



Name of Work: Construction of M.S. Frame for fixing of false ceiling and partition work for Machining Center Lab. of TBI at New Workshop 16B'of IIT Patna Campus

February 2022

BID DOCUMENT

Indian Institute of Technology, Patna

Name of work: Construction of M.S. Frame for fixing of false ceiling and partition work for Machining Center Lab. of TBI at New Workshop 16B' of IIT Patna Campus

INDEX

Sl. No	Contents	Page
1.	Notice.	3
2.	Eligibility Criteria	4
3.	Information and Instructions for e tendering	6
4.	General terms and condition& Clauses of Contract	8-9
5.	Annexures -I	10
6.	Approved make	11
7.	BoQ, Drawing	12 - 14

This tender document contains pages from 1 to 14

Indian Institute of Technology Patna

1. NOTICE

Indian Institute of Technology, Patna invites the **Percentage (%age) Rate e-tenders for Construction of M.S. Frame for fixing of false ceiling and partition work for Machining Center Lab. of TBI at New Workshop 16B' of IIT Patna Campus** in two bids from the eligible and interested bidders who are well equipped, experience, financially sound Contractors for the following works :-

1	Tendering Document No.	IITP/IWD/AZ/CS//2022, dated 11.02.2022
2	Name & brief scope of Works	Construction of M.S. Frame for fixing of false ceiling and partition work for Machining Center Lab. of TBI at New Workshop 16B' of IIT Patna Campus
3	Estimated cost put to tender(ECPT)	Rs.2, 83, 910/-
4.	EMD Amount	2% of Estimated cost put to tender.
5.	Period for completion	25days
6.	Date and Time for Issue/Publishing of tender	14.02.2022 up to 03:00 P.M.
7.	Last date of submission of tender	24/02/2022 up to 3:00PM
8.	Technical bid opening	25/02/2022 at 11:30 A.M
9.	Financial bid opening	Date will be intimated on CPP.
10.	Retention Money	5% of the total bill will be deducted as retention money and will be returned after defect liability period(DLP) of one year. No interest will be paid on this.
11.	Bid validity	45 days from opening date of technical bid
11.	Defect Liability period	One year from the date of completion to the satisfaction of IITP.

H o D (IWD)

2. Eligibility Criteria

Bidder must meet the following eligibility Criteria:

A. Technical Criteria:

Contractors who fulfill the following requirements shall be eligible to apply. The Joint Ventures are not accepted.

- (i) Experience of having successfully completed works during the last 7 years ending previous day of last date of submission of tenders **Three similar completed works**, each costing not less than the amount equal to **40%** of estimated cost put to tender,

or
- (ii) **Two similar completed works**, each costing not less than the amount equal to **60%** of the estimated cost put to tender

or
- (iii) **One similar completed work** of aggregate cost not less than the amount equal to **80%** of the estimated cost.
- (iv) **Turnover:** Average annual financial turnover on construction works should be at least **50%** of the estimated cost put to tender during the immediate last three consecutive financial years. If for any one the financial year 2020-21 is not audited yet then in that case audited balance sheet of year 2018 shall be given.
- (v) **Profit/ loss :** The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the Chartered Accountant.
- The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion and up to 31.12.2020.
 - i **The 'similar works' shall mean Civil work.**
 - ii Experience certificate is required (completion certificates).

If the bidder is submitting the experience from private sector, the same must be supported by the work completion certificate for making eligible to this works, work order, schedule of work executed and TDS certificate for the transaction made to the bidder by the organization after completion of the work,

b) Should have valid PAN (Permanent Account Number of Income Tax) & GST Registration no. Copies of documentary evidence to be submitted.

c) It is desirable that the bidder should have valid PF Registration No & GST registration andESI (If required). In case, the bidders do not have PF Registration No & GST registration the same shall be obtained, if required by successful bidder for release of payment.

