



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY
DESIGN AND MANUFACTURING KANCHEEPURAM**
(An Institute of National Importance under MoE, Government of India)
Melakkottaiyur, Off Vandalur-Kelambakkam Road, Chennai – 600 127,
Tamil Nadu.

E-NOTICE TENDER (E-PROCUREMENT THROUGH CPPP)

Indian Institute of Information Technology Design and Manufacturing (IIITD&M) Kancheepuram invites **e-tender under TWO BIDS** with prequalification systems from the vendors who fulfils the eligibility as given below in the campus.

Sl. No.	Particulars	Quantity Required
1	Design, Construction and SITC of 8-layer synthetic flooring for a Basketball court including suitable lighting installation, pole erection and all associated works at IIITDM Kancheepuram	As per Annexure-3

The tender document may be downloaded from the website <http://iiitdm.ac.in> or Central Public Procurement Portal <https://etenders.gov.in/e procure/app>.

The offers, in the prescribed format shall be submitted online at <https://etenders.gov.in/e procure/app> as per the tender document. No tender will be accepted in hard copy, fax, email or any other such means. The intending, bidders must be registered with Central Public Procurement Portal <https://etenders.gov.in/e procure/app>.

a) Tender Number /Date	IIITDM/191/2023-24/Engg/Civil/005; Dated: 21 st December 2023
b) Pre-bid meeting / Site visit	26 th December 2023; 11:00 Hrs.
c) Bid Submission	17 th January 2024; 15:00 Hrs.
d) Technical Bid Opening	18 th January 2024; 15:30 Hrs.
e) EMD	Rs. 59,840/- (submission of EMD through SBI E'Collect) https://www.onlinesbi.sbi/sbicollect/icollecthome.htm (or) Valid MSME exemption certificate must be attached
f) Security Deposit / Performance Guarantee	Successful Bidder shall submit the Security Deposit at 3% of Contract value.
g) Total Estimated cost. (Rs.)	Rs. 29,92,000/- (Excl. GST) 1. Civil Rs. 24,18,000/- (Excl. GST) 2. Electrical Rs. 5,74,000/- (Excl. GST)

TERMS & CONDITIONS GOVERNING THE CONTRACT

1. Eligibility Criteria: In order to be considered for the contract of the works as detailed under 'Techno-Commercial Bid' in this Tender Document the tenderer should:

1.1 "Having Similar works execution experience preferably awarded by the State Govt./Central Govt./Autonomous /Reputed corporate institutions/organizations, for the value enlisted below and executed on or after 01/01/2018.

- (i) Rs. 24.00 lakhs Excl. GST for a single work order
(Or)
- (ii) Rs. 15.00 lakhs Excl. GST each for two work orders
(Or)
- (iii) Rs. 12.00 lakhs Excl. GST each for three work orders

1.2 Produce the **valid work completion certificate(s) along with relevant work order** from the above-mentioned works.

2. Earnest Money Deposit:

2.1 Bidders shall Deposit EMD through SBI E'Collect. The amount must be through online mode and it shall be received on or before the last date and time of bid submission and the payment proof of EMD shall be attached along with the technical bid. Physical mode of payment i.e. Banker cheques or Demand drafts is not acceptable.

2.2 Steps for submission of EMD through SBI E'Collect.

- Go to link - [https://www.onlinesbi.sbi/sbicollect/icollecthome.htm`](https://www.onlinesbi.sbi/sbicollect/icollecthome.htm)
- Please select "IIITDM – KANCHEEPURAM A/C" from drop down list
- Please select "Earnest Money Deposit (EMD)" from Payment Category drop down list
- Kindly fill all tender details, contact details, EMD amount and make payment.
- After successful payment, the payment proof of EMD shall be attached along with the technical bid.

