



AN ISO 9001 & 14001 COMPANY

## **TENDER DOCUMENT**

**NIT No: PCO/BBSR/806/170**

## **FOR**

Tender for Execution of miscellaneous works such as Civil & RCC works, Glazing work, Water proofing work, Sanitary & Plumbing works at RourkelaONE Project, Rourkela, Sundergarh Dist., Odisha (3<sup>rd</sup> Call)

## **VOLUME – III**

Price Bid

Item Wise BoQ

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

Name of Work: Tender for execution of miscellaneous works such as Concrete, water proofing, brick work & plastering, glazing, sanitary & plumbing works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha (3rd Call)

Contract No: PCO/BBSR/806/170 Dt. 03.05.2024

Name of the Bidder/ Bidding Firm / Company :								
<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
1	Providing and laying Brick work with fly ash bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in in 1:6 CM (1 cement : 6 coarse sand) including all tools and tackle as directed by engineer incharge with approved barand of cement.	90.00	Cum	INR		0.00	0.00	INR Zero Only
2	110 mm thick brick masonry with non modular fly ash bricks of class designation 7.5 in super structure above plinth and upto floor V level in all shapes and sizes in 1:4 CM including all tools and tackle as directed by engineer incharge with approved brand of cement.	250.00	Sqm	INR		0.00	0.00	INR Zero Only
3	Providing and applying cement plaster with 20 mm thick in CM 1:6 (1 cement: 6 coarse sand)	1000.00	Sqm	INR		0.00	0.00	INR Zero Only
4	Providing and laying in position cement concrete of specified grade using coarse aggregate and fine aggregate derived from natural sources Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete 1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	50.00	cum	INR		0.00	0.00	INR Zero Only
6	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform	500.00	Sqm	INR		0.00	0.00	INR Zero Only
8	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete  Concrete of M30 grade with minimum cement content of 350 kg /cum	100.00	cum	INR		0.00	0.00	INR Zero Only
9	Add for using extra cement in the items of design mix over and above the specified cement content therein.	33.00	Quintal	INR		0.00	0.00	INR Zero Only
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.  Thermo-Mechanically Treated bars of grade Fe-500D or more	9250.00	Kg	INR		0.00	0.00	INR Zero Only
12	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality Circular shape 560 mm internal diameter of HD 20	5.00	Each	INR		0.00	0.00	INR Zero Only

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

Name of Work: Tender for execution of miscellaneous works such as Concrete, water proofing, brick work & plastering, glazing, sanitary & plumbing works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha (3rd Call)

Contract No: PCO/BBSR/806/170 Dt. 02.05.2024

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13	Waterproofing work on basement roof non tower area at RourkelaONE project as per detail scope of work & technical specification furnished below SIKA/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-ro properties, to be applied in Min 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 she bonded to a high 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
14	Water Proofing on Terrace for various building of RourkelaONE project as per detail scope of work & technical specification furnished below with SIKA/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. Terrace Water Proofing: • Surface Preparation: Surface to be free from frost, surface laitance ar contamination free from loose aggregate or other sharp protrusions with fairly smooth finish to receive the waterproofing membrane. • 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 wir brushing followed water 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 approved bonding material to enhance adhesion between the packing material and other surfaces and Application of approved adhesive 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 adhesive 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. • System: Providing and Applying 1.5mm polyurethane membrane applied in one coat, pure polyurethane based, single component, low VOC, elastomeric, seamless waterproof membrane having following technical properties: ☐Elongation at break of 500-700% (ASTM D412-90) ☐Tensile strength (ASTM D412-90) >1.9 N/mm2 ☐Adhesion-in-peel test (N) (ASTM C836)- >60, ☐Recovery from 350% elongation (%) (ASTM D412-90) -95, ☐Initial hardness (Shore A) (ASTM 2240-86)-65, ☐Water permeability (DIN 1048)-Zero ☐Tear resistance (ASTM D624-00) 21N, ☐Water vapor transmission for 2.3mm film-0.6, ☐Capable of bridging substrate cracks up to 2mm, ☐Tack free time @ 25 °C-3hours, ☐Specific gravity-1.4, Solids content (%) -89, ☐Viscosity-160cps, ☐Service temperature (continuous ambient) -40°C to 70°C • when applied in one coat to achieve average WFT of 1.5 mm. Work shall be executed as by authorized Applicator. Application and methods shall be as per the manufacturer Specification	1350.00	Sqm	INR			0.00	0.00	INR Zero Only

