



॥ सा विद्या या विमुक्तये ॥

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भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Near High Court, PB Road, Dharwad-580011

TEL NO: +91 836 2212 839

**Tender for providing maintenance of Civil and
Miscellaneous works at IIT Dharwad WALMI Campus**

Tender no: IITDH/MMD/IPS/2020-21/106

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
Near High Court, PB Road, Dharwad-580011
TEL NO: +91 836 2212 839

Tender no.: IITDH/MMD/IPS/2020-21/106

NOTICE INVITING TENDER

Name of the work:	Tender for providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus
Type of Tender:	Open Tender Enquiry
Estimate Value:	Rs.20.00 lakhs approx.
Cost of tender documents	Free of cost
EMD:	Rs.40,000/- (DD/PO in favour of The Registrar, IIT Dharwad) to be attached with the tender as separate sealed envelope.
Issue of tender:	13 th November, 2020
Last date for submission of tender:	Date: 04 th December, 2020 Time: 10:00 AM

Two Bid System: -

The two bid system will be followed for this tender. In this system bidder must submit their offer in separate sealed envelopes as – Technical Bid and Financial Bid.

Separate technical bid and financial bid envelopes should be clearly marked as "Envelope No. 1 - Technical Bid" and "Envelope No. 2 - Financial Bid".

Both these sealed covers are to be put in a bigger cover which should also be sealed and duly super-scribed with our Tender No. & Due Date and to be submitted to the concern department/section mentioned in tender document.

Note: The technical offer should not contain any price information. If the price quoted is submitted in technical bid, the tender will be rejected at the sole discretion of IIT Dharwad. Initially Technical Bids will be opened and evaluated by the works committee. Financial bids of only Technically qualified bidders will be opened later.

Contract/ Work Order will be awarded to the lowest bidder (L1) identified.

Covers Information / Submission of Bids

Cover No.	Cover Type	Description
1	Technical	EMD, Technical Specification, Tender Document, Schedule of Requirement and Compliance, Bidders Information/Indian Agent Information, Previous Work Orders etc.
2	Financial	Financial Bid
Opening of technical bid:	Date: 04 th December, 2020 Time: 10:30 AM	
Schedule of Opening of Commercial Bids	Schedule for opening of Financial Bid will be notified only to the bidders qualifying the Technical Bid. Presence of the bidder or his/her authorized representative at the time of opening of the Commercial bid is highly preferable.	
Contacting Authority:	The Assistant Registrar (Works) Near High Court, P B Road Dharwad-580011 E-mail: armm@iitdh.ac.in Telephone: 91-836-2212-839	

Tender no.: IITDH/MMD/IPS/2020-21/106

GENERAL CONDITIONS OF CONTRACT

Sealed tenders are hereby invited on behalf of the Indian Institute of Technology, (IIT) Dharwad, for providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus.

2.QUALIFICATION CRITERIA:

Only those bidders fulfilling the following Eligibility Criteria should participate in the tender: -

- 2.1 Bidders should be registered Government Contractor of Class I and must be in the business of providing of Civil works since 5 years or more (i.e. the firm must be in the business since November 2017 or earlier).
- 2.2 The Bidder must have carried out similar civil maintenance work in reputed organizations/IITs/IIMs/Govt. offices/PSUs/Central Universities etc. during a period of last 3 years (i.e. must have successfully completed the work during November 2017 till date). Completion certificates etc. to this effect are required to be enclosed.
- 2.3 A Certificate/Undertaking on the letter head of the Company to the effect that the bidder has not been blacklisted anywhere in India or abroad by any organization. A self-certification to this effect is required to be enclosed.
- 2.4 The Bidder should be registered with concerned statutory authorities for GST/Income Tax etc. The bidder should furnish relevant GST registration documents and PAN/TAN copies along with the bank details of the firm.

Any prospective bidder, not satisfying any of the above mentioned qualification criteria shall be disqualified on technical grounds and the price bid of such disqualified bidder will not be considered for this tender.

