



**INDIAN INSTITUTE OF TECHNOLOGY GOA GEC
CAMPUS, FARMAGUDI, PONDA, GOA, 403401**

**TENDER DOCUMENT FOR ANNUAL MAINTENANCE
CONTRACT OF CIVIL & HORTICULTURE WORKS AT IIT GOA,
FARMAGUDI, PONDA, GOA.**

NIT: IITGOA/C&EMD/2021/025 DT.24-12-2021



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PART A (TECHNICAL BID)

1. NOTICE INVITING TENDER

1.1 INTRODUCTION

Indian Institute of Technology (IIT) Goa, invites sealed tenders from the eligible contractors for various civil related maintenance and repair works of 1) Administration building 2) Offices 3) Academic Blocks 4) Classrooms 5) Laboratories 6) PG Block 7) Faculty Cabins 8) Central Library 9) Director's Bungalow 10) Mahalaxmi Bungalow 11) Portable Cabins 12) Workshop 13) Medical Dispensary 14) D-2/C Quarters 15) Raj Mudra & Tarangan Building Flats 16) 640 capacity hostel premises,

1.2 PARTICULARS

1.NIT No	IITGOA/C&EMD/2021/025
2.Name of work	Annual Maintenance Contract- Civil& Horticulture Works
3.Location of work	1) Administration building 2) Offices 3) Academic Blocks 4) Classrooms 5) Laboratories 6) PG Block 7) Faculty Cabins 8) Central Library 9) Director's Bungalow 10) Mahalaxmi Bungalow 11) Portable Cabins 12) Workshop 13) Medical Dispensary 14) D-2/C Quarters 15) Raj Mudra & Tarangan Building Flats 16) 640 capacity hostel premises. Particulars of the work are as follows
4.Estimated Cost (Including GST)	Rs. 20,87,547/- (Rs. 18,53,163/- for Civil works + Rs. 2,34,384/- for Horticulture works)
5.Earnest Money Deposit	EMD not applicable, bidders have to submit signed " Bid Security Declaration " on the letter head of the firm as given in Annexure-A.
6.Performance Guarantee	3% of Work order value
7. Security deposit	5% of the completed amount.
8.Contract Period	One year from date of issue of work order.
9.Tender Basis and Mode	Two Stage (Technical Bid & Financial Bid)
10.Mode of Payment to IITG	Demand Draft/ Bank Guarantee in favour of IIT Goa Main Account payable at Goa. (Cheques will not be accepted)



11. Date, Time & Venue of Prebid meeting	31-12-2021 at 11.00 hrs at C&EMD Office, IIT Goa
12. Closing Date & Time of Receiving of bids.	07-1-2022 at 15.00 hrs
13. Date & Time of opening of Technical Bid	07-1-2022 at 15.30 hrs at C&EMD Office, IIT Goa
14. Date & Time of opening of Financial Bid.	Will be intimated to qualified agencies.
15. Address of tender issue, submission and opening	Tender documents will be available on the site as stated: https://www.iitgoa.ac.in (Under tender Section). Tender submission & opening place: C& EMD OFFICE, IIT GOA
16. Website for full and updated information.	https://www.iitgoa.ac.in (Under tender Section).

**Sd/-
Registrar
IIT Goa**



1.3 ELIGIBILITY CRITERIA

- 1.3.1** The bidder must be registered in appropriate class of works with Government. Organization like CPWD/ PWD/ MES /PSUs/Reputed Private Firms or those having experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization or having experience in execution of similar works in any reputed private firms.
- 1.3.2** The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost or 2 (TWO) similar works for projects each of value 60% of the estimated cost or 3(THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization or reputed Pvt. Organisations during last 7 (seven) years preceding last date of the month of tender submission or having experience in execution of similar works. In case of private works, the same shall be supported by TDS certificate for the work under consideration along with the document of having satisfactorily completed the above work to the satisfaction of Engineer-in -Charge.

