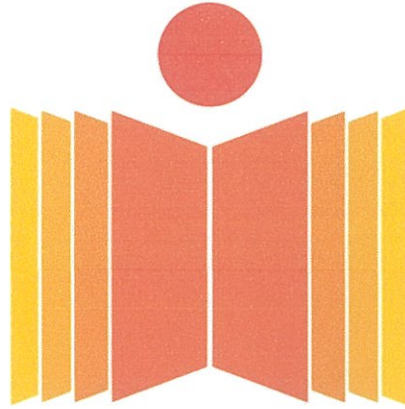


NIT No. IITH/CMD/NIT/CPPP/2019-20/28

TENDER FOR

**Name of Work: Construction of Entrance spaces at IIT Hyderabad, Kandi
(SH: Precast security cabins, main gate, access control
and precast compound wall)**



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Volume -2

Financial Bid

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INDEX

NIT No.: IITH/CMD/NIT/CPMP/2019-20/28

**Name of Work: Construction of Entrance spaces at IIT Hyderabad, Kandi
(SH : Precast security cabins, main gate, access control and
precast compound wall)**

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PAYMENT SCHEDULE

All running / intermediate & final payments shall be made to the Contractor in accordance with the following schedule:

1. Unless explicitly stated otherwise in the Tender Documents, the payment shall be as per provisions of schedule F and payment shall be as per actual measurements in accordance with the payment schedule on submission bill by the contractor.
2. The total plinth area of a building shall be sum of plinth area at every floor including basement, if any.
3. The following **shall not be** considered for plinth area calculation for payment (The bidder shall consider this aspect while quoting the rates for buildings):-
 - a. The mummy and machine room.
 - b. Internal service shafts/ ducts. However the shafts/ ducts covered at top shall be measured at one floor level only.
 - c. Lift wells. However lift wells covered at top shall be measured at one floor level only.
 - d. Lofts
 - e. Pergolas, approach ramps, external staircases and space frames.
 - f. Column projections, slab projections & chajjas beyond wall face.
4. For porticos 50% of the plinth area shall be considered for payment.
5. 50 % of plinth area of Uncovered/ unprotected balcony/ verandah shall be considered for payment.
6. Nothing extra shall be paid for services of various consultants such as architectural, structural, green building, services, proof checking, liaison consultants for obtaining approvals of local bodies etc; and related expenses for consultancy services. The agency shall quote the rates taking this aspect also into consideration.
7. Nothing extra shall be paid for testing of various materials, cost of materials used for testing, handling & transportation and related expenditure. The bidder shall quote the rates taking this aspect also into consideration.
8. Nothing extra shall be paid for creating mock-up of elements, handling & transportation and related expenditure. The bidder shall quote the rates taking this aspect also into consideration.
9. All duties, GST, fees, octroi and other levies, payable by the Contractor for which nothing extra shall be paid. The bidder shall quote the rates taking this aspect also into consideration. Payments made to Government departments for obtaining local body approvals shall be borne by the Institute.
10. Payment shall be made as per the schedule of payment as detailed below:-

Schedule of Payment

S.H-B/Part-I: Schedule of Payment for Pre-cast Building for West Side security Cabins & Entry Main gate

. (For intermittent payments, Pro-rata payment will be released based on physical progress)

Main Item No.	Sub Item No.	Stage of activity	Breakup of % of Item on total cost of Sub Item	% of Item on total value
1.0	<u>PLANNING COST</u>			1.00%
	1	Planning, Detailed Design, third party vetting and approval of the same by the Engineer-In-Charge.		
	1.1	On approval of All Architectural Drawings.	0.30%	
	1.2	On approval of All Structural Drawings including proof checking by third party and approval from Engineer in Charge.	0.30%	
	1.3	On approval of All MEP Drawings (except shop drawings) including Proof Checking by third party.	0.40%	
2.0	<u>BUILDING COST</u>			60.00%
	2			
	2.1	Foundation work and RCC Work up to Plinth level	18.00%	
	2.2	Works up to Ribbed beam roof slab level including walls	27.00%	
	2.3	all finishing works, fixing windows, Doors, Counters, etc Complete	15.00%	
3.0	<u>SERVICES.</u>			13.30%
	3.1	Completion of all Internal water supply and sanitary installation.	2.00%	
	3.2	External Service Connection		
	3.2.1	Electrical external service connections	2.00%	
	3.2.2	Civil external service connections (water supply and sewer lines)	0.60%	
	3.3	Internal electrical installations	6.00%	
	3.4	Power wiring and plugs, external cabling for ELV systems	2.70%	

