribution Boards and associated works complete in all respects as per scope of work,Approved TDS as directed by Engineer in-charge. Make-Emerson	1.00	Nos	INR		0.00	0.00	INR Zero Only	
175	Supply, Installation, Testing and Commissioning of 100% conventional non redundant 25kVA UPS System with 100% Lead Acid SMF VRLA Battery Bank with 30 Mins back up shall be provided for providing power supply to Desktop/ Workstations through output UPS Distribution Boards and associated works complete in all respects as per scope of work,Approved TDS as directed by Engineer in-charge. Make-Emerson	1.00	Nos	INR		0.00	0.00	INR Zero Only	
176	SAFETY AND FIRE PROTECTION EQUIPMENTS Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel,atleast 2mm thick,and vitreous enamelled white on both sides,and with inscription in single red colour on front side as required.	2.00	Nos	INR		0.00	0.00	INR Zero Only	
177	Providing and fixing HT danger notice plate of 250 mm X 200 mm, made of mild steel,atleast 2mm thick,and vitreous enamelled white on both sides,and with inscription in single red colour on front side as required.	2.00	Nos	INR		0.00	0.00	INR Zero Only	
178	Supply and fixing framed covered with laminated shock treatment chart in English ,Hindi & Local language.	1.00	Nos	INR		0.00	0.00	INR Zero Only	
179	Supply and fixing framed covered with laminated Main Panel SLD in electrical room as per IE rules fixed to wall as required.	1.00	Nos	INR		0.00	0.00	INR Zero Only	
180	Supply, installation, testing and commissioning of Standard First aid box (Medic 1500) complete with all accessories as required.	1.00	Nos	INR		0.00	0.00	INR Zero Only	
181	Supply, installation of Co2 type duly refilled 4.5 Kg & ready to use	27.00	Nos	INR		0.00	0.00	INR Zero Only	
182	Supply, installation of 4kg ABC type Fire extinguisher	27.00	Nos	INR		0.00	0.00	INR Zero Only	
183	Providing & fixing 4 nos. fire buckets with stand.	1.00	Nos	INR		0.00	0.00	INR Zero Only	
184	Providing & fixing of 'No Smoking' and 'No Unauthorized Entry' signboards in English and Hindi, as per IPR- 1970.	1.00	Nos	INR		0.00	0.00	INR Zero Only	
185	Supply and laying of 2 mm thick 1000mm wide chequered rubber mat with ISI mark suitable for 1.1 KV installation .	10.00	Sqmt	INR		0.00	0.00	INR Zero Only	
186	SITC of Autoglo Photoluminescent Signages & Plan for CCC Building including basement area.	1.00	Ls	INR		0.00	0.00	INR Zero Only	
187	Liasioning, Approval and Obtaining CEG Certificate from Electrical Inspector, Safety Dept. & Other Dept. if any for all existing along with new Electrical, HVAC, etc installations, preparation of As-built drawings of all installation of CCC Building as per the requirement to complete the job	1.00	Ls	INR		0.00	0.00	INR Zero Only	
188	Testing & Commissioning of 2 nos CSS, RMU, LT panels, 2 Nos 625 kVA DG set etc with required fuel, servicing, consumable items etc with all respect to complete the job.	1.00	Ls	INR		0.00	0.00	INR Zero Only	
189	D ICT WORKS ANALOGUE ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM Supply, installation, testing & commissioning (SITC) of Analog Addressable Fire Alarm Control panel with battery back up for 24 hours normal operation and 15 minutesalarm operation. The control panel, battery charger etc, shall be UL listed.ditto but 4 loop panel with 99 detectors & 99 modules upto 200 detectors and modules (per each loop). The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel that shall include a backlit 840character or Better display, individual, color coded system status LEDs, and keypad for the field programming and control of the fire alarm system. Each Loop shall support a minimum of 125 addressable detectors and 125 devices. The system shall be capable of 3072 annunciation points per system regardless of the number of addressable devices. The panel shall be UL listed and FM approved and comply UL 864, 9th Edition requirement. The enclosure shall also be UL listed. The quoted rate shall include SITC of necessary software and hardware for programming the panel with all necessary licence. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	1.00	Nos	INR		0.00	0.00	INR Zero Only	
