

- on the construction site in the Institute.
- iii. All labour should be issued an I-card on format approved by the Institute.
 - iv. In case of a serious violation of labour laws by the contractor in respect of the works awarded by the institute under these agreement, 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 lead to termination of the contract, and / or forfeiture of the security deposit made by the contractor, and / or the contractor may be debarred from applying for future works in the campus for a specified period.

6. SCOPE OF WORK:

- 6.1 Fabrication and erection of structural steel work for Shed.
- 6.2 Concrete work in foundation.
- 6.3 Providing & fixing of fly mesh.
- 6.4 Providing & fixing PPGI sheets.
- 6.5 Painting works etc.

7. CONTRACT DOCUMENT:

- 7.1 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.
- 7.2 The drawing etc. shall remain in the custody of the Institute. Two complete sets of drawings, specification and Bill of Quantities shall be furnished by the Engineer-in-charge to the contractor in such time, which must not delay the progress of the construction, and the Institute shall furnish copies of any additional drawings, which in their opinion may be necessary for the execution of any part of the work. One complete set shall be kept on the work site and the Engineer-in-charge and his representatives shall be, at all reasonable times, have access to the same. The contractor shall study the drawings thoroughly before the commencement of work. In case of any discrepancy, the contractor shall seek clarification before proceeding with the works. Figured dimensions are in all cases to be accepted in preference to the scaled sizes. Large-scale details shall take preference over small scale ones. The contractor shall give adequate notice in writing to the Engineer-in-charge of any further drawings or specification that may be required for the execution of the works or otherwise under the contract. The Engineer-in-charge shall have full powers and authority to supply to the contractor from time to time during the progress of the work such drawings and instructions as

shall be necessary for proper execution and the contractor shall carry out and be bound by the same.

- 7.3 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 slipincorporating 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.
- 7.4 VAT & CESS as per prevailing Government notification shall be recovered from the contractor's bills.
- 7.5 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.
- 7.6 The price quoted by the bidder should be inclusive of all taxes 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.
- 7.7 The quoted rates shall be inclusive of Trade Tax on works contract. The works contract tax shall be deducted from the bills of the contractor at the prescribed rates.
- 7.8 GST for this work shall be deposited by the Contractor to the concerned department on demand and it will be reimbursed to him by the Engineer-in-Charge after submission of documentary proof on satisfying himself that it has been actually and genuinely paid by the Contractor for this work.
- 8. CONTRACT AGREEMENT:**
The contract agreement, inclusive of its enclosures, shall remain in the custody of the Executive Engineer, Works & Estate Department, IIT ROPAR and be made available by him as and when required. Contractor shall however be supplied, an attested copy thereof, free of cost.
- 8.1 Canvassing in connection with tenders is prohibited and the tenders, submitted by the tenderers who resort to canvassing, are liable for rejection.
- 8.2 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.

- 8.3 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.
- 8.4 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. **6.57** per unit on the basis of actual consumption through 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.
- 8.5 Cement and steel 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'.

9.0 ARBITRATION:

In the unfortunate situation of any and all differences, disputes, disagreement and controversies arising in any manner under this Contract, which cannot be settled by mutual agreement between IIT Ropar and the successful bidder, the matter shall be submitted to arbitration.

All provisions of Arbitration and Conciliation Act 1996 (with amendments) shall apply and the place of Arbitration shall be Rupnagar, Punjab. The language of the Arbitration proceedings shall be English. The number of Arbitrators shall be ONE which shall be appointed by Director; IIT Ropar. The court which would have jurisdiction in the matter is Rupnagar, Punjab.

QUALITY ASSURANCE OF THE WORK

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted.
2. The contractor shall get the source of all other materials, not specified else where in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
3. The contractor shall also submit bar bending schedule for approval of Engineer –in – charge before execution.
4. Material Inspection:
 1. Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.
 2. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
 3. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.
 4. The contractor shall procure all the materials at least in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
6. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the

same at site before use.

7. The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.

CONTRACTOR

(Executive Engineer)
For and on behalf of
Director, IIT ROPAR

ADDITIONAL TERMS AND CONDITIONS

1. Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
2. Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
3. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.
- 4a. The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and abide by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
- 4b. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
- 4c. The work of water supply, internal sanitary, lift, fire fighting installations and drainage etc. shall be carried out as per the bylaws. The contractor shall obtain such NOC from respective authorities.
5. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity, lift and firefighting etc. and nothing extra whatsoever shall be payable for the same.
6. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
- 7a. For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature indicated in the publications Abbreviated Nomenclature of Items of DSR- 2016 shall be accepted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the

complete nomenclature of the relevant items in the agreement and relevant specifications.

- 7b. In case of items for which abbreviated nomenclature is not available in the aforesaid publication and also in case of extra and substituted items for which abbreviated nomenclature are not provided for in the agreement, full nomenclature of item shall be reproduced in the measurement books and bill forms for running account bills.
- 7c. For the final bill, however, full nomenclature of all the items shall be adopted in preparing abstract in the measurement books and in the bill forms.
8. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
9. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
10. In case the supply of timber/steel frames/shutters for doors, windows etc. is made by some other agency, the contractor shall make necessary arrangements for their safe custody on the direction of the Engineer-in-charge till the same are fixed in position by him & nothing extra shall be paid on this account.
11. The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
12. The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
13. Cement bags shall be stored in separate godowns to be constructed by the contractor at his own cost as per sketch (which is only indicative and actual size will depend on the site requirements) at page 23 of CPWD specification 2009 Vol. I with weather proof roofs and walls. Each godown shall be provided with a single shutter door with two locks. The key of one lock shall remain with Engineer-in-charge or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is issued from the godown according to the daily requirements with the knowledge of both parties and proper account for the same is maintained in the standard proforma.