B) Documents to be submitted along with technical bid:

- (a) Copies of work order and experience certificates for the works completed as per the technical criteria of Tender document.
- (b) Copy of GST Registration Certificate.
- (c) Copy of PanCard.
- (d) Copies of audited balance sheet and profit loss statement from chartered accountant to be submitted.
- (e) Scanned copy of valid EPF and ESIC registration or an undertaking that the firm is not required to register under the scheme. Format for undertaking has been provided in Annexure -I.

1. The tender form/bidder document may be downloaded from the website: <https://eprocure.gov.in/eprocure/app> and <https://www.iitp.ac.in>. Online submission of Bids through Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory. **Manual/Offline bids shall not be accepted under any circumstances.**

2. Tenderers/bidders are requested to visit website <https://eprocure.gov.in/eprocure/app> and <https://www.iitp.ac.in> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through these two websites only.

3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Institute reserves the right to accept or reject any or all the tenders.

4. Earnest money Deposit (EMD 2% of Estimated cost put to tender) of Rs.5,679/- (Rupees Five Thousand Six Hundred Seventy Nine only) to be deposited in the institute's account through SBI i collect and the receipt of submission is to be uploaded along other techno financial documents. For details regarding submission of EMD, the webpage with following link maybe visited:

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING

- a. Information and instructions for Contractors will form part of NIT and to be uploaded WWW.EPROCURE.GOV.IN/IITPATNA website.
- b. The bid document consisting of scope of works and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website WWW.EPROCURE.GOV.IN/IITPATNA. But the bid can only be submitted after uploading the mandatory scanned documents as mentioned in Page 5 of NIT document in favour of H o D (IWD), IIT Patna.
- c. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- d. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- e. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- f. The bidder must ensure to quote rate for each items separately in the specified column. If any column of rate against any item remains left blank by the bidder, it shall be treated that the bidder has quoted nil rate for that and the item will be executed by the bidder free of cost. **(Not applicable)**
- g. Tender documents consisting of specifications, schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen on website WWW.EPROCURE.GOV.IN/IITPATNA.
- h. The information and instructions for tenderers / bidders posted on the web-site shall form part of bid/tender documents.
- i. The bid can only be submitted after scanning and uploading the mandatory details within the period of tender submission i.e. up to **24.02.2022, up to 03:00 P.M**
- j. This Notice Inviting Tender shall form a part of the contract document. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose documents submitted online are found in order.

- k. 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 work, 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 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.
- l. The competent authority does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
- m. In case the contractor fails to commence the work specified in the tender documents on 7th day or such time as may be mentioned in the letter of award or from the date of handing over the site wherever is later, the Institute shall, without prejudice to any other right or remedy, be at liberty to forfeit whole of the Earnest Money Deposit (EMD) absolutely.
- n. Sales tax/GST, purchase tax, turn over tax, Excise duty, Service tax, work contract tax or any other tax and CESS on materials and Labour as applicable shall be paid by the bidder himself. The bidder shall quote his rates considering all such taxes.
- o. Conditional tender will be summarily rejected.

1. ADDRESS FOR COMMUNICATION:

EE Civil (AZ)

Indian Institute of Technology,

Patna Bihta, Amhara,

Patna, Bihar –801106,

Phone – 06115-233059

H O D (IWD)

GENERAL TERMS AND CONDITION

1. IIT Patna reserves the right to reject any or all tender received without assigning any reasons thereof.
2. The agency is fully responsible for the safety of working personnel.
3. All statutory deduction will be deducted as per government rules.
4. Payment shall be released through Bank Account after submission of Bill against work done. Agency has to submit the bank's details to which amount may be remitted.
5. All disputes are subject to exclusive jurisdiction of competent court and forum in Patna, India only.
6. The Executive Engineer with the approval of competent authority shall provide any time extension, if required upon submission of proper justification for the delay by the Contractor during execution of the work keeping into consideration the following points:
 - 1) The contractor must apply to the Engineer-in-charge in writing for extension of time.
 - 2) Such an application must state the grounds that hindered the contractor in the execution of the work within the stipulated time.
 - 3) Such an application must be made within 14 days of the date on which such hindrance arose.
 - 4) The Engineer-in-charge must be of the opinion that the grounds shown for the extension of time are reasonable.
7. IITP will deduct a sum @ 1% of the bill amount, where electricity for the work is used from the institute source. The agency has to make their own arrangement for taking electricity, if not given by IITP.