2.3 In the case of payment failure/ mismatch of particulars leads to cancellation of bid.

2.4 For the successful bidder, the EMD will be retained/ adjusted against the security deposit.

2.5 For the unsuccessful bidders, EMD amount will be refunded within 30 days from the date of issue of work order.

2.6 The bidder shall enclose cancelled Cheque/bank details to refund the EMD amount in case of unsuccessful bids.

2.7 EMD shall be forfeited if any tenderer with draw their offer with in the bid validity period

2.8 **Valid proof of MSME exemption shall be uploaded for to waive off the EMD and the classification of the enterprises should be updated in the current financial year i.e, 2023-24**

3. Security Deposit & Contract Agreement:

- 3.1 On receipt of notification of award, successful bidder shall be required to send the acceptance of work order within 07 working days.
- 3.2 Successful Bidder shall submit the Security Deposit of 3% of Contract value in the form of a Crossed Demand Draft/Pay Order/Banker's cheque/FDR drawn/Bank guarantee in favor of "The Registrar, IIITDM Kancheepuram", payable at Chennai within 07 (SEVEN) working days of the receipt of Notification of Award (NOA) / Award of Work order from IIITDM Kancheepuram (the Defect Liability Period as specified (i.e., 12 months after completion of work).
- 3.3 The successful bidder shall be required to sign a detailed contract agreement & commence the work within a 07 working days from the date of receipt of work order.
- 3.4 In case of failure to commence the work by the Contractor within 07 days after signing of the contract or handover of site, the Institute shall be at the liberty to terminate the Award and forfeit the Security Deposit.

4. Preparation of bids - Two bid system (simultaneous receipt of separate technical and financial bids):

- 4.1 **Technical bid** shall consist of only prequalification document along with supported documents as detailed below:
 - 4.1.1 Complete prequalification papers, Name of the Agency and also commercial terms etc., offered (**Note: Price column in this cover should be kept blank**).
 - 4.1.2 Duly filled and digitally signed Bid submission & self-declaration Proforma (**As per Annexure – 1**), EMD transaction details (SBI Collect e-Receipt), Cancelled cheques/bank details & GST Certificate.
 - 4.1.3 Duly filled and digitally signed copy of Technical Qualification Proforma (**As per Annexure – II**) along with a copy of work completion certificate as per the eligibility criteria referred in clause no. 1
- 4.2 **Financial bid/Techno commercial bid** indicating item-wise price for the items mentioned in the technical bid, special concession in rates if any applicable for Educational Institutions shall also be offered and indicated clearly.
- 4.3 **Both the covers should be submitted through online Central Public Procurement Portal <https://etenders.gov.in/eprocure/app> before due date and time.**

5. Technical terms:

- 5.1 The selected contractor will have to carry out "**Design, Construction and SITC of 8-layer synthetic flooring for a Basketball court including suitable lighting installation, pole erection and all associated works at IIITDM Kancheepuram**" which have been listed under the 'Techno-Commercial Bid' of this tender document. He shall be under obligation to carry out all of the works stipulated in the contract.