Item Wise BoQ

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15	Waterproofing work on expansion joint as per detail scope of work & technical specification furnished below with SIKA/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. Expansion Joint: • Surface Preparation: All surfaces shall be dry and free from frost, surface laitance and contamination. Surfaces should be free from cavities and projecting nibs. • Baker Rod: Supply of Non-Absorbent, rot proof, Compressible, Closed Cell polyethylene foam baker rod of 20mm core dia to be laid as per manufacturer's specification. • 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. • System: Polysulphide Sealant: ▣ Apply by brush and allow it to dry for minimum 20 minutes. Apply two coats of primer at an interval of 30 minutes. After priming is over, sealants should be filled after 5 minutes and before 90 minutes. ▣ Sealant: Mixing the curing agent is to be poured in the tin with the base and mixed thoroughly with a slow speed electric mixer (300 to 450 rpm) for approximately 5 minutes until a homogeneous and uniformly grey colored material is obtained. ▣ Applying properly mixed Polysulphide based, joint sealant with in the Groove of 30mm X 15mm when the primer is tack free condition. ▣ Standards compliance ▣ ASTM C920-87, Type M, grade NS, Class 25. ▣ ISI12118 (PT 1&2) – 1987 ▣ British Standard BS:4254: 1983 • The Product should possess following Properties: ▣ Storage life: 12 months in original containers in dry conditions within the range room temperatures ▣ Solid content 100% ▣ Flash point 65°C ▣ Shore A Hardness (ASTM D 412), 16- 20; ▣ Pot life Min 2hrs at 25°C ▣ Tensile Strength at break, kg/cm2 (ASTM D 412), 3 – 5; ▣ Elongation at break, (%) (ASTM D 412), 500 – 600; ▣ Adhesion / Bond Strength, Kg/2.5 cm (BS 4254), 3 – 4; ▣ Plastic deformation, % (BS 4254), 15; ▣ Staining (BS 4254). No stain: 15	25.00	Sqm	INR		0.00	0.00	INR Zero Only
16	Water Proofing treatment in over head tank for various building of RourkelaONE project as per detail scope of work & technical specification furnished below with SIKA/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. Over Head Tank: • Construction/Starter joint Treatment: Providing and applying water swellable-basic polymer-hydrophilic water stoppers at all construction joints, water stoppers shall have unrestrained 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 water 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 Micro 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 waterproof 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 and 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 protective, 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 at break >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 Water Proofing treatment in underground water tank at RourkelaONE project as per detail scope of work & technical specification furnished below with SIKA/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	160.00	Sqm	INR		0.00	0.00	INR Zero Only
17	Water Proofing treatment in underground water tank at RourkelaONE project as per detail scope of work & technical specification furnished below with SIKA/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	250.00	Sqm	INR		0.00	0.00	INR Zero Only

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18	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : - 25 mm thick kota stone	200.00	Sqm	INR		0.00	0.00	INR Zero Only
19	Only Polishing of completed Kota stone flooring at site complete to provide smooth finish as per the direction of EIC complete. Including cost of all materials and machinery	200.00	Sqm	INR		0.00	0.00	INR Zero Only
20	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	150.00	Sqm	INR		0.00	0.00	INR Zero Only
21	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	150.00	Sqm	INR		0.00	0.00	INR Zero Only
22	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	100.00	Sqm	INR		0.00	0.00	INR Zero Only
23	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.	100.00	Sqm	INR		0.00	0.00	INR Zero Only
24	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 :	100.00	Sqm	INR		0.00	0.00	INR Zero Only
25	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 : (only Gypsum boards are available at site)	200.00	Sqm	INR		0.00	0.00	INR Zero Only
26	Providing & Fixing false ceiling at all heigt including providing and fixing of frame work made of special sections pwoer pressed from of Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer- in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	50.00	Sqm	INR		0.00	0.00	INR Zero Only

