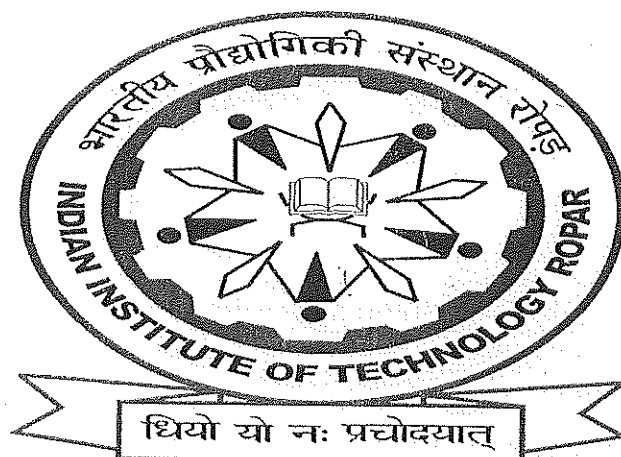


INDIAN INSTITUTE OF TECHNOLOGY ROPAR



NAME OF WORK :

Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.

NIT NUMBER : IITRPR/EE/T/21/209

Issued to

TO BE SUBMITTED TO:

The Registrar
IIT Ropar
Rupnagar
Punjab

INDEX

Name of Work : Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.

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NIT Amounting to **Rs. 2,42,561/- (Rupees Two Lakh Forty Two Thousand Five Hundred Sixty One only)** [Certified that this NIT contains pages (30 only) pages + BOQ contains (6 only) Pages Total 36(Thirty Six only) pages only]

PART – A

**INDIAN INSTITUTE OF TECHNOLOGY ROPAR
WORKS AND ESTATE OFFICE**

TENDER DOCUMENT

Name of Work: Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.

S. NO.	DESCRIPTION	PAGE
1	PART-A (NIT, Form 6 & 7, Performa of schedules etc.)	2-23
2	PART-B (Special conditions, Acceptable List of Makes, etc.)	24-29
3	PART-C (BOQ attachment)	30-36

Estimated Cost Rs. 2,42,561/- (Rupees Two Lakh Forty Two Thousand Five Hundred Sixty One only)



**Assistant Executive Engineer
(Civil)**



Executive Engineer

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
WORKS & ESTATE

NOTICE INVITING TENDER

The Registrar, IIT Ropar invites on behalf of Board of Governors of IIT Ropar sealed percentage rate tender from for the following work:-

NIT No. IITRPR/EE/T/21/209

Name of work: Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.

- 1. Estimated Cost:** 2,42,561/-,
- 2. EMD :**Declaration Form submit by the bidder/ Contractor/-,
- 3. Time of completion:** 30 days.

Last time and date of submission of bid **2:00 PM on 17.08.2021.**

The bid form and other details can be downloaded from the website **www.iitrpr.ac.in/tenders**


Registrar

Form-6**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR TENDRING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

The Registrar, on behalf of Board of Governors of IIT ROPAR, invites percentage rate tenders from registered contractors in appropriate class in CPWD/ MES/ BSNL /Railways/ State PWDs and Central PSUs for the following work:

S.no	Name of work and location	Estimated cost put to tender	Earnest Money Deposit	Period of Completion	Last date for submitting of EMD, Tender Fee, other documents	Time & date of opening of Tender
1	Civil Works for Metal 3D Printer at Permanent Campus of IIT Ropar.	Rs 2,42,561/-	Declaration Form	30days	2:00 PM on 17.08.2021	Opening at 3.00 PM on 17.08.2021

A. ELIGIBILITY CRITERIA :

1) Contractors who fulfill the following requirements shall be eligible to apply:-

a) Should have completed the works as mentioned below :

- . 3 (three) "**similar works**" each of value not less than 40% of the estimated cost put to tender

OR

- . 2 (two) "**similar works**" each of value not less than 60% of the estimated cost put to tender.

OR

- . 1 (one) similar work of value not less than 80% of the estimated cost put to tender.