190	Supply, installation, testing & commissioning (SITC) of UL listed Intelligent Addressable Multi-Criteria smoke cum Heat detector, optical type with blinking LED and standard base, being capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable. complete with base as required. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	206.00	Nos	INR		0.00	0.00	INR Zero Only	
191	Supply, installation, testing & commissioning (SITC) of UL Listed Addressable control module complete as required for switching ON of smoke extraction fans / Pressurisation Fans etc. and switching off AHU' s, capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable, complete as required.and as per specifications. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	42.00	Nos	INR		0.00	0.00	INR Zero Only	
192	SITC of Analogue Addressable Control relay module having Rotary, decimal addressing system for AHU tripping and shall be capable of providing DPDTcontact rated at 24v DC, 2A. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	3.00	Nos	INR		0.00	0.00	INR Zero Only	
193	SITC of Duct Detector As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	3.00	Nos	INR		0.00	0.00	INR Zero Only	
194	SITCof UL Listed Fire Alarm Hooter (sound output of minimum 90 dB upto a distance of 30 meters) cum Strobe (Selectable 15, 30, 75, or 110 cd), made Addressable with the help of Intelligent Addressable Signal Module (cost of the Module to be included), capable of being addressed electronically. Manual Addressing (Dip/ Rotary Switches) not acceptable, with separate power SITC arrangement complete as required. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	19.00	Nos	INR		0.00	0.00	INR Zero Only	
195	SITC of Addressable Break Glass Manual Call Point having Rotary, decimal addressing system and having an integrally mounted addressable module that monitors and reports contact status.UL Listed. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	17.00	Nos	INR		0.00	0.00	INR Zero Only	
196	Supply, installation, testing & commissioning (SITC) Response Indicator Make :- As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	100.00	Nos	INR		0.00	0.00	INR Zero Only	
197	SITC of 1000 V grade 2 core 1.5 sq mm Copper Conductor XLPE Low Smoke Halogen Free Insulated with Fire-Rated Glass Mica Tape, LSZH Inner & Outer Sheathed, Armoured Fire Survival Cable conforming to BS 7846:2015, Fire Resistance as per BS 8434-2:2003, 930°C rating for three hours for fire alarm system. Approved Make :- R/R/Polycab	1500.00	RM	INR		0.00	0.00	INR Zero Only	

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198	Supply, instatlation, testing & commissiong 8 zone conventional Fire Fighting Telephone panel	1.00	Nos	INR		0.00	0.00	INR Zero Only
199	Supply, instatlation, testing & commissiong of Fire Fighting Telephone Handset.	14.00	Nos	INR		0.00	0.00	INR Zero Only
200	Supply, instatlation, testing & commissiong of Fire Fighting Telephone Jacks.	14.00	Nos	INR		0.00	0.00	INR Zero Only
201	Supply, instatlation, testing & commissiong of GSM Dialer for 5 numbers	1.00	Nos	INR		0.00	0.00	INR Zero Only
202	Supply, instatlation, testing & commissiong of Repeater Panel with 168 Character LCD Display, repeater Panel CPU should have the same intelligence and capability of panel CPU. UL Listed & FM approved	1.00	Nos	INR		0.00	0.00	INR Zero Only
203	PUBLIC ADDRESS SYSTEMS SITC of 8 zone IP based, digital Voice Alarm controller expandable upto 128 zones each controller shell be capable of including 4 channel and minimum 500 Watts .The voice alarm controller should be able to connect directly over Ethernet. It should have functions like the audio playing, zone control, fault monitoring, log recording, volume control and amplifier switchover. The Voice alarm controller should also have the following functions: 25S Priorities and 256 Zone . Time schedule broadcasts. Capable of amplifier redundancy. 4 trigger inputs/outputs. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	1.00	Nos	INR		0.00	0.00	INR Zero Only
