



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
ESTATE OFFICE
NOTICE INVITING TENDER

Telephone No. 022 2576-4060, 022-2159-6922 email id drestate@iitb.ac.in

IIT Bombay invites signed Technical Bid & Financial Bid for the following work from the contractors having similar experience in Central Government Departments / State Government Departments / Central or State Autonomous Bodies / Central or State Public Sector Undertakings / in reputed Private Companies. The detail of work is given below:

Sr. No.	Name of Work	Estimated Cost Incl 18% GST (In Rs.)	EMD (Rs.)	Mode and Type of Tender	Duration of contract
1	Providing and laying zinc-titanium roofing sheets replacing the existing steel pergola and skylight in the New CC Building. EO/A/WORKSHOP/WKS-267/25-26	Rs.3,37,61,926/-	Rs.6,75,000/-	Offline mode through Percentage Rate Tender	08 months

Intending bidders need to register themselves on the IIT Bombay portal i.e. <https://portal.iitb.ac.in/vrp/index.jsp> to get User ID and Password. Please visit https://portal.iitb.ac.in/vrp/vrp_srm_docs.jsp for configuration process and user manual. For queries regarding vendor registration, and configuration process please contact on 022 - 2159 3001 (MDM Help-desk).

All tender documents, forms, etc are available online on <https://www.iitb.ac.in/resources/vendors-tenders> and Central Public Procurement Portal (CPPP) e-tender publishing portal of the Government of India.

Date of submission of technical and financial bids in 2 separate envelopes is on 22.07.2026 **from 09:15 a.m to 11:15 a.m. in the tender box at 1st floor, Conference room, Estate Office.** The date of opening the technical Bid will be **22.07.2026 at 11:30 a.m.** The date of opening the financial bid shall be intimated later to the eligible tenderer.

The pre-bid meeting will held on 16.07.2026 at 03:30 p.m. Estate Office, IIT Bombay. Contractors who wish to attend shall intimate to this office with number of visitors attending it with their names at drestate@iitb.ac.in in an advance on or before 15.07.2026. Tenderers should be send by email all their queries, latest by 15.00 hours one day before to the scheduled Pre-bid meeting date to drestate@iitb.ac.in

Bidders who full fill the following requirements shall be eligible to apply.

1. Experience of having successfully completed similar works as detailed below during the last 7 years ending previous day of last date of submission of tenders.

i) Three similar completed works each costing not less than the amount equal to **40% of estimated cost,**

OR

ii) Two similar completed works each costing not less than the amount equal to **50% of the estimated cost,**

OR

iii) One similar completed work costing not less than the amount equal to **80% of the estimated cost** put to tender

“Similar work” for this clause means *Executed curved Zinc Titanium roofing with skylight and solar panels; ACP facade works and should have done the detailed engineering and preparation of shop drawings for the project.*

2. At least one of the above-mentioned projects of costing not less than the amount equal to **40% of estimated cost** should have been carried out for any Central or State Government Departments/ Institutions/Autonomous Bodies/ /Public Sector organizations.

Note: If works are carried out for more than one year, proportionate values will be considered.

3. Detail statement for work completed, work in hand including balance commitment of work should be enclosed for the last three years commencing from 1st April and ending with 31st March and the contractor should submit his details as per **Annexure 'A'** format with support of photo copies of the work order and work completion certificates, otherwise the bid capacity will not be calculated and his technical bid will be summarily rejected, and no Financial Bid will be opened.

4) **Completion certificates** in case of works carried out for Government department. The certificate should have been issued by an officer not below the rank of Executive Engineer.

5) List of Machinery and equipments.

6) Undertaking and declaration of information in respect of manpower and man-days, list of Technical Staff, Engineers (**in the field of civil Engineering**) with copies of their Degree/Diploma certificate, required for above-said work must be given in undertaking with official signature and seal/stamp.

7) Bank Solvency certificate **40% of the Estimated Cost** issued within one year from any Nationalized / Schedule Bank.

8) P. F. registration certificate.