***Similar works** means "**civil works**"

- b) Enlistment contractors of appropriate class in CPWD/MES/ BSNL/ Railways/ PSU/ State PWDs.
- c) Joint ventures are not accepted:

B. Documents to be submitted with tender :

i) (Envelope one) :-

- a) Enlistment order of the contractor.
- b) Required experience/completion certificate of works.
- c) Certificate of registration for EPF and ESIC.
- d) Copy of GST Registration.
- e) Tender document with signature on all pages.
- f) EMD Declaration Form.
- g) PAN registration with Income Tax Department.

(Envelope Two) :-

- a) Price quoted for the respective items in words and figures
- b) Signatures & stamp.

ii) **Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in front of Room no. 217, 2nd Floor of M. Visvesvaraya Block, IIT Ropar Birla Farms, Permanent Campus, Rupnagar - 140001.**

Second envelope submitted by intending tenderers shall be opened only to those tenderers, whose EMD declaration form and other documents placed in the envelope are found in order.

The tender submitted shall be opened at **03:00 PM on 17.08.2021.**

iv) The tender submitted shall become invalid if:

- a) The tenderers if found ineligible.
- b) The tenderers does not submit all the documents as stipulated in the tender document.
- c) If any discrepancy is noticed in the documents submitted physically in the office of tender opening authority.

OTHER CONDITIONS :

- 1) The intending bidder must read the terms and conditions of Form-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- 2) Information and Instructions for bidders posted on the website shall form part of the bid document.
- 3) The agreement shall be drawn with the successful tenderer on prescribed Form No. Form-7 as modified and corrected upto date which is available as a Govt. of India Publication. Tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement
- 4) The time allowed for carryout the work will be 30 days **(Thirty days)** from the date of start as defined in schedule "F" or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender document.
- 5) The site for the work is available.
- 6) The bid document consisting of plans, specifications the schedule of quantities of various types of items to be executed and set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.iitrpr.ac.in/tenders
- 7) The bid shall be submitted in front of Room no. 217 , 2nd Floor of M. Visvesvaraya Block, IIT Ropar Birla Farms, Permanent Campus, Rupnagar - 140001 with details of the mandatory documents such as Demand Draft or Pay order or Banker's cheque or Deposit at call Receipt or Fixed deposit Receipts and Bank Guarantee of any scheduled Bank towards cost of bid document .

Other necessary documents can be seen in the office of the Executive Engineer, IIT Ropar between hours of 10:00 AM to 5:00 PM from the day of publishing of NIT for the work upto one day before the last date of submission of tender every day except on Saturdays, Sundays and Public Holidays free of cost.

- 8) The tender shall be accompanied with earnest money deposit declaration form.
- 9) The contractor whose tender is accepted will be required to furnish a **performance guarantee** of **3% (Five Percent)** of the tendered amount within the period specified in Schedule F. This guarantee shall be Deposit at Call receipt of any scheduled bank / Banker's cheque of any scheduled bank / Demand Draft of any scheduled bank / Pay order of any Scheduled Bank of any scheduled bank or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.

In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, The decision should be taken as per EMD declaration form.

- 10) The Institute reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed to be suitable by it, if too many bids are received satisfying the laid down criterion.

- 11) The description of the work is as follows:

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above mentioned officer.

Tenderers, are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to the risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

- 12) The competent authority on behalf of the Director, IIT ROPAR does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all of the tenders received without the assignment of any reason.
- 13) All tenders, in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.
- 14) Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 15) The competent authority on behalf of the Director, IIT ROPAR reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
- 16) The contractor shall not be permitted to tender for works in the IIT ROPAR responsible for award and execution of contracts in which his near relative is posted as Group A Officer in Accounts Section or as an officer in any capacity between the grade of Registrar and Junior Engineer (both inclusive).

He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in the IIT ROPAR. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of the concerned Department / termination of the contract from

this institute.

