



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

No. AAI/CLT/DGM/ENGG-C/AOCC/2022-23 / 662

दिनांक Date: 16.02.2023

सेवा में To

By Hand /Fax

By Reg. post with A/D

मेसर्स टीएटीआई कंस्ट्रक्शन (पी) लिमिटेड/M/s. TATI Construction (P) Ltd,

3/1010 एनपीएम कॉम्प्लेक्स/3/1010 NPM Complex

बाईपास रोड, कोंडोट्टी/ Bypass Road, Kondotty

केरल - 673 638/ Kerala - 673 638

कार्य का नाम /Name of Work: कालीकट अंतरराष्ट्रीय हवाई अड्डे पर नए एओसीसी कक्ष का निर्माण।
Construction of new AOCC room at Calicut international Airport.

संदर्भ Ref.: 1). टेंडर सं Tender ID No- 2022_AAI_138958

2). दिनांक 02.02.2023 को खुला हुआ आपका टेंडर Your Tender opened on DT:
02.02.2023

महोदय Sir,

- 1) ऊपर उल्लिखित कार्य के लिए आपकी निविदा, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से, आपके द्वारा उद्धृत मद दरों पर ₹ 2086540/- (जीएसटी को छोड़कर) (रुपये बीस लाख छियासी हजार पांच सौ चालीस) पर स्वीकार की जाती है। संलग्न मात्रा की अनुसूची के अनुसार, जो कि अनुमानित लागत ₹ 2010936/- की अनुमानित लागत से 3.75% ऊपर है। Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to ₹ 2086540/- (Excluding GST) (Rupees Twenty lakhs Eighty Six Thousand Five Hundred and Forty Only) as per the schedule of Quantities attached, which is 3.75 % Above the estimated cost put to tender of ₹ 2010936/-
- 2) उप. महा प्रबंधक (इंजी-सिविल)/व.प्रबंधक (इंजी-सिविल), भा.वि.प्रा, कालीकट अंतरराष्ट्रीय हवाई अड्डा, कालीकट कार्य का अभियंता प्रभारी होगा। आपसे अनुरोध है कि उप. महा प्रबंधक इंजीनियरिंग [सिविल] भा. वि. प्रा, कालीकट अंतरराष्ट्रीय हवाई अड्डे कार्यालय में 18.03.2023 तक हस्ताक्षर करने और अनुबंध समझौते को पूरा करने के लिए उपस्थित हों। ठेका अनुबंध 200.00 रुपये (केवल दो सौ रुपये) के गैर-न्यायिक स्टाम्प पेपर पर निष्पादित किया जाएगा और स्टाम्प पेपर की लागत आपके द्वारा वहन की जाएगी। **Dy.Gen.Manager-Engg[C], AAI, Calicut Intl. Airport, Calicut, shall be the Engineer – in- charge of the work. You are requested to attend the office of Dy. Gen. Manager Engg [C], AAI, Calicut Intl. Airport by 18.03.2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.200.00 (Rupees Two Hundred only) and the cost of the stamp paper shall be borne by you.**