9) P. F. challans of last 12 months (as per the labourers engaged during a particular month).

10) ESIC registration certificate and copies of ESIC challans of the last 12 months (as per the labourers engaged during a particular month). Contractor name should be mentioned in the challans else the agency will be disqualified. OR Contractors' all risks insurance (CAR policy)

11) PAN card.

12) GST registration certificate.

13) Income Tax Return for assessment year i.e. of 2023-24, 2024-25 & 2025-26.

14) Labor License obtained during last 03 years.

15) Litigation history of the agency is required to be submitted in the form in **Non Judicial Stamp paper Notarised** along with the application. A tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency. If there is no enquiry then undertaking has to be submitted in the format given.

16) Submit a **Demand Draft/FD/ BG of INR Rs.6,75,000/- (Earnest Money Deposit amount)**, drawn in Favour of "The Registrar, IIT Bombay" in a separate envelope along with a technical bid which will be released after preparation of comparative statement except for the lowest bidder who stood the lowest in the tendering processes.

17) Power of Attorney, **if any**.

18) Proof of Constitution: An affidavit in case of Sole Proprietorship, Partnership Deed in case of Partnership Firm, and Article of Association in case of Private / Public Limited Companies.

19) Index Sheet

The documents listed below from **Sr. No. 1 to 19** is mandatory for qualification in the technical bid evaluation process.

Note:

The selected bidder should submit a **Performance Guarantee for 5% of the estimated cost.** The time allowed for submission of the Performance Guarantee from the date of issue of the letter of acceptance is 14 days.

The contractor has to submit the challans, and/ or invoice copies of material as per the request of the Engineer in charge as and when required.

The validity of the bid will be valid for 180 days from the date of opening of tender.

The rates are taken from DSR 2023 & rate analysis.

If there are varying or conflicting provisions made in any one document forming part of the contract, the Engineer-in-charge shall be the deciding authority with regard to the interpretation of the documents and his decision shall be final and binding on the tenderer.

Contractors are strictly prohibited from engaging in any correspondence related to tender documents with anyone other than the Tender Section. Any violation will result in disqualification from all future tenders.

IIT Bombay reserves its right to verify all the credentials, quality, quantity, workmanship, other required details etc. of the bidders/contractors with their clients along with ongoing/completed projects based on on-site visit and other sources before finalization and award of the work. In case of requirements/emergency IIT Bombay reserves its right to award any quantity of works to any other contractor/agencies at his own risk and cost.

IIT Bombay reserves its right to reject/accept any or all applications for issue of blank tender forms and/or accept/reject any tender or re-invite the tenders without assigning any reason and without any reference.

Even though an applicant may satisfy the specified criteria, he would be liable to disqualification if he/she has:

- Made misleading or false representations or deliberately suppressed the information in the forms, statements and enclosures required in the application for eligibility.
- Record of poor performance such as, slow progress of work, abandoning of work, not properly completing the contract, or financial failures/ weaknesses etc.

The employer reserves the right to accept or reject any application and to annul the qualification process /Tender process and reject all applications at any time without assigning any reason or incurring any liability to the applicants.

Signature
10/07/2026
Superintending Engineer (I/C)
Signature 10/07/26 *Signature*
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INDEX SHEET