CLAUSES OF CONTRACT

Clause – I

Compensation for Delay @ 1% per week and part thereof of maximum to 10% for the work which was completed during the duration beyond the stipulated period of time and no extension granted.

Clause – 2

Measurements of Works: - All running account and Final bills shall be in computerized Measurement Books (CMB's) and Bills to be submitted by the contractor as per Section-7 of CPWD works manual.

All measurements and levels shall be taken jointly by the Engineer (civil) nominated for the works and by the contractor or his authorized representative in consultation with Executive Engineer of the works for the works done in the preceding month and such measurements shall be duly signed and dated in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties and to be brought to the notice of EE in-charge of works for its settlement. The duly recorded computerized running account bills with "certificate of payment" and corresponding progress photographs shall be forwarded to Executive Engineer at Institute Works Dept. for release of payment of bills. The amount admissible will be paid by 10th working day after the day of receiving of the bill.

CERTIFICATE FOR PAYMENT:

It is certified that various items of works claimed in the -----R/a bill by the contractor----- has been completed to the extent claimed and at appropriate rates and that the items are in accordance with and fully confirming to the standard and/or prescribed specifications and drawings. We further certify that we have checked the measurement to the extent of hundred percent each items claimed in this bill. As net amount of Rs. ----- (Rupees-----) is recommended to be paid to the contractor making the total up to date payment of Rs.----- (Rs.-----)

Quality and rates are verified. The material supplied and work done confirm with the tender specifications.

Assistant Engineer

Clause – 4

Contractor Liable for damages, defects during maintenance period: - If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road curb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever of if any defect, shrinkage or other faults appear in the work within twelve months after a certificate final or otherwise its completion shall have been given by the EE CIVIL as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer in charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

Clause 5 :Minimum Wages and age of workers:

No labour below the age of 18 years shall be employed on the work. The contractor shall comply with all the provision of the minimum wages Act, 1948, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought from time to time.

CLAUSE 6: Directions for execution of works.

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respect of the EE CIVIL of the Institute who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

Jurisdiction: all matters arising out or in any way connected with this contract shall be deemed to have arisen in Patna and only the courts in Patna shall have jurisdiction to determine the same.

CLAUSE 8:EXECUTION OF ITEMS OTHER THAN B.O.Q ITEMS

If any items are required to be executed, other than the B.O.Q items for the completion of works, then the item will be taken from DSR' 2021. The payment for this items will be made as per the DSR'2021 rates if the item is present in DSR or as per the market rate analysis for the items not present in the B.O.Q . By applying the percentage rate plus or minus on the DSR rate.

UNDERTAKING ON LETTER PAD OF THE AGENCY

To,

**The H o D (IWD)
IIT Patna, Bihta,
Bihar, India
801106**

Dear Sir,

We _____, address
_____, do hereby declare that our firm is not required to get

registered under the EPF and ESIC scheme of the government.

We through this undertaking confirm and undertake that we shall be liable and responsible for all labour regulated laws.

Yours Faithfully

Place:

(Signature)

Time:

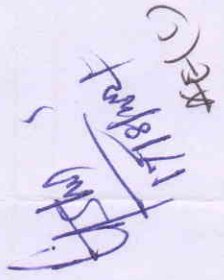
LIST OF APPROVED MAKE OF MATERIALS:

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the Engineer-in-Charge are List below. However, approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to written approval of the alternate brand by the Engineer-in-Charge of IIT Patna. Wherever available, ISI brand materials should be used, in case of non-availability of ISI brand materials, written approval required from IIT Patna.