- 17) No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
- 18) The tender for the works shall remain open for acceptance for a period of **Thirty days** from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at a liberty to forfeit 50% of the said earnest money as aforesaid. Further, the tenderer shall not be allowed to participate in the re-tendering process of the work.
- 19) This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall within **30 days** from the stipulated date of start of the work sign the contract consisting of:-
 - a) The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.0057.D. **Form-7** as modified and corrected.
- 20) Tenders with any condition including conditional rebates shall be rejected forthwith. However, tenders with unconditional rebates will be acceptable.
- 21) Tenderers must associate himself, with agencies of the appropriate class eligible to tender for each of the minor components of work.
- 22) The eligible bidders shall quote rates for all items of major components as well as for all items of minor components of work.
- 23) Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.

- 24) Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.
- 25) The acceptance of the tender shall be conveyed by the **Executive Engineer, IIT Ropar** on behalf of the Director, IIT ROPAR.



Registrar
For & on behalf of the Board of Governors, IIT Ropar

PERCENTAGE RATE TENDER AND FOR WORKS CONTRACT

- A) **Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.** To be submitted by **2:00 PM on 17.08.2021** in the front of Room no. 217, 2nd Floor of M. Visvesvaraya Block, IIT Ropar Birla Farms, Permanent Campus, Rupnagar - 140001.

To be opened in presence of tenderers who may be present at **3:00 PM on 17.08.2021** in the Office of Executive Engineer , 2nd Floor of M. Visvesvaraya Block, IIT Ropar Birla Farms, Permanent Campus, Rupnagar - 140001.

- 1) Issued to : _____
- 2) Executive Engineer, IIT Ropar

TENDER

I/We have read and examined the Notice Inviting tender, schedule, A,B,C,D,E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Director, IIT Ropar within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender **open for (30) Thirty days from the date of opening of tender** and not to make any modifications in its terms and conditions.

I/We undertake and confirm that eligible similar work(s) has/ have not been executed through another contractor on a back to back basis. Further that, if such a violation comes to the notice of the Department, then I/we shall be debarred for tendering in IIT Ropar in future forever. Also, if such a violation comes to the notice of the Department before the date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

Dated

Witness:

Address:

Occupation:

Signature of contractor

Postal Address: _____

Email : _____

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Board of Governors, IIT Ropar for a sum of Rs. _____ (Rupees _____ only), The letter referred to below shall form part of this contact Agreement:-

i)

ii)

iii)

Dated:

For on the behalf of Board of Governors, IIT ROPAR

Signature _____

PERFORMA OF SCHEDULES

SCHEDULE 'A' Schedule of Quantities.

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S.N.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-NIL-				

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor

S.N.	Description of item	Hire charges per day	Place of issue
1	2	3	4
-NIL-			

SCHEDULE 'D'

Extra schedule for specific requirements / document the work if any

As attached in for tender form

SCHEDULE 'E'

Reference to General Conditions of contract.

Name of Work:	Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar.
Estimated cost of the work:	Rs.2,42,561/-
Earnest Money Deposit	Declaration Form-
Performance Guarantee	3% of the tendered value of the work
Security Deposit	2.5% shall be deducted from the running bills.

SCHEDULE 'F'**General rules and direction:**

Officer inviting tender

**Executive Engineer,
IIT ROPAR**

Definitions:

2(i) **Engineer-in-Charge**

Executive Engineer,
IIT Ropar

2(ii) Accepting Authority

Registrar, IIT Ropar

2(iii) Standard Schedule of Rates

Delhi Schedule of Rates 2018

2(iv) Department:

Central Public Works Department

2(v) Standard contract Form:

GCC 2020, **Form-7** as modified & corrected up to date

Clause 1

i) Time allowed for submission of performance guarantee from the date of letter of acceptance. 5 days

ii) Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period as provided in (i) above. 3 days

Clause 2

Authority for fixing compensation under clause 2

Registrar, IIT Ropar

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start

3 days

Time allowed for execution of work

30 days

Authority to decide

i) Extension of time

Executive Engineer, IIT Ropar

ii) Rescheduling of milestones

Registrar, IIT Ropar

SALIENT/MANDATORY REQUIREMENTS FOR THE TENDER

Name of Work:

Civil Works for Metal 3D Printer at
Permanent Campus of IIT Ropar.