- 5.2 The material to be used by the Contractor should be conforming to reputed brands and ISI marks. Samples of all materials / fixtures as specified in 'Techno-Commercial Bid' shall be got approved before their use by the Contractor. Catalogues / Brochures are also to be brought by the Contractor along with samples wherever required.
- 5.3 Some of the basketball court construction considerations as follows:
- 5.3.1 Sub base construction should include necessary slope as per the actual site requirements and as per standard norms
 - 5.3.2 Each layer of the sub base surface should be free from rubbish, debris. The Final Layer Asphalt layer should be cured properly for minimum days in order to attain proper strength.
 - 5.3.3 Contractor shall be required to produce manufacturers 'test certificates' for the particular batch of materials/ products supplied to him. The tests carried out shall be as per relevant Indian Standards and shall be carried out at approved test houses specified by the Institute.
 - 5.3.4 The International Tennis Federation (ITF) and other required certified materials should be used for constructing synthetic basketball flooring and as per the specifications given in the Bill of quantities. Each layer should meet the required consumption ratio mention in the Bill of Quantities.
 - 5.3.5 The Synthetic flooring layer should not be laid during rain as it causes bubbles.
 - 5.3.6 All installations shall be tested as specified, in the presence of the Institute's Engineer-In-Charge. The Contractor shall provide all labour, equipment, and materials etc., required for the performance of the tests.
 - 5.3.7 The contractor shall duly submit a drawing and detailed methodology statement for the work in accordance to the materials/brands being used in the work.
- 5.4 Some of the instructions shall follow while erection of lighting poles, cable and lighting at Basketball courts as follows:
- 5.4.1 Prior to the execution of work, the design specification of poles and lighting along with the engineering sketch, lux level shall be submitted to the Institute's Engineering-in-charge and get the approval.
 - 5.4.2 The design and installation of basketball court lighting shall be strictly adhering to the guidelines of International Basketball Federation & Sports Authority of India (SAI).
 - 5.4.3 The lighting illumination on the playing area, free zone & free playing space shall be as per SAI standards.
 - 5.4.4 After the execution of work, the luminous flux on surface level shall be checked with the lux meter and the report shall be submitted to Engineer-in-charge of the Institute.
 - 5.4.5 The installed lights should be free from glare and uniformity of lighting is allowed to vary with in the range of 0.5 to 0.8. The fittings and SMC boxes installed shall have Ingress protection of IP65.

- 5.4.6 The pole earthing shall be carried out in accordance with the CPWD prescribed standards.
- 5.4.7 The installation of pole and pole bracket shall withstand the weight of the fittings and wind & allied forces affect.
- 5.4.8 All the products used in this work shall comply with IS standards, catalogue & warranty for the fittings shall be submitted to the Engineer-in-charge of the Institute.
- 5.5 The work shall be carried out as per the relevant CPWD general specifications & works manuals for civil and electrical works & Indian Electricity rules 1956 as amended up to date.
- 5.6 IIITDM Kancheepuram has Power to issue instructions etc., IIITDM Kancheepuram may in its absolute discretion & from time to time issue further Drawings if any, &/or written instructions, detailed directions & explanations in regard to:
- 5.6.1 Minor addition, reduction, omission or substitution of any work included in the Contract.
- 5.6.2 Minor variation or modification of the design, quality, character of any work.
- 5.6.3 Minor variation in the dimensions of any part of the works.
- 5.6.4 Minor discrepancy in the Drawings if any, or between the Bill of Quantities and / or Specification.
- 5.6.5 The removal from the site of any material brought thereon by the Contractor & the substitution of any other material.
- 5.6.6 The dismissal from the works of any person employed there-upon by the Contractor to carry out the work under the provisions of this Contract and its replacement by another suitable person within a given time frame at no additional cost to IIITDM Kancheepuram.
- 5.6.7 The opening up of or inspection of any work covered up, all other instructions issued to him covering other aspects of the Contract.
- 5.6.8 Bare joints in cables are not allowed. Under extra ordinary conditions Terminal blocks/Joint kits with required safety measures must be used instead of joints without any additional cost.
- 5.6.9 During the execution any wall/flooring/table cutting and finishing & making good also to be carried out without any additional cost.
- 5.7 The requirements given in the 'Techno-commercial bid' are only indicative and not exhaustive. Contractor shall be required to complete the project. The decision of IIITDM Kancheepuram authorities in this regard shall be final and binding on the Contractor.
- 5.8 Engineer-in-charge or any other representative/official deputed by the IIITDM Kancheepuram shall have the right to inspect or to test the materials to establish their conformity to the ordered specifications. The Contractor shall provide all reasonable facilities and assistance to such representative without any charges to the IIITDM Kancheepuram in this regard. Further, IIITDM Kancheepuram may direct the Contractor to get any/all materials/samples tested from specified organization(s) for conforming to the tendered specifications at the cost of the Contractor. In case, any inspected or tested material fails to conform to the ordered specifications, or workmanship is found to be unsatisfactory, IIITDM Kancheepuram may reject them and Contractor shall either replace the rejected material or make alternative arrangements necessary to meet the stipulated

specifications and rectify the defects pointed out in the workman ship, at no additional cost to IIITDM Kancheepuram.