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1	2	4	5	12	7	13	14	15
27	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 cent 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, gril	100.00	Sqm	INR		0.00	0.00	INR Zero Only
28	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 GI 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 : 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.	150.00	Sqm	INR		0.00	0.00	INR Zero Only
29	CUBICAL PARTITION BOARD FOR TOILET FMRSCUBZMSZZSS00001 (HSN CODE: 48239019) BESCO CUBICLE ZMS SS Thickness of Compact Laminate : 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	20.00	Sqm	INR		0.00	0.00	INR Zero Only
30	Fixing WPC jali at all heights with providing and fixing necessary aluminium angle & square hollow section along with other fixing accessories as per drawing including all tools/tackels complete. (WPC Jali is available at site)	100.00	Sqm	INR		0.00	0.00	INR Zero Only
31	Providing & Fixing WPC jali at all height with providing and fixing necessary aluminium angle & square hollow section along with other fixing accessories as per drawing including all tools/tackels complete.	100.00	Sqm	INR		0.00	0.00	INR Zero Only
33	<b>Painting Works: Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :</b>  New work (two or more coats) over and including water thinnable priming coat with cement primer	1000.00	SQM	INR		0.00	0.00	INR Zero Only
34	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.	500.00	SQM	INR		0.00	0.00	INR Zero Only

**Item Wise BoQ**

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Name of Work: Tender for execution of miscellaneous works such as Concrete, water proofing, brick work & plastering, glazing, sanitary & plumbing works at RourkelaONE project, Rourkela, Sundergarh Dist., Odisha (3rd Call)

Contract No: PCO/BBSR/806/170 Dt. 02.05.2024

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1	2	4	5	12	7	13	14	15
35	Painting out side with UTTPL paint instead of stone cladding as per approved shade including all necessary equipment/tools/tackels etc. complete	500.00	SQM	INR		0.00	0.00	INR Zero Only
36	Painting with Ruff & Tuff Texture paint as per approved shade including all necessary equipment/tools/tackels etc. complete	200.00	SQM	INR		0.00	0.00	INR Zero Only
37	Design supply & installation of Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). Fittings of SS-316 Grade Steel of approved manufacturer with DGU glass panel having 6 mm thick clear toughened glass+12mm air gap + 6mm clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured Note: Aluminium members are available at site. It will be supplied to the selected vendor at a invoice rate.	100.00	Sqm	INR		0.00	0.00	INR Zero Only
38	Supply & installation of only DGU glass in the already partly executed Glazing system including realignment of aluminium members designed to withstand the wind pressure as per IS 875 (Part-III). Fittings of SS-316 Grade Steel of approved manufacturer with DGU glass panel having 6 mm thick clear toughened glass+12mm air gap + 6mm clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.	100.00	Sqm	INR		0.00	0.00	INR Zero Only
39	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in- Charge.	5.00	Sqm	INR		0.00	0.00	INR Zero Only
40	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 comolete as per the instruction of EIC.	25.00	Sqm	INR		0.00	0.00	INR Zero Only
41	Provoding & fixing Aluminium Louvers at External face . The scope include preperation & submission of fabrication drawing to Client for taking approval prior to start execution.	30.00	Sqm	INR		0.00	0.00	INR Zero Only
42	45mm thick composite metal fire doors of 120 minutes (2 HRs) Fire rating Door Frame: Double/Single Rebate profile of size 100mmX60mm made out of 1.20 mm thick galvanized steel sheets, finally finished with stove zinc chromate (etvjed "H") primer coating with anti-corrosive pure polyester thermosetting polyurethane alphatic grade not less than 120 micron paint of approved colour/shade LIGHT GREY (RAL7035) Door Shutter : 46mm thick door leaf shall be manufactured from 0.80 mm thick galvanized steel sheets finished with weld less lock seam joints for a dent free , seamless finish with fire rated infill material for 120 min fire resistant rating conforming to BS: 476 part 22 & IS-3614 part-II also GI steel sheet with lock seam joints at site edges and internal reinforcement at top, bottom and side edges for fire rating. Finally finished with stove zinc chromate ( etches "H") primer coating , with anti-corrosive pure polyester thermosetting polyurethane alphatic grade 120 MICRON paint of approved colour/shade- LIGT GREY (RAL-7035), the door leaf and frame shall have passed minimum 250 hours of salt spray test. Fire rated doors are designed to cease the spread of fire in most critical conditions in commercial & industrial spaces. These doors are tested and certified to the highest Indian standards and are available with the fire retardancy of 120 mins as per IS 3614, Part2 1996 and BS476 , 20&22 standards. They are tested to withstand extreme conditions for longer duration to ensure complete safety.	18.00	Sqm	INR		0.00	0.00	INR Zero Only
44	<b>Plumbing &amp; Sanitary Fittings</b> Supply & fixing Wash Basin ( 480X480X200mm) model No. Flair C0465 along with all necessary fixing arrangement, labour, tools & tackels etc. complete	25.00	EACH	INR		0.00	0.00	INR Zero Only
45	Supply & fixing wall hung Wash Basin for Handicapped Toilet parryware make model No. DIS-WHT -93801 along with all necessary fixing arrangement, labour, tools & tackels etc. complete	4.00	EACH	INR		0.00	0.00	INR Zero Only