Sl. No	MATERIALS	APPROVED MAKE
1.	MS pipe, Flat, Angle, channels	JINDAL, TATA, RINL
2.	Glass	Modi Guard, Saint-Gobain ISI marked
3.	Pre-laminated board	ASIS, NOVAPAN, ARCHID PLY, CENTURY, KITPLY
4.	Enamel Paint, Primer	ASIAN, NEROLAC, BURGER, BRITISH
5.	False ceiling	Aerolite, Gypsum India
6.	PVC pipe and fittings	Supreme, Prince, Ashirwad
7..	Cement	Ultratech, Jaypee, Ambuja

H o D (IWD)

Rate as per DSR 2018							Annexure-I	
Estimating and costing of Construction of MS Frame for fixing of False Ceiling and Partition work for Machining Centre lab.(TBI) for ME Dept. at workshop-16B' in IIT Patna								
SN	Description of items	L,m	B,m	H,m	Qty	Units	Rate, Rs.	Amount, Rs.
1	12.58 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.							
2	10.16 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm, of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing. 1 segment 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. all complete.	7.65	3.55		27.16	sqm	1759.75	47790.41
								0.00



 17/8/2018
 (3)

10.16.1	Hot finished welded type tubes, including base plate by 40*5 MS patty, Rectangular tube size (80*40 mm*3.2), 25*25*2.6 mm and (50*25*2.6)mm. Qty- Total wt of MS work=531 kg.	531	kg	143.45	76171.95
3	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				0.00
13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution sqm	30	sqm	138	4140.00
5	RCC fastener 200 mm long	22	each	30	660.00
6	21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
21.1.1.3	21.1.2.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	33.750	kg	554.95	18729.56
MR	Fitting and fixing charge	4.200	m2	591.8	12.58.1
7	21.2 Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.				
21.2.2	Pre-laminated particle board with decorative lamination on both sides (new).	81	sqm	1046.9	84798.90
8	21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
21.3.1	With float glass panes of 4.0 mm thickness, Qty- $1*0.9*2= 1.8$ m2	1.8	sqm	999.6	1799.28
9	21.16 Providing and fixing Aluminium round shape handle of outer dia 100 mm with SS screws etc, complete as per direction of Engineer In Charge				0.00
21.16.1	21.16.3 Polyester powder coated minimum thickness 50 micron aluminium	4	each	88.95	355.80
10	9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete. (Rolling wheel is used in place of Door closer as per demand of Lab. incharge)	2	each	1003.5	2007.00
	materials				0.00

Handwritten signature and initials: *AE(C)*

11	MDSR/MR	Locks Ramsons								
12	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 9.97.2 250x10 mm	2	each	380					760.00
13		Door roller for sliding door,	2	each	88.1					176.20
			2	each	103.55					207.10
			Total							237596.20
			Add Cost index 19.61% on DSR items i.e. ((Rs.325150.05-900-760)*19.61%)							46314.15
			G.Total							283910.35
			Say							Rs.2,83,910/-

Add Cost index 19.61% on DSR items i.e. ((Rs.325150.05-900-760)*19.61%)

[Signature]

(Dr. M. Tiwari)

[Signature]

(Dr. A. Mahato)

[Signature]