- 5.9 Work shall be executed and completed as per the technical terms and conditions of this document. In case the Contractor fails to complete the assigned work within specified Period, IIITDM Kancheepuram may recover Liquidated Damage and/or terminate the Contract and/or forfeit the Security Deposit. IIITDM Kancheepuram on its part would be required to handover the site to the Contractor free from any encumbrance.
- 5.10 The Contractor shall at his own expense arrange for the safety provisions as appended during execution of the work or as directed by the Engineer-in-Charge, in respect of all labor directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith.
- 5.11 The Contractor shall be responsible for providing constant and adequate supervision of the work to ensure compliance with the provisions of laws relating to safety and for taking all practical steps necessary to prevent accidents.
- 5.12 Stores and Materials required for the works, brought by the Contractor, shall be stored by the Contractor only at places approved by the Engineer-in-Charge. Storage and safe custody of material shall be the responsibility of the contractor. The contractor shall ensure that no materials/ wastes/ equipment's are dumped at site. Proper cleaning and debris removal should be done on daily basis
- 5.13 No compensation shall be payable to the contractor for any damage caused by rains, lightening, wind, storm during the execution of work. He shall make good all such damages at his own cost; and no claim on this account will be entertained.

6. Commercial terms:

- 6.1 The work shall be executed and completed within **90 working days** from the date of Commencement of the Work. In case the Contractor fails to complete the assigned work within specified Work Completion Period, IIITDM Kancheepuram may recover Liquidated Damage and/or terminate the Contract and/or forfeit the Security Deposit. IIITDM Kancheepuram on its part would be required to handover the site to the Contractor free from any encumbrance.
- 6.2 Item Rates quoted on the 'Techno-Commercial Bid' by the bidder shall be valid and constant during the entire period of contract and will not be subject to any variation on any account whatsoever.
- 6.3 Measurements of all items having financial value shall be recorded in Measurement books so that a complete record is obtained of all works performed under the contract. Measurements shall be taken jointly by the IIITDM Kancheepuram official designated for the purpose and the Contractor.
- 6.4 Payment of bills shall be made against supply, acceptance and after verification of the bill by the Institute after deduction of taxes and TDS as per applicable rules. Running account bill/Final bill shall be submitted by the contractor after execution of work and completion certificate shall be furnished by the Institute after completion of work in full. Payment to be made only for the work actually done.
- 6.5 The Contractor shall take at his own cost, necessary insurance cover in respect of staff and other personnel to be employed or engaged by him in connection with the afore mentioned services personnel by services to be rendered.

6.6 Statuary deductions of taxes at source will be carried out from the payment due at the prevalent rates as prescribed by the government.

7. Other conditions:

7.1 The institute reserves the right to reject any or all the bids without assigning any reasons thereof. No tenderer shall have any cause of action or claim against IIITDM Kancheepuram for rejection of his bid.

7.2 The IIITDM, Kancheepuram is having a right to cancel the awarded work at any point of time in case of the contractor's performance is not up to the mark by giving termination letter.

7.3 The tender document is not transferable and Conditional Tenders / Non-compliance of any of the conditions set in tender document shall render the bid liable for rejection.

7.4 IIITDM Kancheepuram reserves the right to seek any clarification from the bidders or waive any minor deviation in the provisions governing the contract at its sole discretion.