4.0	<u>DEVELOPMENT OF SITE</u>		2.20%
4.1	External plot development works including levelling, drains etc.,	1.70%	
4.2	Horticulture works		
4.2.1	Horticulture operations including 30 cm earth filling, grassing, tree plantation and shrubs	0.50%	
5.0	<u>F&M Works</u>		21.00%
5.1	UNINTERRUPTED POWER SUPPLY		
5.1.1	Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc.	4.10%	
5.2	LAN SYSTEM		
5.2.1	Supplying, installation, testing and commissioning of LAN System comprising of Core switches & L2 switches with 10 G, 10 Giga SFP modules, WIFI Access points, WIFI controller, Network Management Software, Racks, CAT 6A cable, Patch Panels, OFC etc.	1.00%	
5.3	STREET LIGHTING WITH LED		
	Supplying, installation, testing and commissioning of LED Street/ Compound/ High mast/ Pathway/ Landscape Lighting for the entire Campus	0.50%	
5.4	EMERGENCY LIGHT & ILLUMINATED SIGNAGES		
	Illuminated signage's	0.10%	
	Motorized Steel Gates as per approved design and drawing.	11.00%	
	Supply, Installation, Testing and Commissioning of Boom Barriers as per Manufacturer's/ technical specifications with inbuilt electronic controller for operating the barrier and suitable for interfacing to access controller, safety sensor for detecting the objects below the barrier. Barrier length shall be suitable for carriage way of 10m foldable or otherwise, with suitable accessories like poles, enclosures and all necessary hardware, accessories as required for complete installation including integration of available RFID system with the Boom barrier.	4.30%	
6.0	<u>MISCELLANEOUS ITEMS</u>		2.50%
6.1	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	2.00%	

6.2	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarsesand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	0.50%	
	Total		100.00%

Total Lump sum amount quoted for this stage :

In figures (INR)	
In words (INR)	

S.H-C/Part-I: Schedule of Payment for Pre-cast Building for East Side security Cabins & Exit Main gate.				
(For intermittent payments, Pro-rata payment will be released based on physical progress)				
Main Item No.	Sub Item No.	Stage of activity	Breakup of % of Item on total cost of Sub Item	% of Item on total value
1.0	<u>PLANNING COST</u>			1.00%
	1	Planning, Detailed Design & Approval from Statutory Bodies, third party vetting and approval of the same by the Engineer-In-Charge.		
	1.1	On approval of All Architectural Drawings from local bodies and Engineer in Charge.	0.30%	
	1.2	On approval of All Structural Drawings including proof checking by third party and approval from Engineer in Charge.	0.30%	
	1.3	On approval of All MEP Drawings (except shop drawings) including Proof Checking by third party.	0.40%	
2.0	<u>BUILDING COST</u>			56.00%
	2.1	Foundation work and RCC Work upto Plinth level	17.00%	
	2.2	Works upto Ribbed beam roof slab level	14.00%	
	2.3	Construction walls, all finishing works, fixing windows, Doors, Counters, Structural glazing etc Complete	25.00%	
3.0	<u>SERVICES.</u>			13.00%
	3.1	Completion of all Internal water supply and sanitary installation.	2.00%	
	3.2	External Service Connection		
	3.2.1	Electrical external service connections	1.80%	
	3.2.2	Civil external service connections	0.60%	
	3.3	Internal electrical installations	6.00%	
	3.4.1	Power wiring and plugs	2.00%	
	3.4.2	Telephone Conduits	0.10%	
	3.4.4	Quality assurance	0.50%	
4.0	<u>DEVELOPMENT OF SITE</u>			2.40%
	4.1	Levelling	1.00%	
	4.2	Sewer	0.40%	
	4.3	Filter Water Supply		
	4.3.1	Distribution lines 100mm dia and below	0.20%	
	4.4	Storm water drains	0.30%	
	4.5	Horticulture works		

	4.5.1	Horticulture operations including 30 cm earth filling, grassing tree plantation/shrubs and potted plants ect..	0.50%	
5.0	<u>E&M Works</u>			24.40%
	5.1	UNINTERRUPTED POWER SUPPLY		
	5.1.1	Supplying, installation, testing and commissioning of online 3 phase UPS System with 30 minutes back up including batteries, interconnecting cables, battery racks etc.	4.80%	
	5.2	LAN SYSTEM		
	5.2.1	Supplying, installation, testing and commissioning of LAN System comprising of Core switches & L2 switches with 10 G, 10 Giga SFP modules, WIFI Access points, WIFI controller, Network Management Software, Racks, CAT 6A cable, Patch Panels, OFC etc.	1.00%	
	5.3	STREET LIGHTING WITH LED		
		Supplying, installation, testing and commissioning of LED Street/ Compound/ High mast/ Pathway/ Landscape Lighting for the entire Campus	0.50%	
	5.4	EMERGENCY LIGHT & ILLUMINATED SIGNAGES		
		Illuminated signage's	0.10%	
		MOTORIZED STEEL GATES	13.00%	
		Supply,Installation,Testing and Commissioning of Boom Barriers as per Manufacturer's/ technical specifications with inbuilt electronic controller for operating the barrier and suitable for interfacing to access controller,safety sensor for detecting the objects below the barrier. Barrier length shall be suitable for carriage way of 10m foldable or otherwise, with suitable accessories like poles, enclosures and all necessary hardware, accessories as required for complete installation including integration of available RFID system with the Boom barrier.	5.00%	
6.0	<u>MISCELLANEOUS ITEMS</u>			3.20%
	6.1	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	2.50%	