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Contract No: PCO/BBSR/806/170 Dt. 02.05.2024

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1	2	4	5	12	7	13	14	15
46	Supply & fixing Basin Mixer Jaquar make model No. FLR-5001B along with all necessary fixing arrangement, labour, tools & tackels etc. complete	4.00	EACH	INR		0.00	0.00	INR Zero Only
47	Supply & fixing Sink Mixer Jaquar make & model No. FUS-29173B along with all necessary fixing arrangement, labour, tools & tackels etc. complete	20.00	EACH	INR		0.00	0.00	INR Zero Only
48	Supply & fixing Waste coupling 100 mm size ALD-705 for basin along with all necessary fixing arrangement, labour, tools & tackels etc. complete	22.00	EACH	INR		0.00	0.00	INR Zero Only
49	Supply & fixing Bottle Trap Jaquar make & model no. ALD-769 L 250X190 mm along with all necessary fixing arrangement, labour, tools & tackels etc. complete	22.00	EACH	INR		0.00	0.00	INR Zero Only
50	Supply & fixing waste pipe for basin along with all necessary fixing arrangement, labour, tools & tackels etc. complete	22.00	EACH	INR		0.00	0.00	INR Zero Only
51	Supply & fixing EWC Commode parryware make model no. C0207NXT along with all necessary fixing arrangement, labour, tools & tackels etc. complete	18.00	EACH	INR		0.00	0.00	INR Zero Only
52	Supply & fixing EWC Commode (For Handicapped ) along with all necessary fixing arrangement, labour, tools & tackels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
53	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 & tackels etc. complete	20.00	EACH	INR		0.00	0.00	INR Zero Only
55	Supply & fixing Toilet paper Holder model no. CAN-1153S & ALD-805B long braided hose 450mm along with all necessary fixing arrangement, labour, tools & tackels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
56	Supply & fixing Geyser (25 ltr) along with all necessary fixing arrangement, labour, tools & tackels etc. complete	10.00	EACH	INR		0.00	0.00	INR Zero Only
57	Supply & fixing Mirrors of size (800mmX2465 mm)	5.00	EACH	INR		0.00	0.00	INR Zero Only
58	Supply & fixing Mirrors of size (600mmX800mm)	2.00	EACH	INR		0.00	0.00	INR Zero Only
59	Supply & fixing Mirrors of size (760mmX1300 mm)	1.00	EACH	INR		0.00	0.00	INR Zero Only
60	Supply & fixing Mirrors of size (800mmX880mm)	1.00	EACH	INR		0.00	0.00	INR Zero Only
61	Supply & fixing Mirrors of size (800mmX895mm)	3.00	EACH	INR		0.00	0.00	INR Zero Only
62	Supply & fixing Mirrors of size (800mmX800mm)	1.00	EACH	INR		0.00	0.00	INR Zero Only
63	Supply & fixing Mirrors of size (3015mmX800mm)	12.00	EACH	INR		0.00	0.00	INR Zero Only
64	Supply & fixing Soap Dispencers jaquar make & model no. CAN-1137N along with all necessary fixing arrangement, labour, tools & tackels etc. complete	12.00	EACH	INR		0.00	0.00	INR Zero Only
65	Supply & fixing Towel Rings jaquar make & model no. AES-1121N along with all necessary fixing arrangement, labour, tools & tackels etc. complete	22.00	EACH	INR		0.00	0.00	INR Zero Only
66	Supply & fixing PVC Connection Pipe 24" along with all necessary fixing arrangement, labour, tools & tackels etc. complete	35.00	EACH	INR		0.00	0.00	INR Zero Only