- 1 The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.
- 2 Separate schedule of quantity is included in this tender for civil items of work. The contractor shall quote the item rates in figures and words accurately so that There is no discrepancy in rates written in figures and words.
- 3 Time allowed for the execution of work is **30 days**.
- 4 The contractor(s) shall submit a detailed program of execution in accordance with the master programme / milestone within **7 days** from the date of issue of award letter.
- 5 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of CPWD specifications and guidelines given in the relevant paras.
- 6 The contractor(s) shall make his own arrangements for water required for the execution of work. For electricity a temporary electric connection at suitable place shall be provided by the Institute if possible, on request of the contractor. The required cable and electrical meter shall be arranged by the contractor. The monthly consumption of electricity shall be recovered from the running bills of the contractors on the approved rates of the Institute.
- 7 Samples of material are attached in the tender.

CONTRACT AGREEMENT

(ON RS.100 NON JUDICIAL STAMP PAPER*)

(*= To be purchased and submitted by the Contractor.)

THIS AGREEMENT is made on _____ 2021..... Between **Executive Engineer, Indian Institute of Technology Ropar, Punjab** (hereinafter referred to as "Client" which expression shall include his successors and assigns), and whose principal place of office is at IIT Ropar, Nangal Road, Rupnagar Punjab India 140001 of the One Part,

AND

M/s.....having its registered office at.....(Hereinafter referred to as "the Contractor") which expression shall unless excluded by or repugnant to the context be deemed to include his successors, heirs, executors, administrators, representatives and assigns) of the other part for

I. **WHEREAS** the Client invited bids through open tender, vide Notice Inviting Tender datedfor the work of "Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar" under **Tender No.**

II. **AND WHEREAS** the Contractor submitted his bid vide..... in accordance with the bid documents and represented therein that it fulfills all the requirements and has resources and competence to provide requisite services to the Client

III. **AND WHEREAS** the Client has selected **M/s**.....as the successful bidder ("the Contractor") pursuant to the bidding process and negotiation of contract prices, awarded the **Letter of Acceptance (LoA) No.**, to the Contractor on for a total sum of [Rupees Only].

IV. **AND WHEREAS** the Client desires that the "Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar" as defined in the Bidding Document) be provided, performed, executed and completed by the Contractor, and wishes to appoint the Contractor for providing requisite services to the Client.

V. **AND WHEREAS** the Contractor acknowledges that the Client shall enter into contracts with other contractors / parties for Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar for its office in cases the Contractor falls into breach of the terms and conditions as stipulated in the Tender Document and shall waive its claim whatsoever in this regard.

VI. **AND WHEREAS** the terms and conditions of this Contract have been fully negotiated between the Client and the Contractor as parties of competent capacity and equal standing.

VII **AND WHEREAS** the Contractor has fully read, understood and shall abide by all the terms and conditions as stipulated in the Tender Documents for providing "Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar" for Client's office, failing which the Contract is liable to be terminated at any time, without assigning any reasons by the Client.

VIII. The Client and the Contractor agree as follows:

1. In this Agreement (including the recitals) capitalized words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.

- (a) Notice Inviting Tender Form 6, Form No. 7, Performa of Schedules.
- (b) The Letter of Intent /Acceptance (LoI/A) issued by the Client.
- (c) Price Schedule
- (d) Performance Bank Guarantee.
- (e) Integrity Pact.
- (f) The Addenda, if any, issued by the Client.
- (g) Any other documents forming part of this Contract Agreement till date.
- (h) Charges – Schedule annexed to this Article of Agreement
- (i) Supplementary Agreements executed from time to time.

3. Any changes/modifications/amendments required to be incorporated in the Contract Agreement at a later stage shall be discussed and mutually agreed by both the parties and such supplementary agreements shall be binding on both the parties and shall form the part of this contract agreement.

4. This Contract shall be governed by and construed in accordance with the laws of India. Each Party hereby submits to the jurisdiction as set out in the Dispute Resolution Procedure in the Conditions of Contract.

IX. **IN WITNESS WHEREOF** the parties hereto have caused this Agreement to be executed in accordance with the laws of India on the day, month and year indicated above.