Sr. No.	Content	Page No. From - To
1	Experience of having successfully completed works during the last 7 years ending last day of the month previous to the one in which applications are invited : Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender, OR Two similar completed works, costing not less than the amount equal to 50% of the estimated cost put to tender Or One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.	
2	Submit a copy of the information in respect of manpower/mandays for above said work must be given in undertaking with official signature and seal/stamp.	
3	Bank Solvency certificate 40% of estimated amount issued within one year from any Nationalized / Schedule Bank from the date of publishing of Tender.	
4	P. F. registration certificate.	
5	P. F. challans of last 12months.	
6	ESIC registration certificate and copies of ESIC challans of the last 12 months (as per the labourers engaged during a particular month).Contractor name should be mentioned in the challans else the agency will be disqualified.ORContractors' all risks insurance (CAR policy)	
7	PAN card.	
8	GST Registration certificate	
9	Income Tax Return for assessment year i.e. of 2023-24 ,2024-25 & 2025-26.	
10	List of Equipment's, Machinery, Tools.	
11	List of Technical Staff with copies of their Degree/diploma certificate <u>in the field of civil Engineering.</u>	
12	Earnest Money Deposit	
13	Power of Attorney, if any.	
14	Proof of Constitution: An affidavit in case of Sole Proprietorship, Partnership Deed in case of Partnership Firm, Article of Association in case of Private / Public Limited Companies.	
15	Litigation history of the agency is required to be submitted along with the application. A tender would not be awarded if any inquiry proceeding / criminal case is found pending against the agency.If there is no enquiry then undertaking has to be submitted in the format given.	
16	Annexure 'A'	
17	Labour Licence obtained during Last 03 years	
18	Completion Certificate	

DECLARATION

- (a) We are not involved in any litigation that may have an impact of affecting or compromising the works as required under this tender.
- (b) We are not black-listed by any Central/State Government/Public Sector Undertaking in India.
- (c) We hereby confirm and declare that M/s [Company Name] does not have any Litigation / Arbitration History with any Government department, Public Sector Undertaking (PSU), or Private Sector agency for works executed during the **last 5 years**.
- (d) I/we undertake that the documents submitted are genuine/authentic and nothing material has been concealed therefrom and that I/we are not debarred by any Government organization and are competent to have the contract. I/we understand that the contract is liable to be cancelled, if found to be having obtained, through fraudulent means/concealment of information.

(Signature of Authorized Signatory)

Name of the bidder: _____

Complete Address: _____

Address (Works), if _____

any: Contact Nos. _____

**TO BE SUBMITTED SEPARATELY IN OTHER ENVELOPE ALONG WITH
FINANCIAL BID**

**ANNEXURE 'A' (FORMAT)
TECHNICAL BID**

File No. : EO/A/WORKSHOP/WKS-267/25-26

Name of Work : Providing and laying zinc-titanium roofing sheets replacing the existing steel pergola and skylight in the New CC Building.

Name of the Contractor -----

Sr. No.	Name of Client	Name of Works	2022-23 (In Lakhs)	2023-2024 (In Lakhs)	2024-2025 (In Lakhs)	2025-2026 (In Lakhs)	
						Completed	Balance
			-	-	-	-	-
			-	-	-	-	-
Total Amount (In Lakhs)			-	-	-	-	-

Note : Contractor must submit his details as per Annexure 'A' with declaration stating that **he is possessing all the original copies of work orders and experience certificates, it will be produced as and when required to IIT Bombay.** However, if it is found false at later stage, the contractor will be debarred or blacklisted. Whereas, if information is not submitted as per Annexure 'A' format his bid capacity will not be calculated and his tender will be summarily rejected.

Superintending Engineer (I/C)

Signature of Contractor
Name & Address in full

WORKS UNDERTAKING

EO/A/WORKSHOP/WKS-267/25-26

To,
Superintending Engineer (I/C)
Indian Institute of Technology,
Powai, Mumbai – 400 076.

Sub : Providing and laying zinc-titanium roofing sheets replacing the existing steel pergola and skylight in the New CC Building.

Dear Sir,

We are hereby quoting all the rates for the attached schedule of short tender of the above mentioned job.

We hereby accept & signed all the General Terms and Conditions and special Conditions of Contract.

The work will be completed within specified time limit of 8 Months as mentioned in the notice inviting for short tenders.

The following information is required to be provided.

I / We agree to keep the tender open for One Hundred and Eighty (180) days from the due date of its opening / One Hundred and Eighty days from the date of opening of financial bid in case tenders are invited on 2/3 envelope system and not to make any modification in its terms and conditions.

	Male	Female
No. of Unskilled casual labour to be required per day.		
No. of Skilled casual labour to be required per day.		
Total Mandays required for completion of work.		