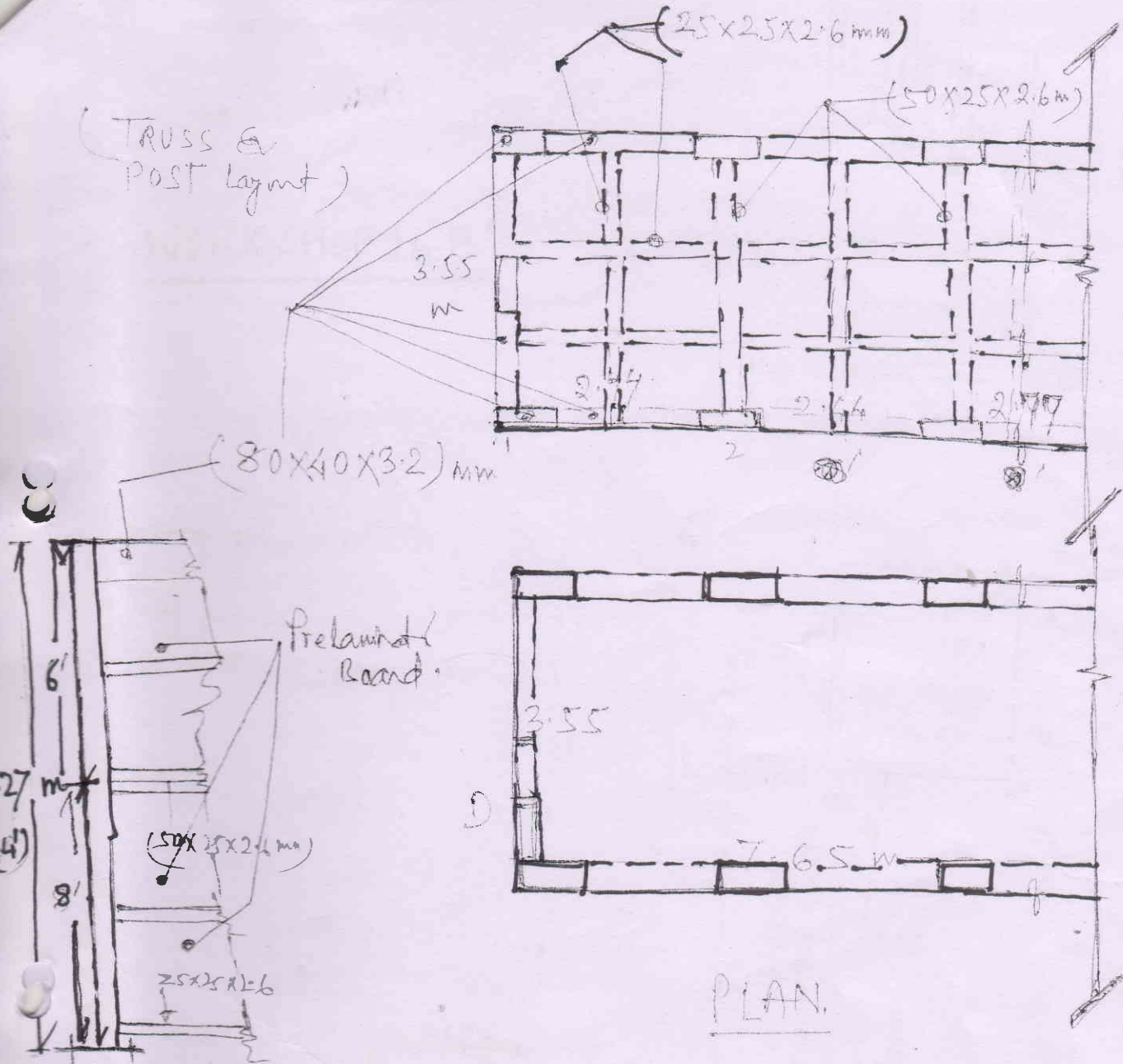
(Dr. P.K Tiwari)

[Signature]

(Dr. K. Patra)

[Handwritten notes]
 (Dr. A. Mahato)
 17/8/20
 P.K. Tiwari

(TRUSS & POST layout)



Section.