8 Further, refer & comply with the in detail “**Tender general terms and conditions**” available at IIITDM > FORMS > ENGINEERING SECTION > TENDER GENERAL TERMS AND CONDITIONS” enclosed in the mentioned web link. These conditions are part and parcel of contract agreement.
http://www.iiitdm.ac.in/img/intranet_forms/ENGINEERING_SECTION/tnc.pdf

-Sd-
Registrar
IIITDM Kancheepuram

BID SUBMISSION & SELF DECLARATION PROFORMA

Name of the Work: Design, Construction and SITC of 8-layer synthetic flooring for a Basketball court including suitable lighting installation, pole erection and all associated works at IIITDM Kancheepuram

Tender No.: IIITDM/191/2023-24/Engg/Civil/005; Dated: 21st December 2023

The Registrar,
IIITDM Kancheepuram,
Chennai 600127.

Dear Sir,

- 1.1 I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking/Autonomous Body etc., at anywhere in the country.
- 1.2 I/We hereby offer to quote for work as defined in ‘Financial bid/Techno-Commercial Bid’ and the relevant Annexures at the quoted price given in the ‘Techno-Commercial Bid’ Proforma as per Annexure-3 and agree to hold this offer open till 03 months from the due date.
- 1.3 I/We have read, understood and comply with all Terms and Conditions stipulated in the Tender document necessary for submission of this bid.
- 1.4 It is further stated that I/We have fully read and understood the ‘Techno-Commercial Bid’ Terms and Conditions in the Tender Document governing this contract and shall abide by them in total if awarded the Contract.
- 1.5 For the unsuccessful bidder, the EMD amount will be returned as mentioned in tender document.
- 1.6 **I/We do hereby agree that if our Firm has not produced valid MSME Certificate (the classification of the enterprises should be updated in the current financial year i.e, 2023-24) / work completion certificate along with relevant work order, it will not be considered for further evaluation process**

Date:

Yours faithfully,

Digital Signature

Note: This form duly typed on the letterhead of the bidder and duly signed should be uploaded forming Annexure-1 of this Bid document.

QUALIFICATION PROFORMA

Name of the work:	Design, Construction and SITC of 8-layer synthetic flooring for a Basketball court including suitable lighting installation, pole erection and all associated works at IITDM Kancheepuram
Tender No.:	IITDM/191/2023-24/Engg/Civil/005; Dated: 21 st December 2023
Name of the bidder (Firm):	
Contact details of the bidder: Registered office / work office Address: Please enclose the copy of valid proof	
Mobile :	
Email id :	
GST No.: (Please enclose the copy of GST)	
PAN No.:	
EMD payment details/ MSME details: (Please enclose valid proof) (the classification of the enterprises should be updated in the current financial year i.e, 2023-24)	
Bank details for EMD refund: (Please enclose valid proof)	
Bid Submission, Bid & Self declaration Proforma: (Please enclose the annexure-1)	
Experience: Details of similar civil works execution experience preferably awarded by the State Govt. / Central Govt./Autonomous / Reputed corporate institutions/ organizations for a value not less than Rs. 24.00 lakhs (Excl. GST) for a single work order (or) Rs. 15.00 lakh (Excl. GST) each for two work order (or) Rs. 12.00 lakh (Excl. GST) each for three work order should be awarded and executed on or after 01.01.2018. (Please enclose the copy of valid work completion certificate along with relevant work order)	
Details of Manpower availability: (Number with their qualification & experience): (Add separate sheet if required)	

Declaration:

I/We hereby declare and affirm that I/We have read and understood the terms and conditions of the contract as stipulated in NIT.