Thanking you,

Yours faithfully,

Signature of the Contractor
With official Seal / Stamp of the firm

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
POWAI, MUMBAI, MAHARASHTRA - 400 076

EO/A/WORKSHOP/WKS-267/25-26

ESTATE OFFICE

Name of work:- Providing and laying zinc-titanium roofing sheets over the existing steel pergola in the New CC Building.

Schedule of work					
Sr. No.	Description of work	Qty.	Unit	Rate	Amount
1	Dismantling steel work in built-up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including lowering down from any height and dismembering and stacking within 50 meters of lead etc. completed as directed. (Recovery of structural steel will be done @ Rs. 20 per kg from Item of work against actual weight if material is taken outside campus)	9103.00	kg	5.35	48701.05
2	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	9103.00	Kg	0.80	7282.40
3	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres. (0.80X (17.5-5)=Rs 10 per Kg	9103.00	Kg	10.00	91030.00
4	Carefully removing ACP sheet paneling with aluminium frame work and stacking the same upto 50mtrs distance as directed by Engineer-in-Charge all complete as directed	114.00	m2	191.00	21774.00
5	Removing any type of roofing sheets/rooftop skylight panels including ridges, hips, valleys, gutters etc and taking out the same outside IIT Campus including scaffolding etc. complete as directed. (Recovery of scrap will be done @ Rs. 5 per kg from Item of work against actual weight if material taken outside campus)	265.00	m2	156.15	41379.75
6	Truss Frame works in Hollow Structural Steel (HSS)- Detail Engineering, Fabrication, supplying and erecting M.S PEB Structure with Gutter and rain water channel using Hollow Structural sections (HSS), plates/sheets, rods, bars, flats, cleats, bolts, Foundation bolts, braced rods, purlins etc of all spans as per approved drawing and design. Welding with continuous arc welds as per design including sand blasting, hot dipped galvanized and epoxy finish with primer coat. (Welding shall be done using low hydrogen electrodes E - 7018 of ESAB or approved equivalent) The work includes cutting, straightening, placing in position of M.S members and welding wherever necessary and applying two coats of enamel paint of approved shade over a coat of zinc phosphate (primer coat) to all the members including cost of all materials, labour charges, wastage, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc complete as per Architectural/ Structural Drawings and specification. Lift of material upto 25 meter. Hot finished seamless type tubes; Make of HSS- Tata Structural, Jindal Steel, APL Apollo	20141.00	Kg	212.00	4269892.00
7	Providing and fabricating structural steel works in rolled sections like joists, channels, angles, tees, hollow sections and any other required sections etc. as per detailed designs & drawings for supports, rafters, purlins, railing, staircase and any other work including fixing in position with connecting plates, braces and welding, riveting, bolting as necessary including one coat of redoxide priming coat etc. complete as directed.	1126.00	kg	126.57	142517.82
8	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 1) In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	624.00	kg	117.01	73014.24
9	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 1) In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1222.00	kg	163.40	199674.80