Note:

- (i) The estimated cost is Rs. 20,87,547/- (Rupees Twenty Lakhs Eighty Seven Thousand Five Hundred and Forty Seven Only).
- (ii) Similar works shall mean: Building works/ maintenance of Civil ,PH & Horticulture works
- 1.3.3** The bidder must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.
- 1.3.4** The registrations and licenses should be valid during the execution phase.
- 1.3.5** A Certificate/ Undertaking on the letter head of the company to the effect that the bidder/ Manufacturer has not been blacklisted anywhere in India or abroad by any organization. A self- certification to this effect is required to be enclosed as given in ANNEXURE-B
- 1.3.6** Average annual turnover for the last three years of the bidder as per ITCC or profit & loss statement shall not be less than the estimated cost (i.e. Rs. 20,87,547/-).
- 1.3.7** The agencies should enclose the Xerox copies of the following;
- Performance certificate.
 - GST Registration.
 - PAN
 - EPFO Registration Certificate.
 - ESIC Registration Certificate.
 - Work order copy and completion certificate from the client as per the criteria 1.3.2
 - TDS Certificate in support of private works as per criteria 1.3.2 along with work order copy and completion certificate.



- h) Registration under CPWD/PWD/MES/PSU & Others.
- i) Average Annual turnover for the last three years duly certified by CA.

2. INFORMATION TO BIDDERS

2.1 SCOPE OF WORK

- 2.1.1** IIT Goa invites tender for Annual Civil Maintenance & repair works of IIT Goa of 1) Administration building 2) Offices 3) Academic Blocks 4) Classrooms 5) Laboratories 6) PG Block 7) Faculty Cabins 8) Central Library 9) Director's Bungalow 10) Mahalaxmi Bungalow 11) Portable Cabins 12) Workshop 13) Medical Dispensary 14) D-2/C Quarters 15) Raj Mudra & Tarangan Building Flats 16) 640 capacity hostel premises.
- 2.1.2** The contractor shall arrange to provide service on Saturdays, Sundays and other holidays in case of emergency as required by the Engineer in Charge, failing which penal recovery shall be made, decision of Engineer in Charge will be final.
- 2.1.3** The contractor shall provide a supervisor for supervising all the works carried out. The minimum qualification should be Diploma.
- 2.1.4** The complains received by the contractor during normal working hours should be attended to, at the shortest possible time.
- 2.1.5** The contractor shall provide daily report stating the nature of complaints/ work done, to the Engineer in Charge or authorized representative daily in the format.
- 2.1.6** The contractor shall provide & maintain a triplicate book for receiving the job/complaint order from Engineer in Charge Daily in the approved format.
- 2.1.7** Each job is identified as following category based on its priority.
A - Normal (3 Working Days)
B - Urgent (1 Working Day)
Penal recovery as under shall be made for delay in execution of work:
A- Normal - Rs. 200.00 / Day
B- Urgent - Rs. 500.00/ Day
Decision of the Engineer in charge shall be final for deciding the job as A or B Category before allotting the job.
- 2.1.8** All the replaced items must be stored in the store room as specified by the Engineer in charge.
- 2.1.9** No debris shall be left over during the repair works under each item on any day. An area for 'Debris bins' will be identified on the request of contractor for collection of debris generated on day to day basis. The Debris from debris bin shall be cleared every month. The contractor must maintain adequate number of wheel barrows all the time for shifting the debris to Debris bin.
- 2.1.10** Minimum labour strength and adequate material stored to be maintained on regular basis as under:



- a) Carpenter = 1 no.
- b) Plumber = 1 no.

2.1.11 Police Verification Certificate of all workers shall be obtained by Contractor.

2.2 GENERAL INSTRUCTIONS

2.2.1 Bidding documents are to be obtained electronically through websites: <https://www.iitgoa.ac.in> (Under tender Section). The tender fee in the prescribed mode must accompany the tender documents issued electronically at the time of submission.

2.2.2 This bid document shall be read in conjunction with GCC (General Conditions of Contract) laid down in the CPWD manual and the applicable specifications of CPWD.

2.2.3 **The bidder shall visit and inspect the site and obtain all information at his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender.** No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.

2.2.4 The water required for the work shall be arranged by the agency whereas electricity will be provided by IIT Goa.

2.2.5 All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.

2.2.6 Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private organizations for whom such works have been executed shall also be accepted.