3. Tender documents can be obtained from IIT Dharwad website: http://www.iitdh.ac.in/announcements_worktenders.php

4. Tenders are invited under Open Tender Enquiry and two bid system for providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus. Technical Bid along-with supporting documents, Earnest Money Deposit (in form of DD/Bankers Cheque in favour of **The Registrar, IIT Dharwad** payable @ Dharwad) shall be submitted in separate sealed envelopes and then encased inside one sealed envelope super scribed 'Technical Bid providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus'. All the pages of this tender document along with necessary Appendices (as applicable) duly signed and stamped, will form the technical bid.

5. The bidder must submit the following documents/information within the Technical Bid (all 6 criteria to be mandatorily fulfilled for technical qualification):
- a. The entire tender document duly signed on each page.
 - b. Copy of the valid PAN Card, Goods & Sales Tax Registration be forwarded.
 - c. Proof of establishment of company/business for a period of more than 5 years.
 - d. The Bidder must have carried out similar civil maintenance work in reputed organizations/IITs/IIMs/Govt. offices/PSUs/Central Universities etc. during a period of last 3 years (i.e. must have successfully completed the work during November 2017 till date).
 - e. A Certificate/Undertaking on the letter head of the Company to the effect that the bidder/Manufacturer had not been blacklisted anywhere in India or abroad by any organization.
 - f. In case EMD exemption is sought under SME/MSME/NSIC, Valid certificate explicitly mentioning nature of operation shall be forwarded in addition.
6. The Price Bid as per Annexure-2 with this tender document, should be duly filled, stamped and signed by the authorized signatory of the agency/firm/company and sealed in a separate envelope super scribing 'Financial Bid for providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus'.
7. The Technical bid and the Price bid shall be sealed in one envelope super scribing 'Tender for providing maintenance of Civil and Miscellaneous works at IIT Dharwad WALMI Campus'.
8. The technical bids shall be opened as per schedule placed at Notice Inviting Tender (NIT). The vendors who are short listed after qualifying technical bid evaluation will be intimated the date of opening of price bids subsequently through proper means. IIT Dharwad reserves the right to reject any or all the tenders/bids without assigning any reason thereof.
9. Tenders are to be submitted in a serially numbered & bounded manner. The tender should be submitted in the **tender box by the tenderer kept in Office of Assistant Registrar up to 10:00 AM** on or before last date and time of bid submission as mentioned in Notice Inviting Tender (NIT) and will be opened by Assistant Registrar or his authorized representatives in his office / any other place in the Institute on date and time of tender opening as mentioned in NIT, in the presence of such tenderers who desire to attend.
10. Tenders should be addressed to Assistant Registrar, Indian Institute of Technology Dharwad, Near High Court, PB Road Dharwad 580011. The name of the tenderer and the name of the work must be noted on the above.
11. Income Tax PAN number & GST registration number is to be submitted along-with the bid.
12. The tenderers should write in figures as well as in words for the rates quoted by them on the proper form of the tender. All corrections / over writings must be attested by the dated initials of the contractor. The tenderer is advised to avoid offering discount /rebate in the covering page or at the end of the schedule. Instead the same can be incorporated in the unit rate by reducing the unit rates. If at all offered, the discount / rebate percentage offered is to be written in words such as Five percent / point Five percent etc.
13. The rates quoted shall be inclusive of all taxes, royalties etc. The contractor shall quote for all the items whose rates are asked and not leave any blanks all taxes including GST shall be borne by the contractor.
14. The offer should be valid for 90 days from the date of opening for the purpose of issue of acceptance letter. The amount quoted herein after referred to as Base rate must be firm and inclusive of all charges of any kind and inclusive of any kind of liability from / to any authority. GST shall be mentioned separately and must not form part of base price. There will be no extra payment or payment of escalation in the

amount under any circumstances whatsoever. Statutory taxes will be deducted at source from the payment against the bill amount.

15. No extra item or substitute item shall be allowed out without prior approval in writing.

16. Work has to be carried out in consultation with the representative as authorized by IIT Dharwad.

17. The tenderer should submit the requisite interest free Earnest Money Deposit (EMD) by pay order or Demand Draft in favour of **The Registrar, IIT Dharwad**. Tenders not accompanied by the Earnest Money Deposit shall not be considered. The EMD of unsuccessful tenderers will be returned within one month of award of work. In case EMD exemption is sought under SME/MSME/NSIC, Valid certificate from MSME explicitly mentioning the tender work herein, is required to be submitted.