PROFORMA FOR THE CEMENT REGISTER

PARTICULARS OF RECEIPT

Date of receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued
1	2	3	4	5	6

PARTICULARS OF ISSUE

Qty. returned at the end of the day	Total issued	Daily balance in hand	Contractor's initial	JE's initial	Remarks (AE/EE's periodical check)
7	8	9	10	11	12

14. In case of concrete and reinforced concrete work, the contractor shall be required to make arrangements for carrying out compressive strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, their proper curing and carriage up to the laboratory where the tests are to be got conducted. The cube tests may be performed at institute / site laboratory approved by the Engineer-in-charge.
15. In case there is any discrepancy in frequency of testing as given in the list of mandatory test and that in the individual sub-head of work as per CPWD Specifications 2009 Vol.I & II with upto date correction slips the higher of the two frequencies of testing shall be adopted. Nothing extra shall be payable to the contractor on this account.
16. **ADDITIONAL TERMS & CONDITIONS FOR QUALITY OF BRICKS**
Bricks shall conform to CPWD Specifications 2009 Vol.I & II and Bricks of quality first class local available shall be used by the Contractor in place of class designation 75 mentioned in all the items using bricks in Bill of Quantity.
17. The contractor shall provide approved type of supports for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings. Spacer blocks of required shape and size, MS chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (conbextra as manufactured

by M/s Fosroc Chemicals India Ltd. Or approved equivalent) of high early strength. Blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-Charge. Rate of item of steel reinforcement is inclusive of cost of such cover blocks.

18. **CONDITIONS FOR CEMENT:**

- 18.1 The contractor shall procure Pozolona Portland cement (conforming to IS 1489 (part-I) in the work, from reputed manufactures of cement, having a production capacity of one million tonnes per annum or more such as A.C.C., Ultratech, J.P. Rewa, Vikram, Shri Cement, Birla Jute and Cement Corporation of India etc. Supply of cement shall be taken in 50 Kg bags, bearing manufacture's name and ISI

marking. Samples of cement, arranged by the contractor, shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so. The cost of the tests shall be borne by the Contractor/department in the manner indicated below.

- a) By the contractor, if the results show that the test does not conform to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents.
- b) By the department, if the results conforms to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents.

- 18.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as directed by the Engineer-in-Charge.
- 18.3 The cement godown of the capacity to store a minimum of 1000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to lock the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
- 18.4 The contractor shall supply free of charge the cement required for testing.
- 18.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement also shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by the conditions laid therein.
- 18.6 Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot & arid regions, the minimum curing period shall be 14 days or its equivalent.

19. **CONDITIONS FOR STEEL:**

- 19.1 The contractor shall procure TMT bars of Fe 500 D grade from primary producers such as SAIL / TISCO / RINL/JSW and JSPL as approved the by Ministry of Steel.
- a. The TMT bars procured from primary producers shall conform to manufacture's specifications.
 - b. TMT bars procured from primary producers, the specifications shall meet the provisions of IS 1786 : 2008 pertaining to Fe 500 D grade of steel as specified in the tender.
- 19.2 The contractor shall have to obtain vouchers and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site work.

To,

The Executive Engineer,
IIT Ropar, Nangal Road,
Rupnagar -140001

Sub: Submission of Tender for the work of _____

Dear Sir,

I/We acknowledge that IIT Ropar is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IIT Ropar. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IIT Ropar shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

PART-C

Format "A"

Name of Work: Extension of shed in Jupiter Hostel in TC-1 of IIT Ropar(SH:Steel Work)						
Estimated Cost : Rs. 1,53,427/-						
S.No.	Name of Component	Estimated Cost (in Rs.)	Percentage above or below the estimated cost	% in figures	% in words	Total Amount (in Rupees)
1.	Civil work (SH:Steel Work)	1,53,427/-				



Schedule of Work

Extension of Shed in Jupiter hostel in transit campus-1 of IIT Ropar

Sr. No.	Item Description	Unit	Quantity	Rate	Amount
1	Providing and fixing pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50mm (+0.05%) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyster 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 by Engineer-in-Charge. The sheet shall be fixed using self drilling/self tapping screws of size(5.5X55mm) 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	72	550.4	39628.8
2	Providing and fixing pre-coated galvanized steel sheet roofing accessories 0.50mm (+0.05%) total coated thickness, Zinc coating 120 grams per sqm as per IS:277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyster top coat 15-18 microns using self drilling/self tapping screws complete: Flashings/Apron (Upto 600mm) Gutter (600 mm over all girth)	meter meter	15 30	332.8 833.05	4992 24991.5
3	Providing and fixing SS anchor bolt of specified diameter and length in RCC wall/beam/slab/ or in masonry by drilling holes of appropriate size and depth with hammer drill and anchor grouting the bolt with injectable HUV adhesive grout of HILTI or equivalent making through injecting gun after cleaning the hole with blower to make holes free from dust particles etc. all complete as per manufacturer specifications and directions of engineer-in-charge.				
	a. M-12 X 110mm (embedded length) of 5.8 grade steel HAS-e ROD FULLY THREADED BOLT OF OVERALL LENGTH 175 MM INCLUDING COST OF SS washer and nuts and grout not less than 30ml per hole.	Each	25	800	20000
4	Structural Steel Work 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	240	67.6	16224
5	Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15X3mm and nuts & bolts complete. Galvanized M.S. Wire gauze with 0.63mm dia wire and 1.4mm aperture on both sides	sqm	50	544.45	27222.5

6	Providing and fixing 1 mm thick Ms Sheet door with frame of 40X40X6 mm angle iron and 3mm M.S. gusset plate at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. ANGLES 40x40x6mm for diagonal braces	sqm	7	2870.3	20091.8
7	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. MS tube	kg	3	92	276
					153427

Shard