204	SITC of 1X500 W Class-D Amplifier with 1 independent channel and can provide automatic resettable overcurrent, overload, overheating, overvoltage, under-voltage and DC protection. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	2.00	Nos	INR		0.00	0.00	INR Zero Only
205	SITC of IP based Networkable touch screen paging station for selection of zones, supervision of system status, setting of scheduled broadcasts with the following functions: . Built-in monitoring loudspeaker. Detachable goose-neck microphone . LCD touchscreen display . Audio input. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	1.00	Nos	INR		0.00	0.00	INR Zero Only
206	SITC of UL Listed 6 W False Ceiling/Surface Mounted speaker with capacity to have 1/4,1/2,1 and 2 watt tapping, working at 83dB compatible with amplifier complete as required. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	130.00	Nos	INR		0.00	0.00	INR Zero Only
207	SITC of UL Listed 2way 6 W Surface/wall Mounted speaker with capacity to have 1/4,1/2,1 and 2 watt tapping, working at 83dB compatible with amplifier complete as required. As per Technical specification, approved TDS as directed by Engineer in-charge.Make:- Honeywell	23.00	Nos	INR		0.00	0.00	INR Zero Only
208	SITC 2 core twin twisted 48/0.2 ATC, Multi strand, over all armoured speaker cable as specified in the Tender Specifications.	1000.00	RM	INR		0.00	0.00	INR Zero Only
209	CCTV SYSTEMS SITC of Workstation PC: Intel(R) Core(TM) i7-3770 Processor (8M Cache, up to 3.90 GHz); Memory: 4GB, NON-ECC, 1600MHz; RAM: 4GB (1x4GB) Non-ECC DDR3 1600MHz SDRAM Memory; Keyboard: 12 function keys; Chassis: Tower/Workstation; DVD: 8X Slimline DVD+/-RW, Data Only; 20" TFT Monitor; Dual Graphics Card; Network interface card: Integrated Intel(R), 82579LM Gigabit Ethernet LAN 10/100/1000; Hard disk: 250GB, 7200 RPM 3.5" SATA 6Gb/s Hard Drive; Operating system: Windows 7 Professional 64 Bit.As per Technical specification, approved/complying commented TDS as directed by Engineer in-charge.	1.00	Nos	INR		0.00	0.00	INR Zero Only
210	SITC of Full HD 65" LED Professional Display Panel.	1.00	Nos	INR		0.00	0.00	INR Zero Only
211	SITC of 24 Port POE Layer 2 Switch with 2 SFP Port Addressing (Dip/ Rotary Switches) not acceptable. complete with base as required. Approved Make :- Digisoul	4.00	Nos	INR		0.00	0.00	INR Zero Only
212	SITC of 24 port Cat 6 patch panels equipped with tool less IO, Rack Mountable. 19" Modular Patch Panel, loaded CAT6 U/UTP 24 port. Approved Make List :- Legrand	4.00	Nos	INR		0.00	0.00	INR Zero Only
213	SITC of 4 Feet : CAT6 UTP 23 AWG Patch Cord - 1 mtr - Rack End. Factory crimped LCS2 Patch cord in Blue colour . Approved Make:- Legrand, Panduit, Siemon.	42.00	Nos	INR		0.00	0.00	INR Zero Only
214	SITC of 6TB HDD	4.00	Nos	INR		0.00	0.00	INR Zero Only
215	SITC, installation, testing and commissioning of UL Listed 2 MP bullet camera, as per Technical specification, approved TDS as directed by Engineer in-charge.	7.00	Nos	INR		0.00	0.00	INR Zero Only
216	SITC UL Listed 3 MP Dome Camera, as per Technical specification, approved TDS as directed by Engineer in-charge.	33.00	Nos	INR		0.00	0.00	INR Zero Only
217	SITC of 42U Network Rack with 19" PDU 6 points 5 amp, stationary shelf, Mounting Hardware(pac Of 10), Cable manager Horizontal 1U, Fan 230 vac 90 cfm top mounted.As per Technical specification, approved TDS as directed by Engineer in-charge. Approved Make :- LEGRAND	1.00	Nos	INR		0.00	0.00	INR Zero Only
218	SITC of UTP 4 pair CAT 6 LAN Cable in the surface/ recessed including HMS FRLS PVC conduit as required. 4 Pair CAT6 Unshielded, Twisted Pair (U/UTP) conforming to the following standards like ANS/TIA 568 C.2, EN50173, IEC 11801 2nd ED, 700MHz etc. in Cat 6 U/UTP LCS2 cable with 23AWG Approved Make List :- Cat6-Legrand, Conduit-AGG/Percision	1250.00	RM	INR		0.00	0.00	INR Zero Only
219	SITC of 4 STB (8x 6 TB 7.2k RPM SATA Enterprise Gragde G Bbon 3.5 in Hot- plug Hard Drive) , Embedded Linux / windows 2012 R2 Server , Quad Gigabit Ethernet interfaces, Hardware Raid controller to support Raid 0.1.5.6 or more, preinstalled VMS. Licenses required to activate camera Channels, Dual Redundant PSU,DVD+/-RW Drive, Rack. As per Technical specification, approved TDS as directed by Engineer in-charge.	1.00	Nos	INR		0.00	0.00	INR Zero Only