18. The full value of Earnest Money Deposit is to be absolutely forfeited to the Director, IIT Dharwad or his authorized representative, with prejudice to any other rights or remedies to the Director, IIT Dharwad or his authorized representative, if the contractor fails to commence the work within 15 days continuously from the schedule date of commencement specified.

19. The Earnest money deposit paid at the time of tender, will be released after payment of final bill.

20. No part of the contract shall be sublet without written permission of IIT Dharwad nor shall transfer be made to power of Attorney authorizing others to receive payment on contractor's behalf.

21. IIT Dharwad reserves the right to reject any tender or all the tenders without assigning any reason therefore.

22. The Contractor shall comply with the provisions of all Acts, Statutes, Rules, Regulations etc. of the Central and State Government as the case may be that may apply to his case and if necessary, get himself duly registered as required by the said Acts, Statutes, Rules, Regulations etc.

23. The contractor for the work shall be liable to pay applicable tax (including Taxes on works contract to state Government) if any that may be levied by the State or Union Government. Any request contrary to this will not be accepted.

24. Period of maintenance: From 11-12-2020 to 31-03-2021

25. Terms of payment: As per the measurements at site and on certification of the site engineer.

- a) The contractor shall submit his monthly bill in triplicate along with monthly muster sheet.
- b) The payment shall be released through NEFT/RTGS payment system only in the bank account of the contractor after necessary deduction of statutory dues.
- c) TDS and other Statutory taxes shall be deducted at the source from the monthly bills.
- d) 5% of the bill amount (from all monthly bills) will be retained by IIT Dharwad as Security Deposit. The same shall be released after successful completion of the contract.

26. It shall be open to the Institute to abandon or give up at any stage of the construction of any of the said works or any part thereof. In the event of such abandonment or giving up or in the event of termination of the agreement, the Contractor shall be paid up to the work performed by then.

27. Deviation, Extra Items & Approvals for Pricing:

In case of execution of any extra items(s), apart from the BOQ, contractor must intimate the office of Dean (IPS) to obtain prior sanction for carrying out the work along with the quantities & rates. Thereafter, the contractor may submit the bills as per the usual practice of submission of RA bills.

DEVIATION LIMIT FOR THE CONTRACT ITEMS IS 50%.

In case of contract items which exceed the limit of 50%, the contractor must intimate the office of Dean (IPS) to obtain prior sanction for carrying out the work along with the quantities & rates. Thereafter, the contractor may submit the bills as per the usual practice of submission of RA bills.

28. Termination of contract: If the Contractor fails to perform any of its obligations under this agreement or if Institute is dissatisfied with the services of the Contractor, Institute may issue seven days' written notice intimating the Contractor of their failures or deficiencies and calling upon Contractor to rectify within such time as may be specified in the notice and if the Contractor fails to perform such obligation or make good such deficiencies as pointed out to the Contractor in the notice, Institute may terminate the services of Contractor under this agreement. Institute may also terminate the Contract hereunder:

- i) if the firm is adjudged bankrupt or
- ii) if they make a general assignment for the benefit of their creditors or
- iii) if a receiver is appointed on account of their insolvency or
- iv) they disregard law, ordinances, rules, regulations or orders of any public authority having jurisdiction on the works.

The termination shall be without prejudice to all rights, liabilities and remedies that have arisen or accrued till date of such termination or that may arise on account of such termination and Institute may get the project completed by whatever method they may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment, if due, until the loss, damage or expense incurred by Institute due to breach of this agreement by Contractor have been settled.

In case the Contractor abandons the work during the course of the project, the Institute has the right to appoint an alternate Contractor or make an arrangement for carrying out the work of Contractor, at the risk and cost of the Contractor. Traveling / daily allowances shall not be payable to the Contractor, its representatives, officials and consultants engaged by it for their visit to construction site, offices of local authorities, Employer's office or any other place in Dharwad.

The scope of work broadly described herein and assigned to Contractor, as their area of responsibility is inclusive of all constancy and other services required in connection with the completion of work whether specifically mentioned herein or not and rendering such constancy services will not entitle the Contractor to charge any additional fees in as much as the same are included in the overall professional fees payable to them.

29. Liquidated Damages Clause: If any delay in execution of the works is attributable to the acts or omissions and commissions of Contractor Institute shall be entitled to recover liquidated damages at the rate of 0.5% of the total fees per week of delay limited to maximum of 10% of the total actual fees payable.