10	Providing and fixing of double curved Zinc Titanium Alloy Standing seam as-25/430 Secret Fix STANDING SEAM ROOFING SYSTEM on 7th level in 0.7mm thick in comprising of the following layers as per the drawings-1) TOP LAYER- Zinc titanium Alloy standing seam profiled panels having 25/430 profile (25mm seam height & 430mm panel width)/ Tapered/ manufactured from zinc titanium alloy in Quartz Strat Plus finish in 0.7 mm minimum thickness. The material properties shall be as follows: Ultimate tensile strength: minimum 150N/mm², 0.2%Proof Stress: min 100 N/mm², Modulus of elasticity: 90,000 N/mm² Panels shall be fixed to the substructure using Stainless Steel Delta type fixing clips & sliding clips of suitable height with spacing as required for the windloads. The zinc manufacturer shall have all the required standing seam machines/ tools & design assistance in India & should have supplied zinc roofing/ cladding in projects in India. i) PLUS-The zinc roof sheets shall have a protection on its underside consisting of a 55 microns thick composite acrylate-urethane protective coating. The protective coating eliminates any risks related to possible corrosion due to contact with incompatible materials and where the underside of the roof sheets is not ventilated. It should be done at manufacturer facility only. No Third Party Coating should be done.ii) STRAT-On the top surface, zinc sheet shall have protective treatment	1211.00	m2	13880.00	16808680.00
	. An organic coating is applied in two layers, with a total thickness of 35 microns. This protective organic coating increases the corrosion resistance of zinc in certain environments.2) SECOND LAYER - GI Strip - 1.0mm thick Galvanised Steel strip having 100mm width3) THIRD LAYER- Delta Membrane - Anti Abrasive Breathable Membrane with Dimple height of 8.0mm4) FOURTH LAYER- Low Rib Sheet: 0.47mm TCT Hi-Tensile steel Bare Galvalume corrugated sheet having profile with nominal 3.5mm to 4.0mm deep ribs at pitch of 48mm to 50mm centre to centre distance.5) FIFTH LAYER-Thermal Insulation- 100mm thick 64 kg/m³ density Rockwool Insulation Layer with one side Vapour Control Layer / Aluminium Foil6) SIXTH LAYER - 1.5mm thick Galvanised Steel Z girt section7) SEVENTH LAYER- Hi Rib Sheet- 0.5mm TCT Hi-Tensile steel colour coated AZ150 perforated Galvalume sheet profile with nominal 28mm to 30mm deep corrugation & 200 to 250mm centre to centre distance.MS Purlins (not included in this item) at a spacing of 1000mm to 1200mm maximum centre to centre. Aluminium Connectors - Providing aluminium connectors to hold the flexible solar panels above the zinck roofing with neoprene rubber washer for protection of roof surface.				
	The zinc manufacturer shall regsitred office in India since more than 5 years & have all the required machines/ tools & design assistance in India & should have supplied zinc titanium roofing/ cladding in projects in India as per prequalification criteria of successful handover of Zinc projects of similar nature. PO copies of Indian projects older than 5 years to be submitted for approval by zinc manufacturers. The Installation to be carried out by specialised agency approved by zinc titanium manufacturer. The agency should have completed zinc titanium cladding works in India of the same brand for which they are quoting for in this project. Zinc Titanium Roofing Installer should have prior experience of Zinc roofing installation of similar nature & should be recommended from the manufacturer directly.Only Zinc Manufacturer should submit shop drawings regarding the Zinc roofing details Approval for the dwgs & Zinc shade should be given by Engineer Incharge/ Architect/ PMC. Zinc should have compliance with the EN988. Installation & design Assitance should be given by Zinc Titanium Manufacturer to Zinc Installer for smooth & quality execution work. Approved Make - VMZINC/ SILESIA/ IEQSA				
11	Supply & fixing of 0.7mm ZINC alloy flashing having width upto 250mm maximum in the same finish as that of the roof finish for Eaves, Gables, Ridges, Fascia etc. as required for site detailing.	136.00	Rmt	1841.00	250376.00
12	Supply & fixing of 2mm ALUMINUM alloy Gutter having width upto 1000mm maximum required as per site detailing, in contours length and Aluminium welded joint where unavoidable, with Zinc rich Aluminum cold galvanising finish- including all the layers beneath the gutter as mentioned in point 11 above for main roof. (RHS MS Box Section / Purlins to be calculated separately) at distance of 300mm Centre to centre for fixing of GUTTER on the surface)	80.00	Rmt	13600.00	1088000.00