220	DATA & VOICE NETWORKING SYSTEM SITC of 24 Port Layer 2 Switch with 2 SFP Port Addressing (Dip/ Rotary Switches) not acceptable. complete with base as required. As per Technical specification, approved TDS as directed by Engineer in-charge.	8.00	Nos	INR		0.00	0.00	INR Zero Only
221	SITC of Cat 6 , Tool less Information outlet for Data Cat6 U/UTP built in crimping handsfree, minimum 5 times reconnection possibilities. LCS2 Toolless RJ45 Information outlet where insertion test (in &out) must be 2500 times (I/O) along with front side Label holded and transparent shutter for projection in existing front plate and back box in concealed/surface manner of adequate sizes, including all fixing accessories. Approved Make: Legrand (Lyncus, White)	190.00	Nos	INR		0.00	0.00	INR Zero Only
222	SITC of RJ 11 Telephone socket for Voice. RJ 11 voice outlet along with front side Label holded projection in existing front plate and back box in concealed/surface manner of adequate sizes, including all fixing accessories. Approved Make: Legrand (Lyncus, White)	95.00	Nos	INR		0.00	0.00	INR Zero Only
223	Supply, Installation,Testing & commissioning of 100 Pair DP Box with Krone Module and all other materials as required. Make - Krone/ Similar.	5.00	Nos	INR		0.00	0.00	INR Zero Only
224	Supply, Installation,Testing & commissioning of 2 pair Telephone cable as per approved TDS as directed by Engineer in-charge, Make-Polycab	1000.00	Mtr	INR		0.00	0.00	INR Zero Only
225	SITC of4 Feet : CAT6 UTP 23 AWG Patch Cord - 1 mtr - Rack End. Factory crimped LCS2 Patch cord in Blue colour . Approved Make:- Legrand,	104.00	Nos	INR		0.00	0.00	INR Zero Only

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226	SITC and drawing of UTP 4 pair CAT 6 LAN Cable in the surface/ recessed including HMS FRLS PVC conduit as required. 4 Pair CAT6 Unshielded, Twisted Pair (U/UTP) conforming to the following standards like ANSI/TIA 568 C.2, EN50173, IEC 11801 2nd ED, 700MHz etc. in Cat 6 U/UTP LCS2 cable with 23AWG.Approved Make List :- Cat6-Legrand, Conduit-AGK/Percision	500.00	Mtr	INR		0.00	0.00	INR Zero Only
227	Supply, instatlation, testing & commissionng (SITC) of Wifi ACCESS POINT along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	13.00	Nos	INR		0.00	0.00	INR Zero Only
228	Supply, instatlation, testing & commissionng (SITC) of 12 POT OFC LIU BOX along with all accessories as per Technical specifications, approved TDS as directed by Engineer in-charge	4.00	Nos	INR		0.00	0.00	INR Zero Only
229	Supply, instatlation, testing & commissionng (SITC) of 6 POT OFC LIU BOX along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	2.00	Nos	INR		0.00	0.00	INR Zero Only
230	Supply, instatlation, testing & commissionng (SITC) of SC PIGTEL along with all accessories as perTechnical specification, approved TDS as directed by Engineer in-charge	60.00	Nos	INR		0.00	0.00	INR Zero Only
231	Supply, instatlation, testing & commissionng (SITC) of DULE MODUL TRANSRECEIVER along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	10.00	Nos	INR		0.00	0.00	INR Zero Only
232	Supply, instatlation, testing & commissionng (SITC) of SC TO LC PATCH CORD along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	10.00	Nos	INR		0.00	0.00	INR Zero Only
233	Supply, instatlation, testing & commissionng (SITC) of 15 U WALL MOUNTED RACK WITH ALL ACCORIES along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	3.00	Nos	INR		0.00	0.00	INR Zero Only
234	Supply, instatlation, testing & commissionng (SITC) of OFC 6 CORE FIBER along with all accessories as per Technical specification, approved TDS as directed by Engineer in-charge	500.00	RM	INR		0.00	0.00	INR Zero Only
235	E) HVAC WORKS Supply, Installation, Testing & Commissioning of Floor mounted DX Type double skin air handling units, including refrigerant topup, civil foundation etc. as required to complete the job as per approved technical data sheet complying all the comments/specification. Make-Zeco 11400 CFM, 28.5 TR	1.00	Nos	INR		0.00	0.00	INR Zero Only