2.2.7 The bidding document (consisting of the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any), Corrigendum, Clarifications to Pre-bid queries can be downloaded from the website: <https://www.iitgoa.ac.in> (Under tender Section) Corrigendum, if any shall be published only on this website. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever.

2.2.8 All costs, charges & expenses that may be incurred in connection with the preparation of the tender shall be borne by contracting agency and the Institute accepts no liability whatsoever therefore.

2.2.9 **Rates quoted by the bidders shall be inclusive of labour charges, GST (Goods and Services Tax -Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.**



- 2.2.10** Exemption to IITG against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IITG after award shall be passed on to IITG by the contractor without dispute.
- 2.2.11** IITG reserves the right to reject any or all of the bids without assigning any reason.
- 2.2.12** Bid Validity: Bid shall remain valid for 120 days from the date of submission.
- 2.2.13** Firm Price: Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till the period of one year & shall not attract any escalation under any circumstances whatsoever.
- 2.2.14** Materials required for satisfactory completion of work shall be of approved quality, make, grade etc. and confirming to the Indian Standard Specifications (Latest revision) wherever applicable and as approved by the Engineer-in-charge. All material before fixing/ installation should be shown to the engineer-in-charge for quality check and approval.
- 2.2.15** Payment shall be made on the basis of actual measurement carried out. Security deposit @ 5% of the completed value shall be retained with IIT Goa for a period of one year of defect liability period. If any defect in the work is detected within one year of completion date due to bad workmanship or material supplied by the contractor, the same shall be made good by the contractor free of cost to IIT Goa. In case the contractor fails to rectify the defect promptly, the defect will be rectified and made good by IIT at the risk and cost of the contractor. The amount shall be recovered from the security deposit amount.
- 2.2.16** If any information furnished by the bidder is found as false / fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides forfeiture of Performance Guarantee and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IITG for next 02 (Two) years.
- 2.2.17** Bid security declaration in lieu of Earnest Money Deposit (EMD) is necessary to be furnished as per the attached format ANNEXURE-A. Bidders who do not submit the document will be out rightly rejected.

2.3 SUBMISSION OF TENDER

- 2.3.1** The sealed tenders shall be received at the C&EMD Office, IIT Goa, Goa College of Engineering Campus, Farmagudi, Ponda Goa-403401 up to 15:00hrs, 07th January 2022 or as per Corrigenda otherwise.
- 2.3.2** Tenders received after the due date and time shall not be considered. Tenders shall be submitted in a sealed Master envelope super scribed "Annual Maintenance Contract - Civil with the NIT No. IITGOA/C&EMD/2021/025 dt 24-12-2021, containing three separate sealed covers, each clearly super scribed as "Bid Security Declaration ", "Technical Bid" and "Financial Bid" respectively, in the following manner.



2.3.3

Envelope-1 will consist of Bid security declaration as per ANNEXURE-A. (Tender without submission of Bid security declaration would be summarily rejected).

Envelope-2 (Technical Bid) will consist of:

- Covering letter of the offer signed by firm's authorized signatory.
- Documents establishing the identity and authenticity of the bidder/ bidding firm.
- Self-certified copies of all the documents in support of eligibility of bidder ref. clause 1.3
- Undertaking by the bidder as per ANNEXURE-B

Envelope-3 (Financial Bid) will consist of the complete tender document, each page duly signed and stamped by the bidder as acceptance of the conditions, Undertaking by Bidder and Financial Bid all duly filled-in, signed by the bidder or his/her authorized signatory and stamped. The name of the person signing the bid documents with his designation in the firm/company must be clearly mentioned.

2.4 EVALUATION OF BIDS AND AWARD OF WORK

2.4.1 The Technical Bid of bidder will be opened on the specified date and time of opening at the C& EMD Office, IIT GOA, GEC Campus, Farmagudi, Ponda Goa in the presence of willing bidders or their authorized representatives.

2.4.2 Date, time and place of opening of Financial Bid will be informed to the Technically Qualified Bidders after evaluation of Technical Bid.

2.4.3 Bids shall, first be checked for bid security declaration. Only those bids found to have duly submitted the bid security declaration shall be considered for evaluation.