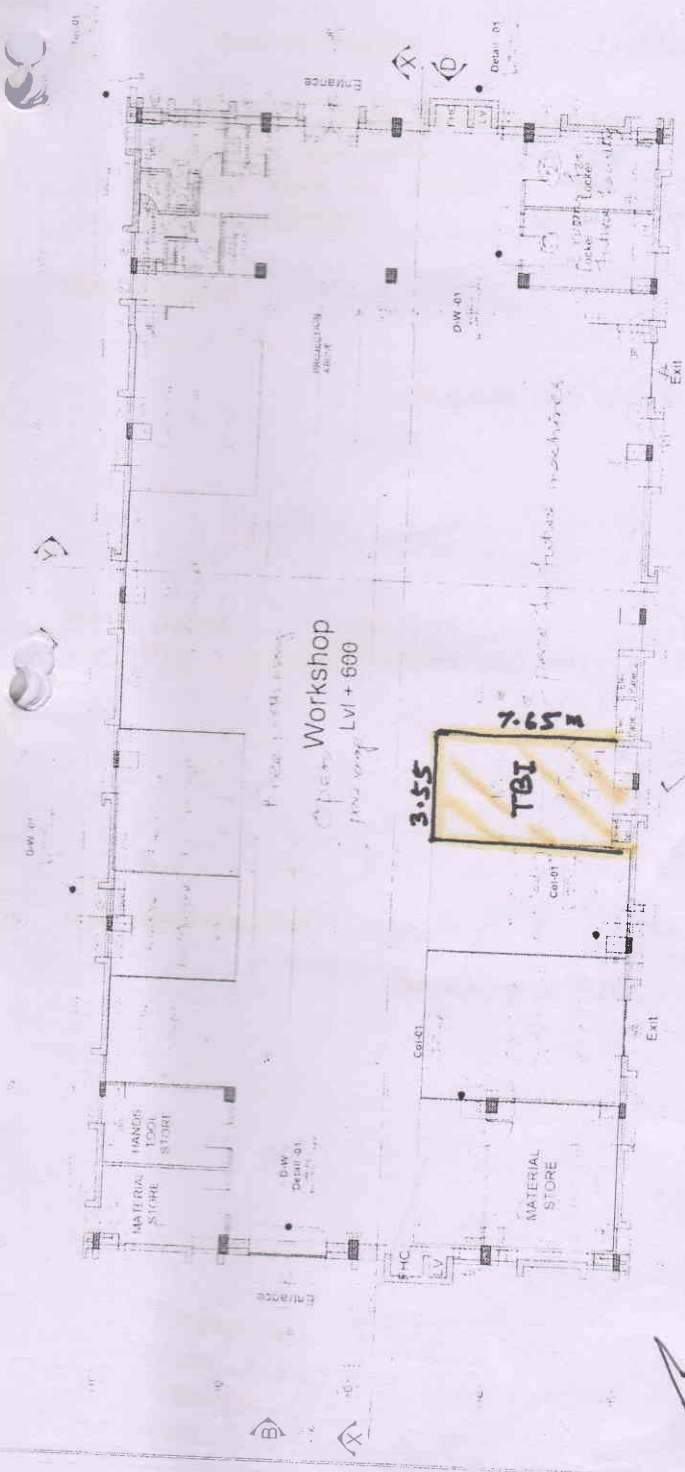
M.S. Framing, ~~at~~ partition with false ceiling
 work for Machine Centre of ME Dept.