236	4800 CFM, 12TR	2.00	Nos	INR		0.00	0.00	INR Zero Only
237	Supply, installation, testing and commissioning of Tube Axial Fan AMCA Certified air and sound performance (In accordance with AMCA 210 and 301) with - Aerofoil impeller with adjustable pitch angle for maximum efficiency Die cast aluminium hub and blades- Long casing, hot dip galvanized steel, to DIN EN ISO 1461- Three-phase IEC motors, IP55, Suitable for operating temperatures of up to 55°C,For fire application fans should be Suitable for operating temperatures of up to 250°C / 120 min (Tested in accordance to EN 12101-3:2002) The motor should have speed controllable by frequency converter.Including Spring Isolator, necessary supports etc.Static Pressure and other specifications as per the approved technical specification complying all the comments.as per direction of Engineer-in-charge. Make-Kurger 4500 CFM	2.00	Nos	INR		0.00	0.00	INR Zero Only
238	5000 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
239	6000 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
240	18000 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
241	18000 CFM	2.00	Nos	INR		0.00	0.00	INR Zero Only
242	28000 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
243	28000 CFM	2.00	Nos	INR		0.00	0.00	INR Zero Only
244	Supply, installation, testing & commissioning of Cabinet Inline Fans with Double Inlet Double Width Direct Driven Fan with single skin supply or extract box fans for inline applications. Robust and quiet operation to the galvanized steel fan and motor support mounted on antivibration rubber plots. Outlet connected to the casing through a canvas joint acting as a flexible seal. Square air inlet and rectangular air outlet. Efficient double inlet galvanized steel forward curved impeller balanced statically and dynamically. Operates with air up to 50°C. Static Pressure and other specifications as per the approved technical specification complying all the comments.as per direction of Engineer-in-charge. Make-Kurger 1000 CFM	16.00	Nos	INR		0.00	0.00	INR Zero Only
245	1200 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
246	1400 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
247	2200 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
248	Supply, installation, testing & commissioning of Circular Inline Fans with Fan Speed-controllable with Integral thermal contacts The Fan should be designed for installation in ducts with minimum 25 mm long spigot connections. The fans will have backward-curved blades and external rotor motors with mounting clamp to prevent the transfer of vibration to the duct. The fans can be speed-controlled via a steplessthyristor or a 5-step transformer. The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing. Static Pressure and other specifications as per the approved technical specification complying all the comments.as per direction of Engineer-in-charge. Make-Kurger 500 CFM	2.00	Nos	INR		0.00	0.00	INR Zero Only
249	600 CFM	1.00	Nos	INR		0.00	0.00	INR Zero Only
250	Supply, installation, testing & commissioning of Propeller Fans (upto 200 CFM) The fan is suitable for wall mounting. Condenser motor with thermo cut-off. Well lubricated bearing for long life operation. Propeller fan incorporated with advance blade design enables powerful airflow at low noise. Automatic shutter. Orifice equipped with oil cup collects oil drops effectively.Front louver with blind shutter enhances privacy and safety protection.Fan is manufactured from ABS Plastic material.as per approved technical specification.Make-Kurger 150 CFM	3.00	Nos	INR		0.00	0.00	INR Zero Only

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

Contract No: PCO/BBSR/806/159 Dt.29.02.2024

<div> <div>Name of the Bidder/ Bidding Firm / Company :</div> <div></div> </div>								
<div> <div>PRICE SCHEDULE</div> <div>(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)</div> <div>(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)</div> </div>								