1 | Page
कालीकट अंतरराष्ट्रीय हवाई अड्डा
Calicut International Airport

कालीकट हवाई अड्डा (डा.घ),
Calicut Airport (P.O),



केरल-673647
Kerala-673647

दूरभाष/Phone : 0483-2711 325
फैक्स/Fax : 0483-2711 406

- 3) कृपया इस पत्र के जारी होने के 10 दिनों के भीतर सुरक्षा जमा के रूप में ₹208654.00 (दो लाख आठ हजार छह सौ चौवन) जमा करें, ऐसा न करने पर, पृष्ठ अनुबंध दस्तावेज़ का GCC-16 पर शर्त खंड 1 ए के अनुसार काट लिया जाएगा। | Please deposit ₹208654.00 (Rupees Two Lakhs Eight Thousand Six Hundred and Fifty Four Only) towards Security Deposit within 10 days after the date of issue of this letter, failing which, the same will be deducted as per Condition Clause 1 A on page GCC-16 of the contract document.
- 4) आपसे अनुरोध है कि ठेका श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 और केंद्र और राज्य सरकारों के न्यूनतम मजदूरी अधिनियम और उसके नियमों के प्रावधानों का पालन करें। You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central rules 1971 and minimum wages act and rules thereof Central and State Governments.
- 5) आपको तुरंत प्रबंधक इंजीनियरिंग-(सिविल) से संपर्क करने का भी निर्देश दिया जाता है, जो आपको साइट सौंपने की व्यवस्था करेगा। You are also directed to contact **Manager [Engg-Civil]**, immediately who will arrange to hand over the site to you.
- 6) कृपया ध्यान दें कि कार्य करने के लिए अनुमत समय 04 (चार) महीने होगा और इसकी गणना इस पत्र के 15वें दिन से की जाएगी। Please note that the time allowed for carrying out the work shall be **04 (Four) Months** and same shall be reckoned from the **15th day issue of this letter**.
- 7) अनुबंध के संबंध में कोई और पत्राचार सामान्य रूप से प्रभारी अभियंता को संबोधित किया जाना चाहिए। Any further correspondence in connection with the contract should normally be addressed to the Engineer – in –charge.
- 8) कृपया रसीद की पावती दें और इसके साथ संलग्न इस पत्र की डुप्लीकेट प्रति हस्ताक्षर करने के बाद अधोहस्ताक्षरी को स्वीकृति के प्रतीक के रूप में लौटा दें। Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

भवदीय Yours faithfully,

संलग्न Encl: BOQ 5 Pages

उप महाप्रबंधक इंजी(सिविल) **Dy.Gen.Manager Engg (C)**

भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डा **AAI, Calicut Intl Airport**

अध्यक्ष की ओर से **On behalf of Chairman**

Note :In case of any discrepancy English version will be treated as valid.

Validate Print Help

Item Rate SOQ

Tender Inviting Authority: <Bid Manager, O/o HOD [Civil], Engineering Wing, Calicut Airport , AAI, Calicut Intl. Airport-673647 >

Name of Work: <Construction of new AOCC Room at Calicut international airport Airport.>

Contract No: <2022_AAI_138958>

Name of the Bidder/ Bidding	TATI CONSTRUCTION PRIVATE LIMITED							
PRICE SCHEDULE (This SOQ 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)								
NUMBER	TEXT #	TEXT	NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	20	Item Code / Make	Quantity	Units	Estimated Rate in Rs. P	BASIC RATE Excluding GST In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P Excluding GST	TOTAL AMOUNT In Words (Excluding GST)
1	2	3	4	5	6	7	8	10
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.		4.50	cum		300.00	1350.00	INR One Thousand Three Hundred & Fifty Only
2	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Ordinary rock		4.50	cum		600.00	2700.00	INR Two Thousand Seven Hundred Only
3	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 natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)		8.00	cum		8500.00	68000.00	INR Sixty Eight Thousand Only
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)		7.00	cum		6000.00	42000.00	INR Forty Two Thousand Only
5	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete.		5.50	sqm		400.00	2200.00	INR Two Thousand Two Hundred Only
6	Centering and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantile		30.00	sqm		650.00	19500.00	INR Nineteen Thousand Five Hundred Only
7	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level. Thermo Mechanically Treated bars of grade Fe-500D or more.		850.00	kg		95.00	80750.00	INR Eighty Thousand Seven Hundred & Fifty 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. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level Concrete of M30 grade with minimum cement content of 350 kg /cum		5.50	cum		9500.00	52250.00	INR Fifty Two Thousand Two Hundred & Fifty Only
9	Add for using extra cement in the items of design mix over and above the specified cement content therein.		2.10	quintal		800.00	1680.00	INR One Thousand Six Hundred & Eighty Only

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1	2	3	4	5	6	7	8	10
10	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		22.00	sqm		1000.00	22000.00	INR Twenty Two Thousand Only
11	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.		2.00	each		2000.00	4000.00	INR Four Thousand Only
12	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 250x10 mm		6.00	each		120.00	720.00	INR Seven Hundred & Twenty Only
13	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125mm		6.00	each		100.00	600.00	INR Six Hundred Only
14	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper		2.00	each		50.00	100.00	INR One Hundred Only
15	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete Hot finished welded type tubes		450.00	kg		140.00	63000.00	INR Sixty Three Thousand Only
16	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works		120.00	kg		150.00	18000.00	INR Eighteen Thousand Only
17	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		60.00	sqm		1100.00	66000.00	INR Sixty Six Thousand Only
18	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm		2.20	sqm		1200.00	2640.00	INR Two Thousand Six Hundred & Forty Only
19	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 : 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)		65.00	sqm		1300.00	84500.00	INR Eighty Four Thousand Five Hundred Only
20	12 mm cement plaster: 1:4 (1 cement : 4 fine sand)		67.00	sqm		300.00	20100.00	INR Twenty Thousand One Hundred Only
21	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)		60.00	sqm		350.00	21000.00	INR Twenty One Thousand Only