2.4.4 Evaluation of Technical Bid: The bids received will then be assessed on the eligibility criteria mentioned at para 1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non eligible and shall be rejected summarily.

2.4.5 IITG retains the right to revert back to individual bidders with further clarifications /queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter failing which they may be considered as non-responsive and shall be rejected.

2.4.6 On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.

2.4.7 Evaluation of Financial Bids: The Financial Bid should contain the complete bid document signed by the authorised representative of the firm and the financial should be duly filled in Indian Rupees. Financial Bids opened as above will be checked for arithmetical errors. The work will be finalised on lowest quotation basis.



- 2.4.8** The lowest bidder shall be issued work order for carrying out the work, and such bidder is required to furnish a Performance Guarantee (Format stated in Annexure D) within seven working days from the date of issue of work order.
- 2.4.9** Conditional tender will not be accepted.
- 2.4.10** Agreement (Contract) consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee after issue of Work Order.
- 2.4.11.** Date of start of work shall be reckoned from 15th day from the date of issue of "Work Order".



PART B (FINANCIAL BID)

1. SCHEDULE OF QUANTITIES - CIVIL WORKS

Name of work: Annual maintenance and repairs of IIT Goa administration building, offices, academic blocks, classrooms, laboratories, PG Block, Faculty Cabins, Central Library, Director's Bungalow, Mahalaxmi Bungalow, Portable Cabins, Workshop, Medical Dispensary, D-2/C, Raj Mudra, Tarangan Building Flats & 640 capacity hostel premises					
Estimate (Civil Works)					
Sr No.	Description of Item	Unit	Quantity	Rate	Amount
	NOTES :				
	a) The contractor shall arrange to provide the service on Saturday, Sunday and other holidays in case of emergency as required by Engineer in charge, failing which penal recovery shall be made, decision of Engineer in charge will be final.				
	b) All breakdown calls / complaints received during normal working hours should be attended to, at the shortest possible time.				
	c) The contractor shall provide daily report stating the nature of complaints / work done to the Engineer in charge or authorized representative daily in the format.				
	d) The contractor shall provide & maintain triplicate book for receiving the job complaint order from Engineer in charge daily in the approved format.				
	e) Each job is identified as following category based on its priority. A - Normal - 3working days B - urgent - 1 working day Penal recovery as under shall be made for delay in execution of work A - Normal - Rs 200.00/ day B - urgent - Rs 500.00/ day decision of Engineer in charge shall be final for deciding the job as A or B Category before allotting the job.				
	f) All the replaced items must be stored in the store room as specified by the Engineer in charge				
	g) No debris shall be left over during the repair works under each item on any day. An area for 'Debris bins' will be identified on the request of contractor for collection of debris generated on day to day basis. The Debris from debris bin shall be cleared every month. The contractor must maintain adequate number of wheel barrows all the time for shifting the debris to Debris bin.				
	h) Minimum labour strength and adequate material store to be maintained on regular basis as under: a) Carpenter = 1 No. b) Plumber = 1 No.				
	i) Police Verification Certificate of all workers shall be obtained by Contractor.				
	j) Department labour (for other miscellaneous works not specified below) if required shall be provided by the contractor as and when the engineer in charge informs about it. The material for which if required will be provided by IIT Goa. The departmental labour will be paid as per prevailing market rates.				
<u>CIVIL WORKS</u>					
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge: i) All kinds of soil a) all kinds of soils	sqm	250		
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. a) all kinds of soils b) hard rock (blasting prohibited)	cum cum	2 50		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	a) all kinds of soils i) pipes,cables.etc not exceeding 80mm dia	m	10		
4	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :				
	a) ordinary rock i) pipes,cables.etc exceeding 80mm dia but not exceeding 300mm dia	m	20		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level i) 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	10		
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level ; i) 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)	cum	10		
7	Centering and shuttering including strutting, propping etc. and removal of form for :				
	i) Foundations, footings, bases of columns, etc. for mass concrete ii) Columns, Pillars, Piers, Abutments, Posts and Struts	sqm sqm	80 40		
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. i) Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	300		
9	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
	1) cement mortar (1:4) (1 cement : 4 coarse sand)	cum	10		
10	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : i) 20 mm dia	metre	10		
11	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets: 1)20mm dia(heavy type)	metre	15		
12	Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :				
	i) 125x90x4.00 mm ii) 100x75x3.50 mm	nos nos	10 10		
13	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
	i) 125x64x1.90 mm ii) 100x58x1.90 mm	nos nos	5 5		
14	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :				
	i) 125x70x4 mm (ordinary type) ii) 100x70x4 mm (ordinary type)	nos nos	5 5		
15	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 1)250x10mm	nos	10		
16	Providing and fixing bright finished brass door latch with necessary screws etc. complete : 1)300x16x5mm	nos	5		
17	Providing and fixing bright finished brass handles with screws etc. complete: 1)125mm	nos	5		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
18	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	nos	10		
19	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	nos	15		