Signed on behalf of the Contractor

Signed on Behalf of the Institute

(Authorised Signatory)

(Executive Engineer, IIT ROPAR)

<On Organization Letter Head>

(For Works Contracts, including Turnkey contracts)

<CERTIFICATE>

Tender No. :- Date:-

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is from _____ (Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

(To be given on Company Letter Head – For tender value below Rs.10 Crores)

(To be given on Company Letter Head – For tender value below Rs.10 Crores)

(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,
The Registrar,
Indian Institute of Technology
Ropar Rupnagar, Punjab - 140001

Subject: - **Declaration of Local**

Content Tender Reference No: _____

Name of Tender/ Work: _____

1. We hereby declare that an item offered has _____% local content (DPIIT OM No. P-45021/2/2017-PP (BEII) dated 16.09.2020) & (DPIIT OM No. P-45021/102/2019-BE-II-Part(1) (E-50310) dated 04.03.2021)

2. Class of Supplier: ☐ Class - I ☐ Class - II

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law."

Yours faithfully,

(Signature of the bidder, with Official Seal)

<TO BE PROVIDED BY OEM ON LETTERHEAD>

(To be given on Company Letter Head – For value below Rs.10 Crores)

(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for value above Rs.10 Crores)

To,
The Registrar,
Indian Institute of
Technology Ropar
Rupnagar, Punjab -
140001

Subject: - Declaration of Country of Origin of Goods

Tender Reference No: _____

Name of Tender/ Work: _____

1. Country of Origin of Goods being offered: _____ (OM No. 6/18/2019-PPD dated 23.07.2020)

“*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the bidder, with Official Seal)

EMD Declaration Form

Tender no.

Date.

To

The Registrar,

IIT Ropar.

I/We/ M/s _____ (Name) bid for the tender _____ (Tender No.) for "Civil works for Metal 3D Printer at Permanent Campus of IIT Ropar" declare that if we withdraw or modify our bids either during the period of validity of bid or fail to execute the contract on award the work/purchase order/contract, we understand and agree that our firm will be debarred for the period of one- year for further bidding of any tender of your Institute. Further, we agree that your Institute is at liberty to intimate this debarment to all other Departments/ autonomous bodies/organizations of government and governmental organizations.

Signature of Bidder/ Agent

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

PART - B

SPECIAL CONDITIONS

- 1.** In the Contract (as hereinafter defined) the following definitions words and expressions shall have the meaning hereby assigned to them except where the context otherwise required.
- i) "Institute/Departement" shall mean the Indian Institute of Technology, Ropar (IIT Ropar)
 - ii) The "President" shall mean the Board of Governors, IIT ROPAR.
 - iii) The term "Director General of Works" shall mean the Director, IIT Ropar.
 - iv) "Supreintending Engineer" shall mean the Registrar of the Institute, who as overall In charge and head of the administration shall direct the contract.
 - v) The "Engineer-in-charge", who shall administer of the work, shall mean the Executive Engineer, IIT Ropar.
 - vi) "Accepting authority" shall mean the Registrar, IIT ROPAR on behalf of the Director.
 - vii) "Site Engineers" shall mean the AEE (Civil)/ Junior Engineer (Civil)/Junior Engineer (Electrical) appointed by Works & Estate department.
 - viii) No labour huts/ jhuggies shall be allowed to construct in the campus except for the security persons at work site with proper sanitation arrangements after due approval of the Registrar.
 - ix) Any damage caused to the existing roads, power cables, telephone cables, water lines and structures by the contractor's equipments, shall have to be made good by the contractor at his own cost.
 - xv) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

- xvi) No payment shall be made to the contractor for any damage caused by rain, snowfall, floods, earthquake or any other natural causes whatsoever during execution of work. The damages of the work will be made good by the contractor at his own cost and no claim on this account shall be entertained.
- xvii) For construction works which are likely to generate malba/rubbish to the tune of more than a tempo/truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at their own cost to the notified/specified dumping. The malba / rubbish shall required to be removed from site of work on daily basis, if the same is not removed a token penalty of Rs. 250/- per day shall be levied till the removal of malba. This shall be recovered from the bill. The contractor should not throw the malba from higher floors directly on the ground. It should be brought down through the staircase by the workers or proper chute should be installed for this purpose.