Shukla

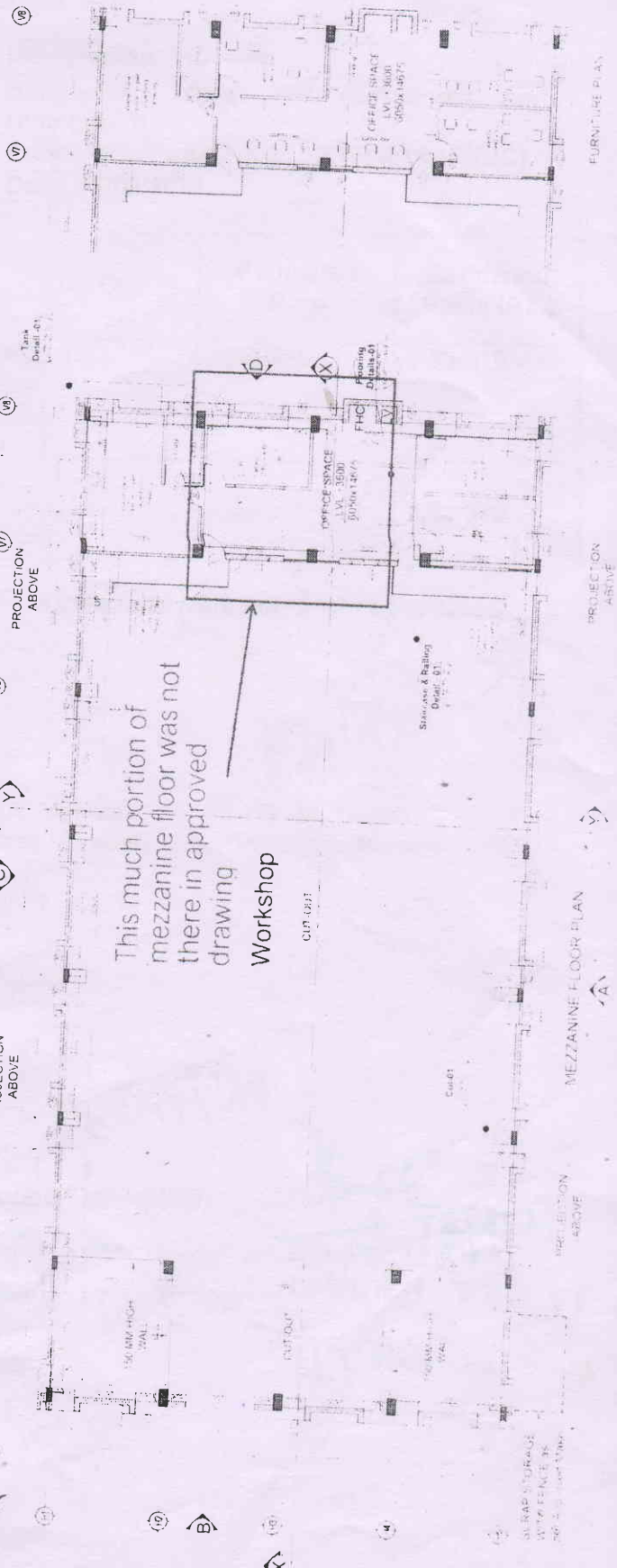
10/8/22

AE (C)

WORK SHOP 16 B'