Digital Signature

TECHNO-COMMERCIAL BID

Tender No.:		IITDM/191/2023-24/Engg/Civil/005; Dated: 21 st December 2023			
Name of the work:		Design, Construction and SITC of 8-layer synthetic flooring for a Basketball court including suitable lighting installation, pole erection and all associated works at IITDM Kancheepuram			
Name of the Bidder:					
S.No	Description of item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. The work also includes compaction of original ground with maximum of 6 passes of 8 to 10 tones power vibratory roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.				
1.1	All kinds of soil	205.20	cum		
2	Weedicide Treatment of Entire Area to make Land infertile, this will be done by spraying diluted chemical mixed with water. Considering 4" deep hole and spacing chemicals at holes 12" apart				
2.1	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration Make: PIRAMID/NOBAN/HILBAN	706.16	sqm		
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	68.40	cum		

4	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	68.40	cum		
5	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
5.1	30 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	20.52	cum		
6	Providing and laying semi- dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
6.1	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	684.00	sqm		
7	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
7.1	On W.B.M. @ 0.75 Kg / sqm	684.00	sqm		

7.2	On bituminous surface @ 0.50 Kg / sqm	684.00	sqm		
8	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	684.00	sqm		
Toe Wall Construction					
9	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
9.1	All kinds of soil.	21.80	cum		
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
10.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources) Cement make: Chettinad/Ultratech/Dalmia	8.18	cum		
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
11.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	16.30	cum		
12	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
12.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) Cement make: Chettinad/Ultratech/Dalmia	2.50	cum		
13	12 mm cement plaster of mix :				
13.1	1:6 (1 cement: 4 fine sand) Cement make: Chettinad/Ultratech/Dalmia	152.60	sqm		
14	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
14.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) Make: Asian (Ultima)/ Dulux /Nerolac	141.70	sqm		

15	Centering and shuttering including strutting, propping etc. and removal of form for				
15.1	Foundations, footings, bases of columns, etc. for mass concrete	26.64	sqm		
	Providing and fixing of Side fencing with 13 feet High				
16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
16.1	Hot finished seamless type tubes Make: Sail/ Tata/ JSW	1214.00	kg		
17	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
17.1	Two or more coats on new work Make: Asian (Ultima)/ Dulux /Nerolac	114.00	sqm		
18	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.				
18.1	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	327.00	sqm		
	8 layer acrylic system for sports flooring				

19	<p>Supply and installation of ITF certified 8 layers acrylic system with thickness up to 3mm. The flooring should be certified by International Tennis Federation (ITF) and should have application as first layer of primer (100% acrylic latex based emulsion to improve bond of acrylic court system to the asphalt surface having consumption ratio of 0.014kg/sqft), second layer of acrylic Resurface (Filling and smoothing asphalt or concrete surfaces in preparation for Acryflex tennis court system. It should also fill the surface chips, voids and conceals repairs while providing a smooth surface for color coating. It should have a consumption ratio of 0.046kg/sqft), Third, Fourth & Fifth layer of Unirubber liquid cushion layers at a consumption ratio of 0.10 kgs per sqft all together, Sixth & Seventh layer of Pre coat (Quartz filled % 100 acrylic latex based textured tennis topcoat with consumption ratio of 0.078 kg/sqft) and Eighth layer of Topcoat (100% acrylic latex polymer & colour coat for the finished surface to protect from UV). It should have consumption ratio of 0.023 kg/sft). On top of these 8 layers, the line marking should be done</p>	684.00	sqm		
	<p>with Over line paint (100 % acrylic latex based high hiding line paints. It should have consumption ratio of 4 kg/court). The acrylic resurface must have silica sand infill to be embedded into it with consumption ratio of 0.065 kg/sqft. The product must be approved by the respective International Sports Federation and used at the Indian/International championships recognised by the respective Regional/International Sports federation.</p>				
	Poles for the Badminton court				