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1	2	3	4	5	6	7	8	10
22	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work		120.00	sqm		150.00	18000.00	INR Eighteen Thousand Only
23	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.		120.00	sqm		120.00	14400.00	INR Fourteen Thousand Four Hundred Only
24	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)		15.00	cum		2000.00	30000.00	INR Thirty Thousand Only
25	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge.		1.00	cum		3500.00	3500.00	INR Three Thousand Five Hundred Only
26	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm		70.00	sqm		250.00	17500.00	INR Seventeen Thousand Five Hundred Only
27	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed Structural glazing, ACP and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.		110.00	sqm		100.00	11000.00	INR Eleven Thousand Only
28	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.		7.00	sqm		1400.00	9800.00	INR Nine Thousand Eight Hundred Only
29	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid		1.00	each		5100.00	5100.00	INR Five Thousand One Hundred Only
30	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps		1.00	each		4900.00	4900.00	INR Four Thousand Nine Hundred Only
31	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm		1.00	each		900.00	900.00	INR Nine Hundred Only
32	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms		1.00	each		800.00	800.00	INR Eight Hundred Only
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 25 mm nominal dia Pipes		25.00	meter		500.00	12500.00	INR Twelve Thousand Five Hundred Only
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm nominal dia Pipes		12.00	meter		1300.00	15600.00	INR Fifteen Thousand Six Hundred Only
35	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 100 mm nominal dia Pipes		17.00	meter		3200.00	54400.00	INR Fifty Four Thousand Four Hundred Only
36	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore		1.00	each		1300.00	1300.00	INR One Thousand Three Hundred Only
37	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5		1.00	each		20000.00	20000.00	INR Twenty Thousand Only

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1	2	3	4	5	6	7	8	10
38	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		27.00	kg		600.00	16200.00	INR Sixteen Thousand Two Hundred Only
39	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)		22.00	kg		650.00	14300.00	INR Fourteen Thousand Three Hundred Only
40	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides		2.00	sqm		1400.00	2800.00	INR Two Thousand Eight Hundred Only
41	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)		2.50	sqm		1500.00	3750.00	INR Three Thousand Seven Hundred & Fifty Only
42	Design , supply and fixing structural glazing system consisting of powder coated aluminium and glass of approved make , aluminium frame work fabricated out of heavy duty aluminium extruded profile powder coated with durable thermo setting polyester powder coating by electrostatic spraying and hard stoved is not less than 60 micron thickness to comply with BIS 6496:1994(1991) and AAMA 2603-98 standard as per approved shade. All aluminium members and profile shall be of AC-25 grade as specifications. The aluminium members shall be protected with protection tapes all around the profile for safety against external scratches at site. (protection tape shall be removed only at a time of handing over as per the instruction of project management) The anchoring/ bracing of the glazing to the RCC slabs / beams / columns shall be done with required number of non corrosive galvanized extended brackets of approved design (galvanizing to be done conforming to IS:4759-1996 up to 610 gms per sqm , 80-90 microns thickness) with approved dash fasteners of the minimum 12 mm dia and depth of minimum 100 mm , in the concrete and stainless steel bolts including providing and fixing aluminium of various thickness to adjust the beam level and line variation. The anchoring system has been design to with stand the dead load of structural wall as well as stresses due to wind pressure etc. The glazing frame shall be aligned for each vertical mullion for the entire height and each transom for the entire width horizontally by laser beam equipment to ensure 100% x axis and y axis alignment. to make the joint water and air tight the glazing frame work provided with approved in built ventilation and drainage system. all the joints of structural glazing system and periphery , of glass shall be properly sealed with specified weather silicon. the details of in built ventilation and drainage system should be submitted by the contractor before execution. EPDM gaskets of suitable profile to accommodate glasses in all vision EPDM gaskets of suitable profile to accommodate glasses in all vision area shall be provided at all glazing area to make the glazing water and areas shall be provided at all glazing area to make the glazing water and air tight. including the glass to be fixed at the outer side of the aluminium frame with structural silicon sealant (SG 18/ DC995) and mechanical support with pressure plates and cover plates (the structural silicon bite size shall not be less than 8 mm / as per the structural requirements as per manufactures recommendation.) expansion joints gap for mullion shall be minimum 15 to 20 mm to be provided where ever required , filled with expansion joints sealant from wackert , dow corning DC 789/ Sikka or equivalent. All screws , washers used shall be only stainless steel 316 grades etc.. complete as per direction of EIC. (The execution agency has to design and to submitted shop drawing and mock up based on same which have to be approved by EIC before start of work.)(1) Mullion & transoms , extruded aluminium section shall be of 6063-T6 alloy to be as per structural calculation of jindal/ Bhuraka or approved equivalent (2) coating of aluminium section will be powder coated with durable thermosetting polyester powder coating by electrostatic spraying and hard stoved to not less than 60 micron standard of approved shade as per direction of EIC.(3) Heavy duty , best quality EPDM gaskets at joints and connection between aluminium members.(4) all components should be sealed and water proofing membrane with internal and external aluminium flashing finished to approval. curtain wall should be seal to hoist structures and allow movements etc. in its service life. item includes cost of supplying , installation and fixing of aluminium frame with structural members , mullions , transoms , sub frame , fixtures etc. including supply installation and fixing glass including cost of sealant , brackets, fasteners, screws, sleeves, spacers tape, backer rods, bolts, gaskets, fixtures, scaffolding at all height, etc. complete in all respect. (the work is to be carried out by specialized agency approved by EIC.) aluminium sections (mullions and transoms) weight considered for the system is 10.00kg/ sqm.(a) Hermetically sealed DGU system shall be fixed at 1 st floor consisting of 6 mm thick dark blue/ super silver blue high performance toughened glass +12 mm air gap +6mm thick clear toughened glass as per specification fixed in a precise size on the outer infill panel of make saint gobain/ asahi/ emirates glass or equivalent , high performance glass U value -1.5 to 2.0 Watt/ m2K, SF -0.02 to 0.25 & VLT-35-45% etc.		90.00	sqm		12900.00	1161000.00	INR Eleven Lakh Sixty One Thousand Only
43	Add or deduct for using aluminium extruded section of approved quality I/c powder coating against structural glazing Item. Exclusively for mullions and transoms if required as per the structural designs directed by the engineer- in- charge.(The rate shall be applicable only for the quantity of aluminium excess or less from the sections already stipulated		30.00	kg		310.00	9300.00	INR Nine Thousand Three Hundred Only