	6.2	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarsesand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	0.70%	
		Total		100.00%
Total Lumpsum amount quoted for this stage :				
	In figures (INR)			
	In words (INR)			

S.H-B/Part-II & SH-C/Part-II: Schedule of Payment for 2.40 Mtrs height Pre-Cast Boundary wall.
(Length 590 Metres)
(For intermittent payments, Pro-rata payment will be released based on physical progress)

Main Item No.	Sub Item No.	Stage of activity	Breakup of % of Item on total cost of Sub Item	% of Item on total value
1.0 PLANNING COST				1.00%
	1	Planning, Detailed Design & third party vetting and approval of the same by the Engineer-In-Charge.		
	1.1	On approval of All Architectural Drawings f.	0.50%	
	1.2	On approval of Structural Drawings including proof checking by third party and approval from Engineer in Charge.	0.50%	
2.0 BOUNDARY WALL COST				99.00%
	2	Boundary wall with 2.40 metre normal height from GL . With 100 mm thick precast RCC horizontal panels of specified pattern and design, with all necessary foundation & footings. Cost includes dismantling of existing RR masonry boundary wall and inclusive of salvage value of the dismantled materials and disposal of debris.		
	2.1	Foundations & Erection of RCC Columns	30.00%	
	2.2	Fixing of wall Panels & finishing works	69.00%	
Total				100.00%

Total Lump sum amount quoted for this stage :	
In figures (INR)	
In words (INR)	

S.H-D: Schedule of Payment for 3 (Three) nos Pre-Cast One Guard security cabins .				
(For intermittent payments, Pro-rata payment will be released based on physical progress)				
Main Item No.	Sub Item No.	Stage of activity	Breakup of % of Item on total cost of Sub Item	% of Item on total value
1.0	<u>PLANNING COST</u>			1.00%
	1	Planning, Detailed Design third party vetting and approval of the same by the Engineer-In-Charge.		
	1.1	On approval of All Architectural Drawings	0.30%	
	1.2	On approval of Structural Drawings including proof checking by third party and approval from Engineer in Charge.	0.30%	
	1.3	On approval of All MEP Drawings (except shop drawings) including Proof Checking by third party.	0.40%	
2.0	<u>BUILDING COST</u>			80.50%
	2.1	Foundation work and RCC Work up to Plinth level	24.00%	
	2.2	Works upto Ribbed beam roof slab level	20.00%	
	2.3	Construction walls, all finishing works, fixing windows, Doors, Counters, Structural glazing etc Complete	36.50%	
3.0	<u>SERVICES.</u>			17.00%
	3.1	External Service Connection		
	3.2.1	Electrical external service connections	3.00%	
	3.2.2	Civil external service connections	1.00%	
	3.3	Internal electrical installations	9.00%	
	3.4.1	Power wiring and plugs	3.00%	
	3.4.2	Telephone Conduits	0.20%	
	3.4.4	Quality assurance	0.80%	
4.0	<u>DEVELOPMENT OF SITE</u>			1.40%
	4.1	Levelling	1.00%	
	4.4	Storm water drains	0.40%	

5.0	<u>E&M Works</u>			0.10%
	5.1	EMERGENCY LIGHT & ILLUMINATED SIGNAGES		
	5.1.1	Illuminated signage's	0.10%	
		Total		100.00%
Total Lumpsum amount quoted for this stage :				
In figures (INR)				
In words (INR)				

GENERAL ABSTRACT

The Contractor shall reproduce the lumpsum amounts quoted against each subhead in the table below:

Sl No	Description	Amount in Figures	Amount in Words
1	<p><u>S.H-B/Part-I:</u></p> <p>Pre-cast Building for West Side security Cabins & Entry Main gate.</p>		
2	<p><u>S.H-C/Part-I:</u></p> <p>Pre-cast Building for East Side security Cabins & Exit Main gate.</p>		
3	<p><u>S.H-B/Part-II & SH-C/Part-II:</u></p> <p>2.40 Mtrs height Pre-Cast Boundary wall (Length 590 Mtres)</p>		
4	<p><u>S.H-D:</u></p> <p>3 (Three) nos Pre-Cast One Guard security cabins</p>		
	Total		

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