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE (including Transportation Insurance, F.O.R.) In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	12	7	13	14	15
251	200 CFM	5.00	Nos	INR		0.00	0.00	INR Zero Only
252	Supply, installation, testing & commissioning of Propeller Fans (above 200 CFM) with square plate for wall mounting. Protection guard on the inlet External rotor motor The fan casing, protection guard and impeller are manufactured from galvanized steel, painted in standard black. The fans have sickle bladed impellers.as per approved technical specification.Make-Kurger 400 CFM	2.00	Nos	INR		0.00	0.00	INR Zero Only
253	Design,Supply, installation, testing & commissioning of AHU & Ventilation Fan Starter Panel as per approved technical specification, as per direction of Engineer-in-charge, as per approved make. 11 KW , 3-phase, Star Delta Starter	3.00	Nos.	INR		0.00	0.00	INR Zero Only
254	7.5 KW , 3-phase, Star Delta Starter	2.00	Nos.	INR		0.00	0.00	INR Zero Only
255	5.5 KW , 3-phase, Direct On Line (DOL) Starter	1.00	Nos.	INR		0.00	0.00	INR Zero Only
256	3.7 KW , 3-phase, Direct On Line (DOL) Starter	2.00	Nos.	INR		0.00	0.00	INR Zero Only
257	2.2 KW , 3-phase, Direct On Line (DOL) Starter	1.00	Nos.	INR		0.00	0.00	INR Zero Only
258	1.5 KW , 3-phase, Direct On Line (DOL) Starter	3.00	Nos.	INR		0.00	0.00	INR Zero Only
259	Supplying,laying and making end termination of one number PVC insulated armoured and PVC sheathed Cu conductor power cable of 1.1 KV grade of following size cables as required to complete the job.[MAKE-Polycab] 4 core 16 sqmm copper armoured cable	200.00	Mtr	INR		0.00	0.00	INR Zero Only
260	4 core 10 sqmm copper armoured cable	450.00	Mtr	INR		0.00	0.00	INR Zero Only
261	4 core 6 sqmm copper armoured cable	230.00	Mtr	INR		0.00	0.00	INR Zero Only
262	Supply & fixing of Individual rain protected isolator (IP 65) 63 amps including DB box complete with connections, testing and commissioning etc. as required. as per approved make.	5.00	Nos	INR		0.00	0.00	INR Zero Only
263	Supply & fixing of rain protected isolator (IP 65) 32 amps including DB box complete with connections, testing and commissioning etc. as required. as per approved make.	8.00	Nos	INR		0.00	0.00	INR Zero Only
264	Supply, Installation, Testing & Commissioning of AHU Kit comprising sensors and electronic expansion valve etc as required.Make-LG	1.00	Nos	INR		0.00	0.00	INR Zero Only
265	Supply, Installation, Testing & Commissioning of Cordless Remote Controller. Make-LG	50.00	Nos	INR		0.00	0.00	INR Zero Only
266	Supply, Installation, Testing & Commissioning of Corded Remote Controller. Make-LG	3.00	Nos	INR		0.00	0.00	INR Zero Only
267	Supply, Installation, Testing & Commissioning of distribution joint (Indoor Unit). Make-LG	18.00	Nos	INR		0.00	0.00	INR Zero Only
268	Supply, Installation, Testing & Commissioning of distribution joint (Outdoor Unit). Make-LG	6.00	Nos	INR		0.00	0.00	INR Zero Only
269	BMS Controller	1.00	Nos	INR		0.00	0.00	INR Zero Only
270	Supply, installation, testing and commissioning of the following sizes Cu. refrigerant pipes duly insulated with 19mm/13mm close cell elastometric nitrile rubber insulation between each set of outdoor and indoor units (VRF) including cable tray, cover plate for outdoor area angle, supports etc as required a directed by engineer-In-charge. as per approved technical specification. Class O. Make-Rajco 41.3 mm outer dia with 19 mm thick insulation.	27.00	mtr	INR		0.00	0.00	INR Zero Only
271	38.1 mm outer dia with 19 mm thick insulation.	10.00	mtr	INR		0.00	0.00	INR Zero Only
272	34.9 mm outer dia with 19 mm thick insulation.	70.00	mtr	INR		0.00	0.00	INR Zero Only
273	28.6 mm outer dia with 19 mm thick insulation.	71.00	mtr	INR		0.00	0.00	INR Zero Only
274	15.9 mm outer dia with 9 mm thick insulation.	15.00	mtr	INR		0.00	0.00	INR Zero Only
275	Supply, installation, testing and commissioning of PVC pipe (For drainage of water from IDU, AHU) with 12 mm thick Nitrile Rubber insulation, clamp, supports etc as required.as per approved technical specification. 40 mm NB	15.00	mtr	INR		0.00	0.00	INR Zero Only