30. Professional indemnity: Contractor warrants that it shall exercise high degree of care and diligence in rendering the services pursuant to this agreement and that; such services shall be of a quality and standard satisfactory to Institute. The Contractor shall indemnify Institute from any damage or loss arising from such lack of care and diligence or arising out of any unsatisfactory performance of service by Contractor. The contractor is required to obtain a Contractor All Risk (CAR) policy for successful and safe completion of project. Contractor shall provide a copy of this policy to Institute showing that such insurance has been taken and being maintained and that all the premia thereon have been paid. A certified copy of such insurance policy shall be deposited with Institute.

31. Dispute Settlement: In case of any dispute or difference arise between the parties during the progress of or after construction of this contract or touching or relating either to the said buildings or works, or to any other matter or thing arising directly or indirectly under this contract, then and in such an event the same shall be referred to Director, IIT Dharwad as the SOLE ARBITRATOR who shall alone consider and determine the same, whose decision / award shall be binding and conclusive upon both the said parties and this clause shall be deemed a submission within the meaning of Arbitration and Conciliation Act 1996 or Statutory modification or re-enactment thereof. It is specifically agreed that the Contractor shall continue to render its services provided herein with all the due diligence, professional skill and tact notwithstanding that any matter, question or dispute has been referred to arbitration. The venue of Arbitration proceedings shall be Dharwad. It is further agreed between the parties as hereto that the Dharwad Courts alone shall have the exclusive jurisdiction.

32. Site: The contractor shall remove all surplus materials, debris etc. out of the IIT Campus from the site of work on completion work and will hand over the site clean before the bill is processed for final payment. Dismantled materials if any (declared by Engineer-in-charge of the work) shall be returned to the Estate/ Electrical stores by the contractor at his own cost. The disposal of material shall be done in environmental friendly way and complying with the local rules and regulations.

33. Security:

a. Movement of contractor's materials:

Any materials which are removed from the site of work and are required to be taken out from the IIT campus, the contractor should follow the following procedure:

The contractor shall apply in writing to the Engineer- in-charge the details of the materials to be removed including which are rejected etc. This application shall be endorsed by the engineer in charge or his authorized representatives. The materials shall only be allowed to go out of IIT campus after counter signature of the security officer and checked at the gate. No materials/tools will be allowed to be brought on holidays/Saturdays/Sundays inside the campus. Contractors can bring the materials/tools/between 0900 hours and 1700 hours on any working day (Monday to Friday). This may please be noted.

b. Search:

Thorough search of all persons and transport shall be carried out at each gate and for as many times as gate is used for entry or exit and may also be carried out at any time or any number of times at the works site within the restricted area.

c. Working Hours:

The units controlling restricted areas usually work during five days in the week and remain closed on Saturday and Sundays. The working hours available to contractor's labour and staff are however appreciably reduced because of the time of entry and exit during working hours. The exact working hours, working days and non-working days observed for the restricted areas where works are to be carried out shall be deemed to have been ascertained by the contractor before submitting the tender. The tenderer's attention is invited to the fact that the total number of working hours for units are prescribed in regulations and no work beyond the prescribed working hours shall be permitted.

d. Entry and Exit:

The contractor, his agents, representatives, workmen, etc. and his materials, carts, trucks or other means of transport, etc. will be allowed to enter through and leave from only such gate or gates and at such times as the concerned authorized in charge of the restricted area may, at their sole discretion, permit. Contractor's authorized representatives, if required, are to be present at the places of entry and exit for the purpose of identifying his carts, trucks, etc. to the personnel in charge of the security of the restricted area.

e. Labour Law:

The work will be executed strictly following the Labour Laws of Central Govt & State Govt as may be applicable.