20	Providing and fixing aluminium sliding door 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 nuts and screws etc. complete :				
	1)300x16mm	nos	5		
	2)250x16mm	nos	5		
21	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 :				
	1)300x10mm	nos	5		
	2)250x10mm	nos	5		
22	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 :				
	1)125mm	nos	5		
23	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.				
	1)twin rubber stopper	nos	5		
24	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Metre	15		
25	Providing and fixing to existing door frames.i) 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	sqm	5		
26	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	400		
27	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	30		
28	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes				
	i) 110 mm diameter	mtr	25		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
29	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	i) Coupler - 110mm	nos	5		
	ii) Single Tee with door - 110mm x 110mm x 110mm	nos	5		
	iii) Single tee without door - 110mm x 110mm x 110mm	nos	5		
	iv) Bend 87.5° - 110mm bend	nos	5		
v) Shoe (Plain) - 110mm shoe	nos	5			
30	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	i) 110mm	nos	15		
31	12 mm cement plaster of mix :				
	i) 1:4 (1 cement: 4 fine sand)	sqm	30		
32	20 mm cement plaster of mix :				
	i) (1 cement: 4 fine sand)	sqm	20		
33	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	sqm	20		
34	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : i) Water thinnable cement primer	sqm	200		
35	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : i) Two or more coats on new work	sqm	400		
36	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : i) Two or more coats on new work	sqm	100		
37	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.	sqm	200		
38	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	200		
39	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: i) One or more coats on old work	sqm	100		
40	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : i) One or more coats on old work	sqm	100		
41	French spirit polishing :				
	i) One or more coats on old work	sqm	100		
42	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. 1)With cement mortar 1:4 (1 cement : 4 fine sand)	sq m	20		
43	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	each	5		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
44	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 operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (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. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	sqm	600		
45	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	nos	5		
46	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	nos	5		
47	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	nos	5		
48	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. 1) cement mortar	cum	2		
49	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
	1) Of area 3 sq. metres and below	nos	2		
	2) Of area beyond 3 sq. metres	nos	2		
50	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	1) For thickness of tiles 10 mm to 25 mm	sq m	20		
	2) For thickness of tiles above 25 mm and up to 40 mm	sq m	20		
51	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	nos	5		
52	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sq.m	50		
53	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sq.m	50		
54	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. i) 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern	sq.m	50		
55	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	1) W.C. pan with ISI marked white solid plastic seat and lid	nos	5		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
56	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 required: 1)White Vitreous China Wash basin size 630x450 mm with a single of 15 mm C.P. brass pillar tap.	nos	5		
57	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. 1) 10 litre capacity - White	nos	10		
58	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	nos	5		
59	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	nos	5		
60	Providing and fixing toilet paper holder : 1) C.P. brass	nos	10		
61	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.	nos	5		
62	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 1) 450mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	nos	5		
63	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	Internal work - Exposed on wall				
	1)15 mm nominal outer dia Pipes	mtr	50		
	2)20 mm nominal outer dia Pipes	mtr	50		
	3)25 mm nominal outer dia Pipes	mtr	30		
64	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.				
	External work				
	1)15 mm nominal outer dia Pipes	mtr	50		
	2)20 mm nominal outer dia Pipes	mtr	50		
	3)25 mm nominal outer dia Pipes	mtr	30		
65	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 1)15 mm nominal bore 2)20 mm nominal bore 3)25 mm nominal bore	nos	2		
		nos	2		
		nos	2		
66	Providing and fixing uplasticised PVC connection pipe with brass unions : i) 30 cm length - 15mm nominal bore ii) 30 cm length - 20mm nominal bore	nos	5		
		nos	5		
67	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 1) 100 mm diameter 2)150mm diameter	nos	5		
		nos	5		
68	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 1) 15 mm nominal bore	nos	10		
69	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
	1) 15 mm nominal bore	nos	5		
70	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	1) 15 mm nominal bore	nos	5		
71	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) :				
	1)Anodised aluminium (anodised transparent or dyed to required shade according	kg	300		
72	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) 1)Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	150		
73	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 aluminum 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. 1) Pre-laminated particle board with decorative lamination on both sides	sq.m	100		
74	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):				
	1)With float glass panes of 5 mm thickness (weight not less than 12.50kg/sqm)	sq.m	30		
75	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
	i) Upto 5mm depth and 5 mm width	metre	250		
76	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	nos	15		