2. DUTIES & POWERS:

- (i) The duties of the Site Engineer(s) are to watch and supervise the works and the workmanship employed in connection with the works, and to test and examine any materials to be used. He shall have no authority to relieve the contractor of any of his duties or obligations under the contract nor, except as expressly provided here under, to order any work involving delay or any extra payment by the Institute, nor to make any variation in the works.
- (ii) The Engineer-in-charge, from time to time in writing, delegates to the Site Engineer(s) any of the powers and authorities vested in them. Any written instruction or written approval given by the Site Engineer(s) to the contractor within the terms of such delegation (but not otherwise) shall bind the contractor and the Institute as though it had been given by the Engineer-in-charge provided always as follows:
 - a) Failure of the Site Engineer(s) to disapprove any work or materials shall not prejudice the power of the Engineer In-charge to subsequently disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
 - b) If the contractor is dissatisfied by reason of any decision of the Site Engineer(s), he shall be entitled to refer the matter to the Engineer-in-charge, who shall thereupon confirm reverse or vary such decision.

3. ASSIGNMENT & SUBLETTING:

The contractor shall not assign the contract or any part thereof or any benefit or interest therein or thereunder without the written consent of the Engineer In-charge. The whole of the works included in the contract shall be executed by the contractor except where otherwise provided in the contract. The contractor shall not sublet any part of the works without the written consent of the Engineer In-charge and such consent, if given, shall not relieve the contractor from any liability or obligation under the contract, and he shall be responsible for the acts, defaults and neglects of sub-contractor, his agents, servants or workmen, as if they were the acts, defaults or neglects of the contractor provided always that the provision of labour contracts on a piece work basis shall not be deemed to be a subletting under this clause.

4. PROPOSED ACTION IN CASE OF AN ACCIDENT AT SITE:

- i. In case of any serious accident at work site, the Institute may cause an enquiry / investigation into the accident and depending on the outcome of such enquiry / investigation, the institute may take such action against the contractor as may be deemed fit and appropriate in the discretion of the Director, IIT Ropar which may also lead to termination of the contract, and / or forfeiture of the security deposit made by the contractor, and / or the contractor may be may be debarred from applying for future works in the campus for a specified period.

5. SCOPE OF WORK:

5.1 The Scope of work is Civil Work for Metal 3D Printer at Permanent Campus of IIT Ropar in accordance with the drawings, specifications and direction of Engineer-In-Charge at various locations of IIT Ropar.

6. CONTRACT DOCUMENT:

- 6.1 The several documents, forming the contract, are to be taken as mutually explanatory of one another and in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer-in-Charge who shall thereupon issue to the contractor its interpretation directing in what manner the work is to be carried out. In case the contractor feels aggrieved by the interpretation of the Engineer-in-Charge then the matter shall be referred to the Registrar and his decision shall be final, conclusive and binding on both parties to the contract.

- 6.2 The successful tenderer shall be required to enter into an agreement with the Institute. The Bill of Quantities & rates filled by the successful tenderer there in, the General Conditions of Contract for CPWD Works with upto date corrections slip incorporating corrections, CPWD specifications for Civil, the Special conditions, additional specifications, negotiation letter and the award letter etc. shall form part of the agreement to be signed by the successful tenderer. The cost of stamp paper and stamp duty, required for the agreement, shall be borne by the contractor.
- 6.3 TDS & CESS as per prevailing Government notification shall be recovered from the contractor's bills.
- 6.4 EPF & ESI contribution paid to the contract workers shall be reimbursed by the Engineer-in-charge on actual basis after satisfying that it has been actually & genuinely paid by the contractor. The contractor should furnish documentary proof for the contribution made.
- 6.5 **The price quoted by the bidder should be inclusive of all taxes, including GST and labour cess as applicable on the last date of submission of bid. The Institute shall not be responsible or hold liable to any tax which is applicable on the last date of submission.**