34. Scope of Work

- a) To maintain, repair and retrofit, construct and other civil services etc. under the custody of IIT Dharwad in WALMI Campus.
- b) The contractor posted should attend and available in the IIT Dharwad WALMI campus to attend the work 24 x 7 on all days.
- c) The contractor will be responsible for undertaking all types of repair /replacement pertaining plumbing/sanitary work in the entire WALMI campus under custody of IIT Dharwad.
- d) The necessary materials viz. plumbing pipes fittings, spindles, CP fittings, stone ware pipes, GI/PVC drainage pipes with fittings of approved quality required for day to day maintenance/repair/replacement will be arranged by the contractor.
- e) The contractor shall provide tools necessary for the work and no work should be left unattended for wants of tools.
- f) The contractor has the responsibility to provide all safety garments, equipment's, tools etc. to his staff or the persons dealing with work.
- g) Maintaining a register for all activities detailing date, time, item, item description, quantity, complaints diagnosis, time of completion of work etc. The register will be daily shown to the authorized staff of IIT Dharwad and countersigned to acknowledge the activities attended to reflect daily progress. The payment claimed by the contractor will be crosschecked with this register on each occasion.
- h) The contractor shall ensure that all energy efficient appliances, spare parts should be replaced as per the standard of approved make/brand by PWD, KPTCL or HESCOM.
- i) It shall be responsibility of the contractor to execute the work of maintenance and repair including replacement of sanitary and plumbing fittings at all levels and heights of the buildings for which necessary tools, safety belt, Scaffolding, helmets etc. will be arranged by the contractor at their cost.
- j) The carpenter's service should be available as and when required.
- k) The work of the contractor will be supervised by the authorized representative /Engineer of IIT Dharwad.
- l) The maintenance contract consists of operation and maintenance of existing buildings, plumbing and related services, petty civil works, construction of sheds, fast track structures, maintenance of staff quarters, roads and path ways etc. as detailed in schedule accompanying the notification and tender documents.
- m) The operating/ Supervisor staff shall possess the knowledge of firefighting and first aid.
- n) The operating/supervisor personnel shall have the basic knowledge and technical skill of civil execution works to carry out civil and plumbing works independently in case of emergency and urgent repair works.
- o) The contractor/operator/supervisor personnel shall have a clear working knowledge of the various BOQ items and shall not meddle /alter the BOQ items without the permission of the Engineer in charge.

35. Evaluation Criteria:

The L-1 will be decided on the Grand Total Rate quoted for the work. All levies/taxes (i.e. GST etc.) must be clearly mentioned in the row provided for the purpose (as per format of Financial bid).

However, the decision of the Competent authority will be final and binding in awarding the order. In case of any clarification required, the same can be clarified from IIT Dharwad before submission of the bids.

The bidders must also note that the quantities may vary (10% more or less). Additional items may also crop up other than the listed items as per site conditions.

Bidder Information

1.	Name of the Bidder	
2.	Address of the Bidder	
3.	PAN No.	
4.	GSTN No.	
5.	State of GST Registration	
6.	E-mail	
7.	Contact Person's Name & Designation	
8.	Mobile No.	

Signature of the Bidder with date and seal

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
Near High Court, PB Road, Dharwad-580011
TEL NO: +91 836 2212 839

Tender no.: IITDH/MMD/IPS/2020-21/106

SCHEDULE OF WORK / BOQ / PRICE BID
(To be quoted on the letter head of the bidder)

Bill of Quantity (to be quoted only in INR)					
Sl. No.	Particulars/Description	Unit	Qty.	Unit Rate	Amount
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.	cum	20		
2	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5	cum	15		
3	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	cum	20		
4	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	cum	20		
5	KSRB 2.9: Spreading and forming the excavated earth to required level, slope for an average thickness of 75mm. in all classes of soils all-round the building and low laying areas complete as per specifications.	sqm	400		
6	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured)	sqm	10		
7	Providing general disinfection services, spraying of insecticide and pesticide inside and outside the building (flies, bedbugs, lizards, cockroaches, spiders caterpillars etc., including cost of materials labour lead lift, hire charges of equipments etc., complete.	sqm	150		
8	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not	cum	5		

	exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.				
9	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum	5		
10	KSRB 4-1.5: Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum	5		
11	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications	cum	5		
12	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	sqm	20		
13	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. For all heights 0 to 10 meters	sqm	15		
14	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specification.	sqm	20		
15	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications	sqm	15		
16	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.	sqm	10		
17	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per	tonne	0.4		