Sr No.	Description of Item	Unit	Quantity	Rate	Amount
77	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanized iron section of 0.33mmthick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondaryintermediate cross-T of size 24x32 mm of length 600mm to formgrid module of size 600 x 600 mm, suspended from ceiling usinggalvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The workshall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.. 1)With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles.	sq.m	50		
78	Providing following skilled labour for 8hours/ day				
	1)Fitter (Grade 1)	days	70		
	2)1st Class Carpenter	days	30		
	3)1st Class Mason	days	15		
	Total Amount				
	Total Amount (Inclusive of GST)				



2. SCHEDULE OF QUANTITIES - HORTICULTURE WORKS

Estimate (Horticulture Works)					
Sr No.	Description of Item	Unit	Quantity	Rate	Amount
1	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately).	cum	50		
2	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	cum	80		
3	Providing and fixing Neelgiri/Mexican grass turf with earthy 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light, watering with sprinkler and maintenance for 30 days or more till the grass establish properly as per direction of officer incharge.	sqm	250		
4	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	cum	50		
5	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of I.S. designation 20 mm	cum	50		
	Total Amount				
	Total Amount (Inclusive of GST)				



ANNEXURES

1. ANNEXURE A (BID SECURITY DECLARATION)

(To be printed on letterhead)

BID SECURITY DECLARATION IN LIEU
OF SUBMISSION OF EARNEST MONEY DEPOSIT(EMD)

Ref:(1) OurOfferNo.....dated.....

(2)Your Tender No. IITGOA/C&EMD/2021/025 dated 24-12-2021

In the event of withdrawing or modifying our offer within the validity or extended validity period, we here by accept the suspension of our company/ firm for a period of two years from the date of publication of this tender for future requirement of IIT Goa

Signature with date:

Name:

Office Seal:



2. ANNEXURE B (UNDERTAKING BY THE BIDDER)

(To be printed on letterhead)

UNDERTAKING

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract (CPWD GCC) and all other contents in the tender documents for the work including applicable CPWD Specifications.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Goa within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing. We agree to keep the tender open for 120 days from the last date of its submission and not to make any modifications in its terms and conditions.

If I / we fail to submit the performance guarantee as specified, I / we agree that the Director, Indian Institute of Technology Goa shall without prejudice to any other right or remedy available in law, be at liberty to suspend our company/firm for a period of two years from the date publication of this tender for future requirement of IIT Goa. If I / we fail to commence the work, I / we agree that the Director, Indian Institute of Technology Goa shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance guarantee absolutely. Further, I / We agree that in case of forfeiture of Performance Guarantee as aforesaid, I / We agree to suspend of our company/firm for a period of two years from the date publication of this tender for future requirement of IIT Goa.

I / We hereby declare that I / We shall treat the tender documents and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than the officials of IIT Goa. I / We hereby declare that our firm (name & address of the firm) is neither blacklisted/debarred by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in case, at a later date, it is found that any details provided above are incorrect, the tender/ contract given to the firm may be summarily terminated and the firm may be blacklisted.