7. CONTRACT AGREEMENT:

- 7.1 The contract agreement, inclusive of its enclosures, shall remain in the custody of the Executive Engineer, Works & Estate, IIT ROPAR and be made available by him as and when required. Contractor shall however be supplied, an attested copy thereof, free of cost.
- 7.2 Canvassing in connection with tenders is prohibited and the tenders, submitted by the tenderers who resort to canvassing, are liable for rejection.
- 7.3 **Tenderers are not allowed to make additions and alternations in the tender document. Any additions and alterations, if incorporated in the tender, shall be at the tenderer's risk since the modified tender is liable for rejection. Conditional tenders violate of the spirit and the scope or the terms & conditions of the tender, are liable to be rejected without assigning any reason. Tenders with conditional rebate are liable for rejection at the sole discretion of the institute.**
- 7.4 The contractor shall have to make his own arrangement of water. The withdrawal of water from the network of the Institute shall not be allowed. No charges shall be recovered if the contractor develops tube well at site and pumping arrangement at his own cost. The contractor shall have to seek permission of digging tube well etc. for water arrangements from Engineer-in-charge.

- 7.5 Temporary electrical connection (single / three phase) shall be provided by the Institute from its distribution network and the charges shall be realized at the prevalent commercial tariff of the institute, presently recovery rate is Rs. 10.00 per unit on the basis of actual consumption thro' a separate sub-meter under the control of the Engineer-in-charge. If the rates are revised in future the same shall be applicable to the contractor. The contractor at his own cost shall arrange the cable for service connection and the sub meter.
- 7.6 Material for the work shall be arranged by the contractor on his own. No material shall be supplied by the Institute except where specifically mentioned in Schedule 'C'.
8. Liquidated Damages: Compensation for delay of work With maximum rate @ 1% (one percent) per month of delay to be computed on per day basis based on quantum of damage suffered due to stated delay on the part of Contractor
9. Defect Liability Period and Warranty: The Defect Liability Period for the work is 12 (Twelve) months from the date of completion of work. The performance guarantee will be returned after completion of the defect liability period.

10. ARBITRATION:

In the unfortunate situation if any all disputes, disagreement and controversies arising in any manner, which cannot be settled by mutual agreement between the two parties, shall be resolved through arbitration. The number of arbitrators shall be ONE, shall be appointed by Director, IIT Ropar. The decision of sole arbitrator shall be final and binding to both the parties. All provisions of Arbitration and Conciliation Act 1996 (with amendments) shall apply and the legal place of arbitration shall be Rupnagar, Punjab. The language of arbitration proceedings shall be English. The Court which has jurisdiction in the matter is District Court, Rupnagar, Punjab.

PART – C

Format A

Civil Works for Metal 3D Printer at Permanent Campus of IIT Ropar

Item No.	Description	Estimated Cost	Percentage Above or Below the estimated cost	Percentage (%) in figure	Percentage (%) in words	Total Cost in Rupees
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	Rs. 2,42,561/-				
	All kinds of soil.					
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.					
3	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).					
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete					
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)					
5	Centering and shuttering including strutting, propping etc. and removal of form work for :					
	Foundations, footings, bases for columns.					
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)					
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.					
8	Brick work with F.P.S. bricks of class designation 7.5 in foundation and plinth in:					
	Cement mortar 1:6 (1 cement : 6 coarse sand)					

Item. No.	Description	Estimated Cost	Percentage Above or Below the estimated cost	Percentage (%) in figure	Percentage (%) in words	Total Cost in Rupees
9	Providing an fixing pre-coated galvanised iron profile sheet (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%) total coated thickness with zinc coating 120 grams per sqm as per IS:227, 240 mpa sheet grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 meter or as desired Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5*55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
10	Providing and fixing pre-coated galvanised sheet roofing accessories 0.05mm (+0.05%) total coated thickness, zinc coating 120 grams per sqm as per IS : 227, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling / self tapping screws complete;					
	Gutter (600 mm over all grith)					
11	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.					
12	Structural steel riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.					
13	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.					
	Hot finished welded type tubes.					