	specifications.				
18	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	cum	6		
19	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	no	30		
20	KSRB 6-6.2: Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 75 (Machine moulded Wire cut bricks) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	cum	6		
21	KSRB 6-7.2 : Construction of partition wall 11.2 cms thick with non-modular table moulded burnt bricks of class designation 50 with cement mortar 1:4 including providing and fixing plaster mesh manufactured out of hot dipped galvanised iron of nominal thickness 0.35 mm. 100 mm. wide as per I.S. 2212/1991 at 7.5 m. c to c including cost of materials, labour charges, scaffolding, curing complete as per specifications.	sqm	10		
22	Fabricating, supplying & erecting M.S. Truss and other structural members like, beams, columns, bracing members etc. All the members are welded properly where ever required and proper and rigid supports shall be provided by welding, appropriate nut bolt connection by considering required anchor lengths of bolts. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification	kg	300		
23	Providing, fabricating, assembling and fixing in position aluminium partition using 101.60mm x 44.45mm x 1.5mm aluminium, mat finish or glossy finish, anodized sections combination of plain, single groove and double groove members should not exceed 0.60mc/c and bottom member of required lengths, joints mitred and corner grinded subdividing assembled frame should be stiffened with corner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC column or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; including cutting chiselling and making good with cement mortar to match the surface. Providing and fixing 12mm.thick prelaminated sheet (Ecoboard – exterior grade) of approved colour for bottom panel of maximum height 0.9m, and 5.50 mm thick plain or pin headed glass for middle panel and top panel with glazing clips pf 19.05 mm. x 17.30 mm.1.00mm. All the aluminium sections used to be treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non-adherence of mortar or any other sticky materials. do as per the specs mentioned. use the aluminium section anodized to 12-15 microns.	sqm	10		
24	Providing and fixing 6mm Bronze Multi wall poly carbonate sheet for Tubular structure. The work including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, complete as per specification.	sqm	5		

25	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (External work).				
	13.87.1 15mm nominal OD pipes	m	25		
	13.87.2 20mm nominal OD pipes	m	25		
	13.87.3 25mm nominal OD pipes	m	20		
	13.87.4 32mm nominal OD pipes	m	20		
	13.87.5 40mm nominal OD pipes	m	10		
	13.87.6 50mm nominal OD pipes	m	5		
26	KSRRB M200-17.1 dismantling of steel works in all type of sections upto a height of 5m above plinth level including cutting of rivets	tonne	0.5		
27	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of block of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification. Rubber mould pavers and should be approved for IIT engineer.	sqm	25		
28	Providing and fixing of wall cladding using 20mm thick gang saw water cut grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including curing etc., complete.	sqm	10		
29	KSRRB 15.3.1 Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm	35		
30	KSRRB 15.3 Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm	35		
31	KSRRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.do with primer.	sqm	75		
32	Providing and applying painting one coat including of priming coat on new wood surface / wood based surface with enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.	sqm	75		
33	Providing and finishing external walls in two coats over one coat of primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	sqm	75		

34	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below. MORTH Specification No. 202	cum	10		
35	KSRRB M200-12.3. –do– C. Prestressed / Reinforced cement concrete grade M-20 & above.	cum	5		
36	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305	cum	20		
37	KSRRB M300-14. Half brick circular tree guard, in 2nd class brick, internal diametre 1.25 metres, and height 1.2 metres, above ground and 0.20 metre below ground, bottom two courses laid dry, and top three courses in cement mortar 1:6 (1 cement 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete, complete as per specifications.	each	10		
38	Providing and fixing sign board of size 60x60cm equilateral triangle using M.S sheet 5mm thick with RCC pole of size 0.15x0.15x2.3 mtr made out of cement concrete M 20 proportion using 20mm and down size graded metal machine mixed with 10mm dia main steel bars and 8mm dia stirrups as shown in drawing. The poles shall be embedded in the ground for a depth of 0.6mtrs with cement concrete M 10 proportion. The board shall be fixed as per the drawing and at the place indicated by the Engineering charge of the work. The cost includes excavation, cost of all materials, cost of steel, centering, transportation charges, fixing charges etc., The work shall be carried out as per the detailed specifications, drawings and directions of the Engineer in charge of the work.	no	5		
39	Providing and laying of world class mineral acoustic ceiling panels of as per the following specification: -size of module panels of 600x600x19mm with exposed grid. The tiles should have Humidity resistance (RH) of 99% light reflectance 87%, thermal conductivity =0.052-0.057 w/m K, NRC-0.7, colour white, fire Performance UK A2 S,d0, with Anti-microbial coating on the face of the tile, suitable for zone 4 area according to NF S 90-35:2003 with cleanroom class ISO 5, Decontamination class of CP10 and bacteriological cleanliness class B1 for specific strains and reduction in colony size. Washability properties for 500 wash cycle as per ASTM D -4828 and suitable for Green Building application with Recycled content of 37%.	sqm	20		
40	KSRB 7.9: Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.	kgs	50		
41	KSRB 7.11: Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92.x31.75mm. for bottom section 1.3mm thick, weight 1.07 kg/m; sides and top sections 1.3mm. thick weight 0.933kg/m shutter frame section comprising top and bottom section of size 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter inside section 40mmx18mm wall thickness 1.25 mm. weight 0.417 kg/m; shutter interlock section 40mm x 26.7mm wall thickness 1.1 mm	sqm	10		