Seal & Signature of Firm:

Postal Address:

Dated:

Witness:

Address:



3. ANNEXURE C (LIST OF APPROVED MAKE OF MATERIALS)

Note:

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
2. The Contractor shall obtain prior approval from the Engineer-in-Charge before placing order for any specific Brand/ Make of material.
3. Whenever the specified brand of material is not available then, the Engineer-in-Charge may approve any material equivalent to that specified, subject to a definite proof being offered by the Contractor for its equivalence and its non- availability to his satisfaction.

Sr.No	Materials	Brand/Make
1	Acrylic Emulsion Paint	Asian (Royale), ICI (Velvet), Berger (Luxol Silk), Nerolac (Allscapes)
2	Aluminium Extrusions	Hindalco, Jindal.
3	Aluminum Sections	Hindalco, Jindal.
4	Calcium silicate board/tile	Aerolite, Ramco-Hilux
5	Cement	Ultra tech, ACC, JK Super Cement
6	CP fittings	Kingston, Johnson, Jaquar, Marc, EssEss, Cera.
7	CPVC Pipes	Astral Flowguard, Ashirvad
8	Float Glass	Modi Float, Saint Gobain, Tata.
9	FRP Shutters	Fibre Glass Engineers, Raipur, Aashoo.
10	G. I. pipes	Tata, Jindal, Swastik, Zenith
11	Hydraulic Door Closer	Hardwyn, Godrej, Dorma.
12	M. S. Pipe	Electro Steel, Apollo (ISI).
13	Sanitary fittings	Parryware, Hindware, Cera, Johnson.
14	Plastic Connection Pipe	Parryware, Kamal Delux .
15	Pre-laminated Particle Board IS : 12823 (Gr-I, Type-II)	Action TESA, Kitlam, Archid Ply, Green Lam
16	Primer	Asian, ICI DuLux, Nerolac
17	PVC Rain Water Pipe & Fitting IS:13592 Type A	Finolex, Supreme, Plasto.
18	Stainless Steel	Jindal Stainless Steel, Salem Steel
19	Structural steel section	TATA, SAIL, RINL, Jindal.
20	Steel Reinforcement Bars	TATA Tiscon, JSW Steel
21	Synthetic Enamel Paints	ICI(Dulux),Asian (Apcolite),Berger (Luxol),Nerolac (NST)
22	White Cement	JK, Birla.



4. ANNEXURE D (FORMAT - PERFORMANCE GUARANTEE)

In consideration of the Indian Institute of Technology Goa (IIT Goa) having offered to accept the terms and conditions of the proposed agreement between..... and.....(hereinafter called "the said Contractor(s)") for the works.....(hereinafter called the said agreement") having agreed for production of an irrevocable Bank Guarantee for Rs.....(Rupees.....only) as a security/ guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We,.....(hereinafter referred to as "the Bank") hereby undertake to pay Indian Institute of Technology Goa an amount not exceeding Rs.....(Rupees.....Only) on demand by IIT Goa.
2. We,.....(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure merely on a demand from IIT Goa stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....(Rupees.....Only)
3. We, the said bank further undertake to pay IIT Goa any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment and the Contractor(s) shall have no claim against us for making such payment.
4. We,.....(indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all dues of IIT Goa under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-In-Charge on behalf of IIT Goa certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We,.....(indicate the name of the bank) further agree with IIT Goa that IIT Goa shall have the fullest liberty without any consent and without effecting any manner our obligation hereunder to vary any terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone from any time or from time to time any of the powers exercisable by IIT Goa against the said contractor(s) and to forbear or enforce any of the terms & conditions relating to the said agreement and shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on part of IIT Goa or any indulgence by IIT Goa to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for provision, have effect of so relieving us.
6. This guarantee will not be discharged due to change in the constitution of the Bank or the Contractor(s).
7. We,.....(indicate the name of Bank) lastly undertake not to revoke the guarantee except with the previous consent of IIT Goa in writing.
8. This guarantee shall be valid up to.....unless extended on demand by IIT Goa. Notwithstanding anything mentioned above, our liability against the guarantee is restricted to Rs.....(Rupees.....) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged. Dated theday of for..... (indicate the name of the Bank)