276	32 mm NB	40.00	mtr	INR		0.00	0.00	INR Zero Only
277	25 mm NB	40.00	mtr	INR		0.00	0.00	INR Zero Only
278	Supply, installation, testing & commissioning of Communication cabling between ODU and IDU including PVC HMS FRLS conduits etc as per OEM Specification. 2 core x 1 Sqmm FRLS	100.00	mtr	INR		0.00	0.00	INR Zero Only
279	Supply, installation, testing & commissioning of GSS ducting of following thickness including necessary supports, adjustable dampers, vanes etc complete as per IS 655/ as per approved technical specification.Make-Sail 18 Gauge GSS Ducting Site - fabricated	50.00	Sqmtr	INR		0.00	0.00	INR Zero Only
280	20 Gauge GSS Ducting Site - fabricated	60.00	Sqmtr	INR		0.00	0.00	INR Zero Only
281	22 Gauge GSS Ducting Site - fabricated	60.00	Sqmtr	INR		0.00	0.00	INR Zero Only

Item Wise BoQ

Tender Inviting Authority: ENGINEERING PROJECTS (INDIA) LTD., PCO Bhubaneswar

Name of Work: Tender for Execution of balance works in CCC building such as civil, sanitary & plumbing works, internal electrical works, ICT works & HVAC works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha

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1	2	4	5	12	7	13	14	15
282	24 Gauge GSS Ducting Site - fabricated	80.00	Sqmtr	INR		0.00	0.00	INR Zero Only
283	Supplying and fixing of acoustic lining of duct with Open Cell Nitrile Rubber density 140-180 Kg/m3. Applied by Adhesive, conforming to standard specification/as per approved technical specification. 10 mm thick open cell nitrile rubber .	25.00	Sqmtr	INR		0.00	0.00	INR Zero Only
284	Supply, installation, testing and commissioning of Thermal Insulation of Ducts with Closed cell elastomeric nitrile rubber insulation on duct surface area. The density of material shall be 40 to 60 kg/m3 fire rated for Class 0. Complete as per specifications and drawings etc.,as per approved technical specification. 19 mm Thick Al faced	45.00	Sqmtr	INR		0.00	0.00	INR Zero Only
285	Under Deck Insulation with 50 mm thk Themocole of density of the material shall be 20 kg/m3 as per approved technical specification.	700.00	Sqmtr	INR		0.00	0.00	INR Zero Only
286	Supplying, fixing, testing & commissioning of power coated extruded aluminium section supply air grills with volume control dampers complete as required.Make-System Air	20.00	Sqmtr	INR		0.00	0.00	INR Zero Only
287	Supplying, fixing, testing & commissioning of power coated extruded aluminium section return air grills with louvers without volume control dampers complete as required.	25.00	Sqmtr	INR		0.00	0.00	INR Zero Only
288	Supplying, fixing, testing & commissioning of power coated extruded aluminium section supply air diffusers with volume control dampers complete as required.	10.00	Sqmtr	INR		0.00	0.00	INR Zero Only
289	Supplying, fixing, testing & commissioning of power coated extruded aluminium section return air diffusers with louvers without volume control dampers complete as required.Make-System Air	11.00	Sqmtr	INR		0.00	0.00	INR Zero Only
290	Supplying, fixing, testing & commissioning of Firerated Canvass Connection	40.00	Nos	INR		0.00	0.00	INR Zero Only
291	Supplying, fixing, testing & commissioning of VCD for Duct	9.00	Sqmtr	INR		0.00	0.00	INR Zero Only
292	Supplying, fixing, testing & commissioning of Coller damper	4.00	Sqmtr	INR		0.00	0.00	INR Zero Only
293	Supplying, fixing, testing & commissioning of Louvers for Fresh Air arrangement	2.00	Sqmtr	INR		0.00	0.00	INR Zero Only
294	Supply, installation & testing of Duct mounted GI Fire Dampers with Actuators as per approved technical specification. as per direction of Engineer-in-charge.	4.00	Sqmtr	INR		0.00	0.00	INR Zero Only
295	Design, Supply, installation, testing & Commissioning of CO sensor including cabling at besement area for ventilation system integrating with ventilation fans, fire system etc as required to complete the job. as per approved technical specification, as per direction of Engineer-in-charge.	5.00	No	INR		0.00	0.00	INR Zero Only
Total in Figures						0.00	0.00	INR Zero Only
Quoted Rate in Figures						0.00	0.00	Zero Only
Quoted Rate in Words		INR Zero Only						