Sl. No.	20	Item Code / Make	Quantity	Units	Estimated Rate in Rs. P	BASIC RATE Excluding GST In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P Excluding GST	TOTAL AMOUNT in Words (Excluding GST)
1	2	3	4	5	6	7	8	10
44	Providing and laying in position dressed laterite stone (compressive strength not less than 32 kg/cm2) stone masonry with cement mortar 1:6 (1 cement: 6 coarse sand) including dressing of sides etc complete above plinth level upto floor V level as per the direction of engineer -in-charge.		5.00	cum		5000.00	25000.00	INR Twenty Five Thousand Only
45	Providing and laying in position dressed laterite stone (compressive strength not less than 32 kg/cm2) stone masonry with cement mortar 1:6 (1 cement: 6 coarse sand) including dressing of sides etc complete as per the direction of engineer -in-charge. upto plinth level.		9.00	cum		5000.00	45000.00	INR Forty Five Thousand Only
46	Providing and fixing of fostered film/etchin of approved make including cutting the film to the required size, pasting the film on glass without any air bubbles at all heights complete as per the direction of the engineer in charge. The rate shall be inclusive of material, labour, wastage,transportation etc.		2.30	sqm		2000.00	4600.00	INR Four Thousand Six Hundred Only
47	Providing and fixing 100mm brass lock (best make of approved quality) for aluminium doors including necessary cutting and amking goods etc complete		3.00	each		1500.00	4500.00	INR Four Thousand Five Hundred Only
48	Providing and fixing Health faucet (Jaguar) or approved equivalent as per the direction of Engineer in charge.		1.00	each		1700.00	1700.00	INR One Thousand Seven Hundred Only
49	Supplying of angle cock of CP brass of Jaguar or equivalent as per the direction of Engineer in Charge		4.00	each		1400.00	5600.00	INR Five Thousand Six Hundred Only
Total in Figures							2086540.00	INR Twenty Lakh Eighty Six Thousand Five Hundred & Forty Only
Quoted Rate in Words		INR Twenty Lakh Eighty Six Thousand Five Hundred & Forty Only						