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1	2	4	5	12	7	13	14	15
67	Supply & fixing Floor Trap cromium plated 5" dia along with all necessary fixing arrangement, labour, tools & tackels etc. complete	52.00	EACH	INR		0.00	0.00	INR Zero Only
68	Supply & fixing Two way Bib cock jaquar make model no. FLR-5041N along with all necessary fixing arrangement, labour, tools & tackels etc. complete	25.00	EACH	INR		0.00	0.00	INR Zero Only
69	Supply & fixing Health Faucet model no. ALD 579 of Jaquar make for EWC along with all necessary fixing arrangement, labour, tools & tackels etc. complete	25.00	EACH	INR		0.00	0.00	INR Zero Only
70	Supply & fixing Urinal Push Cock model no. PRS-077 along with all necessary fixing arrangement, labour, tools & tackels etc. complete	15.00	EACH	INR		0.00	0.00	INR Zero Only
71	Supply & fixing Shower OHS -1989 4" dia along with all necessary fixing arrangement, labour, tools & tackels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
72	Supply & fixing Stainless Steel Kitchen sink (24X18") along with all necessary fixing arrangement, labour, tools & tackels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
73	Supply & fixing Sink Coupling along with all necessary fixing arrangement, labour, tools & tackels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
74	Supply & fixing Drain pipe along with all necessary fixing arrangement, labour, tools & tackels etc. complete	6.00	EACH	INR		0.00	0.00	INR Zero Only
75	Supply & fixing Sink cock with mixture make jaquar make & model No. FLR-5217N along with all necessary fixing arrangement, labour, tools & tackels etc. complete	4.00	EACH	INR		0.00	0.00	INR Zero Only
76	Supply & fixing sink cock jaquar make model no. FLR-5347N along with all necessary fixing arrangement, labour, tools & tackels etc. complete	2.00	EACH	INR		0.00	0.00	INR Zero Only
77	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 & tackels etc. complete	5.00	EACH	INR		0.00	0.00	INR Zero Only
78	Crutch for wall mixture along with all necessary fixing arrangement, labour, tools & tackels etc. complete	2.00	EACH	INR		0.00	0.00	INR Zero Only
79	Telephone Shower along with all necessary fixing arrangement, labour, tools & tackels etc. complete	2.00	EACH	INR		0.00	0.00	INR Zero Only

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80	Supply & fixing Hand Drier Jaquar make & model No. HDR-WHT-M14A along with all necessary fixing arrangement, labour, tools & tackels etc. complete	4.00	EACH	INR		0.00	0.00	INR Zero Only
82	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
83	25 mm nominal dia Pipes	35.00	MTR	INR		0.00	0.00	INR Zero Only
84	32 mm nominal dia Pipes	40.00	MTR	INR		0.00	0.00	INR Zero Only
85	40 mm nominal dia Pipes	30.00	MTR	INR		0.00	0.00	INR Zero Only
86	50 mm nominal dia Pipes	25.00	MTR	INR		0.00	0.00	INR Zero Only
87	65 mm nominal dia Pipes	30.00	MTR	INR		0.00	0.00	INR Zero Only
88	80 mm nominal dia Pipes	30.00	MTR	INR		0.00	0.00	INR Zero Only
90	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	100.00	MTR	INR		0.00	0.00	INR Zero Only
92	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : all complete as per specification and direction of Engineer-in-charge.  20 mm	3.00	NOS	INR		0.00	0.00	INR Zero Only
93	25 mm	7.00	NOS	INR		0.00	0.00	INR Zero Only

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94	32 mm	7.00	NOS	INR		0.00	0.00	INR Zero Only
95	40 mm	7.00	NOS	INR			0.00	INR Zero Only
96	50 mm	8.00	NOS	INR		0.00	0.00	INR Zero Only
97	65 mm	2.00	NOS	INR		0.00	0.00	INR Zero Only
98	80 mm nominal dia Pipes	2.00	NOS	INR		0.00	0.00	INR Zero Only
100	Providing and fixing gun metal non- return valve of approved quality (screwed end) : 65 mm nominal bore	2.00	NOS	INR		0.00	0.00	
101	80 mm nominal bore	2.00	NOS	INR		0.00	0.00	INR Zero Only
103	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) : 80 mm dia nominal bore	2.00	NOS	INR		0.00	0.00	INR Zero Only
105	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS :2373 : 80 mm dia	2.00	NOS	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						