GROUND FLOOR PLAN



MEZZANINE FLOOR PLAN

This much portion of mezzanine floor was not there in approved drawing
 Workshop

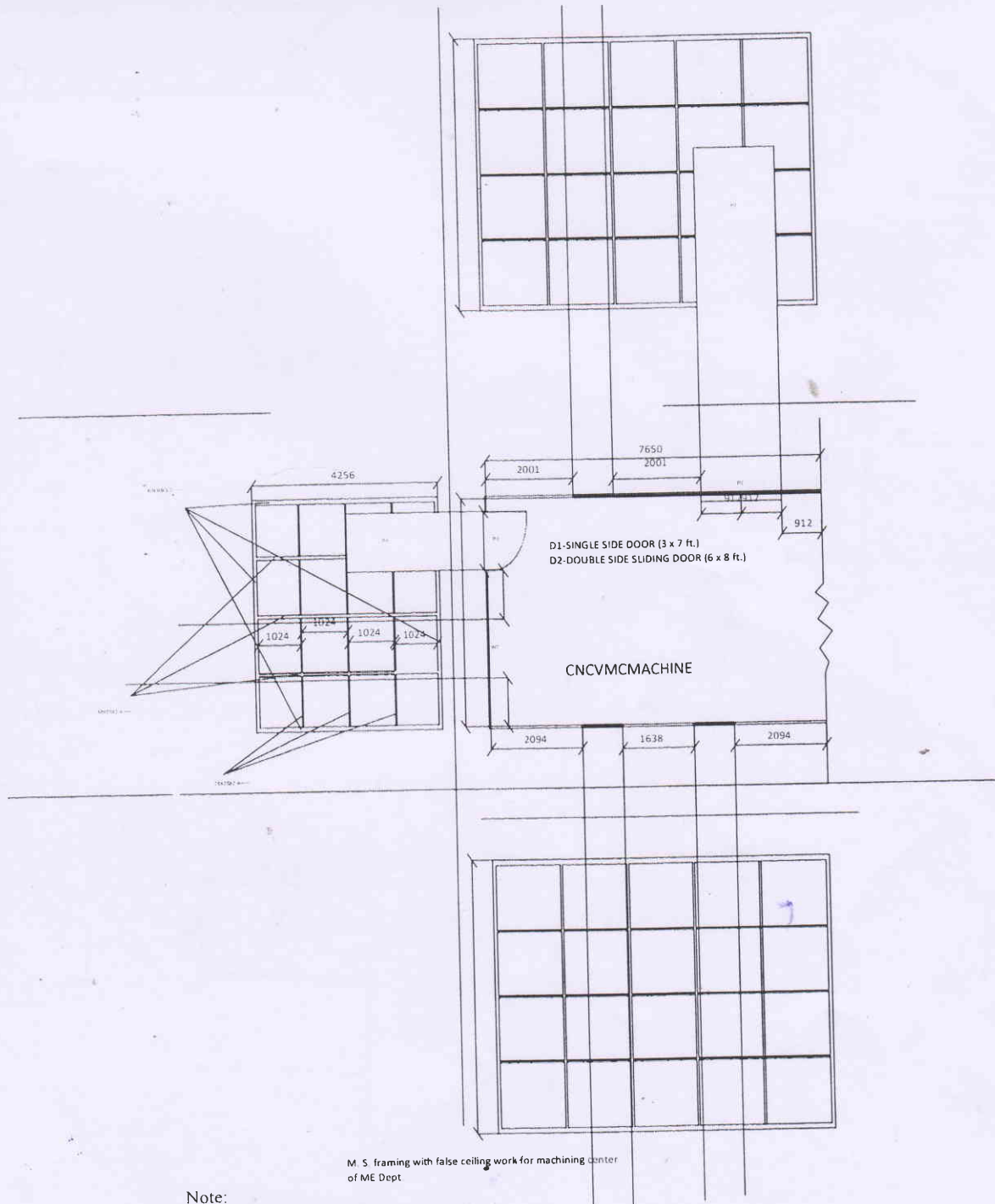
PROJECTION ABOVE

PROJECTION ABOVE

FURNITURE PLAN

PROJECT CODE	18001
PROJECT NAME	INDIAN INSTITUTE OF TECHNOLOGY PATNA, BIHTA
CLIENT	INDIAN INSTITUTE OF TECHNOLOGY PATNA, BIHTA
PROJECT MANAGEMENT	CENTRAL PUBLIC WORKS DEPARTMENT, PATNA
CONTRACTOR	NCC LIMITED
ARCHITECT	SURESH GOEL & ASSOCIATES ARCHITECTS ENGINEERS PLANNERS
CONTRACTOR	NCC LIMITED
CONTRACTOR	NAGARAJA CONSTRUCTION COMPANY HYDERABAD
WORKING DRAWING	
BUILDING TYPE	MECHANICAL WORKSHOP
DRAWING TITLE	GROUND FLOOR PLAN & MEZZANINE FLOOR PLAN
DRAWING NO.	18001-ITP-G1-S6-AP-01

11	Providing and fixing aluminum tower bolts. ISI marked, anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc complete 9 97 2250x10 mm	2	each
12	Door roller for sliding door.	2	each



Note:

- 1 Third row of partition will be glass.
- 2 All window location will be in third row of partition i.e. above two rows
- 3 Two bottom rows and on top row of partition will be of pre-laminated board.
- 4 Sizes of aluminum channel will be as shown in all side respectively horizontal, vertical and edges
- 5 All dimensions are in mm unless mentioned.