	thick weight 0.469kg/m the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenoned and rivetted in the assembled frame to be stiffened with end clips at corners, angles etc.; fixed to the walls, lintels, floor beams; cills, as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar; aluminium sections pretreated for removal of any rust and coated with greasy materials for non-adhesion of mortar and other sticky materials.				
42	KSRB 7.17: Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred corners grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. -do- using aluminium section anodized to 12 - 15 microns.	sqm	7		
43	Providing and fixing M.S. Hand railing for Balcony with 50mm dia.M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections should be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	sqm	5		
44	Supply of Labours				
	a) Unskilled	no	800		
	b) Plumbers	no	200		
	c) carpenters	no	100		
	d) masons	no	50		
	e) welders	no	25		
	f) fabricators MS/Aluminium	no	35		
	g) Inspection and drainage chamber cleaners	no	30		
45	Machineries on Hire basis mentioned below				

	a) providing of JCB	hrs	80		
	b) providing of tractors	day	50		
	c) Supplying of 8-10 tonne roller	hrs	10		
	d) Providing and supplying of water tankers capacity (3000 lts)	per trip	15		
46	Laying interlocking pavers over 50mm thick sand bed (Avg thickness and compacting with plate vibrator having 3 tonne compacting force there by forcing part of sand to come up in between joints, final compaction of paver surface into the final layer including, labour and HOM of machineries.(Excluding paver blocks)	sqm	80		
47	Supplying and fixing of Aluminium window GI mesh to windows and ventilators, includes removal of existing windows and refitting them if its necessary-sample to be approved by site in charge	sqm	15		
48	Providing and fixing vitrified glazed tiles of approved make, quality and colour of size 600 x 600 x 10 mm thick fixed on bed of 12 mm thick cement mortar for flooring, skirting mixed with pigment to match shades of tiles, including providing spacers at required intervals and removing stains, including cost of all materials, mortar, labour etc complete as per specifications	sqm	15		
49	Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1060 width 28-30mm crest height with crest distance of 200 mm c/c with ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47mm +/- mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self-drilling/self-tapping screws of 25mm length, to be fixed over the existing purlins, rafters, channels and trusses.	sqm	25		
50	Supplying and applying approved make of glass stickering/itching as per approved design , colour, specifications as per Engineers instructions (Rate MR)	sqm	175		
51	Providing and applying enamel metal paint two coats including priming coat over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials. Labour complete as per specifications.	sqm	175		
52	Total				
53	GST/Taxes as applicable				
54	GRAND TOTAL				

Note: In addition to the above work items, Miscellaneous works like Plumbing materials, sanitary materials, water fixtures and faucets, Pump Bore materials and Repairs, Ply wood materials, safety nets, fixing of wash basin mirrors, sealenting works etc. are also required to be executed as per requirement of IIT Dharwad from time to time. The lowest bidder may inspect the site and assess the requirements for the tenure of maintenance. The rates for this item shall be decided at later stages.

Declaration: I/We do hereby accept all the terms and conditions laid down in the tender document for the above said work/supply. I/We also agree to the condition that the right to suspend the tender process or part of the process, to accept or reject any or all the tenders at any stage of the process and/or to modify the process or any part thereof at any time without assigning any reasons thereto is reserved by the Competent authority of the Institute without any obligation or liability whatsoever.

Signature of the Bidder with date and seal