13	Supply & fixing of ACP Panelling for exteriors and boxing with trap door : Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:(a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.(b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4 mm thick aluminium composite panel material consisting of 3 mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5 mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts,	134.00	m2	4747.64	636183.76
	washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding in Alu. section minimum weight @0.8kg per Rm in a grid of @600x600mm. The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminium Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places				
14	Providing and erecting at site steel tubular H – frame double scaffolding with bracings or cuplock system to all heights as directed by engineer in charge before commencement of work and removing the same after completion of all external work requiring double scaffolding.The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge	3600.00	m2	320.21	1152756.00
15	Providing and erecting mat scaffolding using H-frame wherever required upto 4.5m height as directed before commencement of work and removing the same after completion of all works requiring scaffolding.The plan area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge	500.00	m2	335.00	167500.00
16	Providing and erecting arrester/safety net in double layer mesh having first layer 4mm PP rope in 100mmx100mm and second layer with blue fish net with 18mm mesh supported by border rope and tie cord 12mm PP at terrace floor level (6th floor level) to prevent the debris from falling on ground during progress of work and keeping the same during the entire period.	1200.00	m2	113.00	135600.00
17	Fixing temporary partition during execution of work at site made up of plywood/ GI sheet including vertical support of props/teakwood/ plywood, transportation, lead, lift, removing the partition after completion of work etc. completed as directed.	1200.00	m2	390.00	468000.00

18	Providing and fixing aluminium section for door frame, partition mullion/ section etc. of required size of 15 micron anodized including fixing with required fittings such as screws and other required fittings including fixing in proper alignment, rectifying all damaged etc. completed as directed.	300.00	kg	500.00	150000.00
19	Providing and fixing 6mm thick toughen clear glass in panel of required size with 15 micron anodized glazing clips/ cleats as per same size fixed at nearby partitions with rubber gasket of required size at all sides including nails, screws and other required fittings etc. complete as directed.	117.00	m2	2771.00	324207.00
20	Providing and fixing reflective type sun control film of approved type of Garware make with cutting, fixing etc. complete as directed.	36.00	m2	1070.00	38520.00
21	Providing & fixing of aluminium Louvers in Glazing system & masonry as per drawing, in aluminium powder coated 50-60 micron (Pure Polyester) panels made out of 77mm long x 1.7 mm thick aluminium z strip fixed on aluminium outer profile 50mm x 50mm x 2mm thick, duly powder coated. The aluminium outer frame to be fixed on MS steel tubular section/brackets with mechanical metal dash fasteners make HILTI/Fischer as per approved shop drawings by the architect/client. All the vertical aluminium tube sections to be tied with the same tubular section and duly cleated with aluminium angle 38mm x 38mm x 4mm thick for strength. Item to allow for blanking off with 4mm thick FR B1 grade ACP Sheet cladding (Interior Grade).	337.00	Kg	745.00	251065.00
22	Providing and fixing unperforated aluminum panel ceiling of consisting of panel 75mm and 150mm wide x 15.50mm deep and of 0.50 mm thick TCT (Total Coating Thickness) with bevel edge, panel length upto 6m, coil coated on a continuous paint line, double baked and roll formed from enameled corrosion resistance aluminum alloy for higher strength and good roll forming characteristics. The panels abut each other with a narrow V groove. Panel colour shall be of metallic finish of approved shade. Panel shall be clipped to a baked enameled panel carrier of 32mm wide x 39mm deep and 0.95mm thick in standard length of 5mm ade of doubled baked enameled aluminum alloy black in colour with cutouts to hold the panels in a module of 150mm at a distance of 1.2m c/c. Panel carrier shall be suspended by means of GI suspension rod 4mm diameter which is connected to GI hook fixed in ceiling and a galvanized suspension spring clip at a distance of 1.00m c/c or to be fixed with required size SS screws/ fastners and washer directly with RCC structure. Profile of size 30mm wide x 15mm deep with square edge of 0.35mm thick aluminum of approved colour or same colour as of panels shall be used as edge angle/ wall angle. Panel splices made out of black enameled aluminum shall be used to joint wo panels. Carrier splice made out of black enameled aluminum 0.95 mm thick.	415.00	m2	1861.00	772315.00
23	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm	326.00	m2	1447.57	471907.82