Item No.	Description	Estimated Cost	Percentage Above or Below the estimated cost	Percentage (%) in figure	Percentage (%) in words	Total Cost in Rupees
14	Providing and fixing 1mm thick M.S Sheet Door with frame 40*40*6 mm angle iron and 3 mm M.S Gusset Plates at the junction and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					
	Using Flats 30*6 mm for diagonal braces and central cross piece.					
15	Providing and fixing G.I chain link fabric fencing of required width in mesh size 25x25 mm mde of G.I wire of dia 3mm including strengthening with 2 mm di a wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.					
16	Welding by gas or electric plant including transportation of plant at site etc. complete					
17	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.					
18	12 mm cement plaster of mix :					
a)	1:6 (1 cement: 6 fine sand)					
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:					
	Two or more coats on new work					
20	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & sahap, laid in required colour nad pattren over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. All complete as per the direction of Engineer-in-charge.					
21	Demolishing lime concrete manually/ by mechanical means including disposal of material within 50 meter lead as per direction of Engineer-in-charge.					
	Nominal concrete 1:3:6 or richer mix (l/c equivalent design mix)					

Format B

Civil Works for Metal 3D Printer at Permanent Campus of IIT Ropar

Item. No.	Description	Unit	Quantity	Rate	Amount
CIVIL WORK					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	All kinds of soil.	m ³	10.00	252.30	2523.00
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	m ³	6.00	219.65	1317.90
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	m ³	7.50	1953.05	14647.88
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	m ³	1.50	5225.15	7837.73
5	Centering and shuttering including strutting, propping etc. and removal of form work for :				
	Foundations, footings, bases for columns.	m ²	3.00	284.85	854.55
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	m ³	3.00	7718.25	23154.75
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.	Kgs	300.00	83.50	25050.00
8	Brick work with F.P.S. bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	m ³	1.00	6157.45	6157.45
9	Providing an fixing precast galvanized iron profile sheet (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05%) total coated thickness with zinc coating 120 grams per sqm as per IS:227,240 mpa sheet grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns . Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation nad should be supplied in single length upto 12 meter or as desired Engineer-in-charge. The sheet shall be fixed using self deilling /self tapping screws of size (5.5*55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	20	627.55	12551.00

Item. No.	Description	Unit	Quantity	Rate	Amount
10	Providing and fixing pre-coated galvanized sheet roofing accessories 0.05mm (+0.05%) total coated thickness, zinc coating 120 grams per sqm as per IS : 227, in 240mpa steel grade, 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns using self-drilling / self-tapping screws complete;				
	Gutter (600 mm over all girth)	meter	18	1041.75	18751.50
11	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	125	86.05	10756.25
12	Structural steel riveted, bolted or welded in built-up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	175	101.75	17806.25
13	Steel work in built-up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolting with special shaped washers etc. complete.				
	Hot finished welded type tubes.	Kgs	145.00	143.45	20800.25
14	Providing and fixing 1mm thick M.S Sheet Door with frame 40*40*6 mm angle iron and 3 mm M.S Gusset Plates at the junction and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
	Using Flats 30*6 mm for diagonal braces and central cross piece.	sqm	4.20	4278.15	17968.23
15	Providing and fixing G.I chain link fabric fencing of required width in mesh size 25x25 mm made of G.I wire of dia 3mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	sqm	43.00	909.60	39112.80
16	Welding by gas or electric plant including transportation of plant at site etc. complete	cm	450	3.35	1507.5
17	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kgs	45.00	83.85	3773.25
18	12 mm cement plaster of mix :				
a)	1:6 (1 cement: 6 fine sand)	sqm	6.00	829.45	4976.70
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
	Two or more coats on new work	sqm	22.00	121.55	2674.10

Item. No.	Description	Unit	Quantity	Rate	Amount
20	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & sahap, laid in required colour nad patten over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. All complete as per the direction of Engineer-in-charge.	sqm	9	859.35	7734.15
21	Demolishing lime concrete manually/ by mechanical means including disposal of material within 50 meter lead as per direction of Engineer-in-charge.				
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	1.50	1737.45	2606.18
Civil Works Amount (A)					242561.41