	at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cut-outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum moisture resistant board conforming to IS: 2095- Part I				
24	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross 'T' of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc.,	298.00	m2	2316.66	690364.68
	wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T'. Bottom exposed with 24 mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. sqm 2158.15Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mKWith 16 mm thick beveled tegular mineral fibre Anti- microbial false ceiling tile confirming to ISO 5 (class 100) specifications				
25	Providing & Fixing Skylight (On Terrace), One side sloping with High performance Glass as per specs (10mm Clear Toughened HIGH PERFORMANCE GLASS VLT >40, SHGC < 0.35 + 0.89mm Sentry Dupont + 10mm clear toughened) in Pure Polyester Powder cating AAMA 2605 aluminium and including all harware, EPDM gaskets, 2mm thk. aluminium flashing, capping etc. complete. The Vendor to provide shop drawings and structural and wind loading calcualtion for system integrity, pressure equilisation and structural stability. Vendor shall conduct all relevant test. Appropriate profiles of Silicone / EPDM gaskets shall be inserted between aluminium frames/beadings and glass; as well as both inside and outside around the periphery of the skylight to make the skylight air and water tight. Make for glazing: SGG Pacific Sky or equivalent, Glasses to have UV protection film/qualityThe system shall be specially designed with horizontal Aluminium sections of grade 63400 WP .	62.00	m2	4455.00	276210.00
	All Aluminium sections shall be polyester powder coated to 50-60 microns as per colour to be approved by Architect. The Aluminium horizontal support members of foyer will be supported on MS support framework.(MS support structure item taken separately). The system to be designed to withstand , seismic movement , thermal movement and structural safety . The item also includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of laminated glass panel units, scaffolding and other incidental charges including wastages etc.				

26	Disposing debris, loose stones, boulders, concrete pieces broken etc. collected and stacked as directed including loading in trucks, transporting out of IIT Campus including obtaining approval from Government/ private land owners for disposing off on to their approved location. The contractor will be solely responsible for disposing debris out of campus and the debris are to be removed from site within 72 hours from stacking (30% voids will be deducted from actual measurement for debris, loose stones, boulders, concrete pieces).	50.00	m3	697.00	34850.00
Total Amount Rs.					2,86,11,801.32
Say Rs.					2,86,11,801.00
At Par					
(In words.....%).....% Above					
(In words.....%).....% Below					
Amount Rs.					
CGST 9%					
SGST 9%					
Net Amount Rs.					
Say Rs.					

(Rupees.....)

(Rates for all items & net amount of total to be filled with figure and words. If it is not done, it will be assumed as incomplete tender & tender opening committee will reject your offer at the time of opening of tenders/quotations).

Note:

- 1) If you will engage labourer 20 or more any day, you have to get labour licence as per contract Regulation & Abolition Act 1970 Rule 1971, and also, you have to keep all such record for inspection to the Principal Employer. If you will engage labour up to 10 Nos. per day, you have to file returns after completion of work as per Building & Construction Act to the Office of Regional Labour Commissioner (Central), Sion, Mumbai.
- 2) This schedule of work is legal documents of Estate Office, IIT Bombay and directed to enlisted contractors to get the copy of schedule of work to fill the rates and can submit his offer. No changes in schedule of work is allowed i.e. item description, units, quantity, rates, etc. If noticed his offer will be rejected and the contractor will be blacklisted or any other strict action will be initiated against him.
- 3) This work is to be executed as per the the clauses mentioned in the tender document signed by you. In addition to the existing safety clause of the tender documents a penalty of Rs.5,000/- (per case) will be recovered from the bills of the particular work, in case any safety violations are noticed.
- 4) Tender will be rejected if white ink applied for correction in the schedule of work.
- 5) Taxes as per government notification time to time.
- 6) Contractor must pay GST Taxes to concern authority within 30 days time limit after receipt of payment from IIT Bombay & said record must be submitted to IIT Bombay Accounts Section, otherwise action will be taken as deemed fit.
- 7) If any malpractices / fraud / negligent professional behaviour or any discrepancy / inconsistency / disparity / deviation / disagreement / dissimilarity / mismatch noticed, their contract will be terminated by issuing one month notice by following legal procedure and will be blacklisted and informed to all Government Authorities and Organisations.

Superintending Engineer (I/C)

906/3 12/13 12/13

Signature of the Contractor

Name & Address in full