20	<p>Design and SITC of suitable Basketball poles made of Channel minimum 3mm thick of 8"x 6" (200mm x 150mm) double channel size 200mm x 75mm make a box of 200 x 150mm with 3.2 meter projection. Basketball Board transparent acrylic imported 25mm thick size 180cm x 105cm with International Standard frame, double frame of aluminium powder coated with built in brackets for mounting dunking ring. Ring is bolted through the backboard into the main frame construction for extra strength and durability Use of branded Epoxy primer and paint. (B.B.C.8X6.3.2.25) (Weight Appx. 780 Kg. each pair) The accessories include Dunking Ring, Quality Net with Epoxy Painting. The rate also includes necessary suitable foundation as per the standard norms etc., complete as per the directions of Engineer-in-charge. Note: Before execution of the Basketball pole item shall be followed as per standard approved norms and the ploe design should be approved by Engineer in charge Make: Sail/ Tata/ JSW</p>	1.00	pairs		
Part - II (Electrical)					
1	<p>Fabrication & SITC of 9 Mtr long GI type tubular pole & GI bracket with necessary size coupler / clamp to accommodate 6 no's of LED fittings as required on top of the pole including making of hole for cable entry, welding, bolts, nuts and accessories etc., made of MS steel ISI marked having necessary sections of suitable dia and base plate for the pole as per manufactures design is sufficient to withstand the fitting & other accessories load, applying one coat of zinc chromate primer and two coats of aluminium paint & earthing stud etc., complete as required GI Make: Sail/ Tata/ JSW</p>	2.00	No's		
2	<p>Fabrication & SITC of 9 Mtr long GI type tubular pole & GI bracket with necessary size coupler / clamp to accommodate 12 no's of LED fittings as required on top of the pole made of MS steel ISI marked having necessary sections of suitable dia and base plate for the pole as per manufactures design is sufficient to withstand the fittings and other accessories load, applying one coat of zinc chromate primer and two coats of aluminium paint & earthing stud etc., complete as required GI Make: Sail/ Tata/ JSW</p>	2.00	No's		

3	Erection of 9 mtr steel tubular pole in 53 grade cement concrete 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) (minimum of 2 feet * 2 feet square type foundation) including centering, shuttering and finishing etc., with necessary threaded support steel structure in cement concrete with bolt & nuts, excavation and refilling etc., as required. The excavation cum cement concrete shall cover a minimum depth of 1.5 meters and above the surface level 0.5 meters as required to support the entire pole set. Cement make: Chettinad/Ultratech/Dalmia				
	a) Above 8 metre and upto 10 metre	4.00	No's		
4	Supplying and embedding 50 mm dia G.I. pipe (medium class) in pole collar / foundation (during casting) for cable entry including bending the pipe to the required shape complete as required GI Make: Sail/ Tata/ JSW	12.00	No's		
5	Design, Supply, installation, testing and commissioning of 150 watts LED flood light fitting suitable for operation on 1 phase, 230 V +/- 15%, 50 Hz, AC supply made up of pressure die cast aluminium powder coated housing, heat resistant toughened glass and IP 66 protection suitable for 35 to 50 m dia pipe, on the GI bracket as required. LUX level should be followed as per International Basketball court standards Make: Philips/Crompton/Bajaj	24.00	No's		
6	Providing and fixing of SMC street light cable looping box of size of minimum 155 mm x 210 mm x 92 mm with ISI marked & minimum IP65 rated suitable for outdoor usage, with hinged cover in front on the existing street light pole/wall, providing 3 mm thick phenolic laminated sheet of suitable size and din channel with 10 Amps C series SPN (2P) MCB & 4 way SMC connector and providing required earthing strip wire etc., as required SMC box Make: Hensel/sintex/devi polymer MCB Make: Legrand/siemens/havells/ABB Connector/TB make: Hensel/L&T/Sintex	4.00	Set		

7	Providing and fixing of SMC street light cable looping box of size of minimum 205 mm x 255 mm x 112 mm with ISI marked & minimum IP65 rated suitable for outdoor usage, with hinged cover in front on the existing street light pole/wall, providing 3 mm thick phenolic laminated sheet of suitable size and din channel with 16 Amps C series TPN (4P) MCB & 4 way SMC connector and providing required earthing strip wire etc., as required SMC box Make: Hensel/sintex/devi polymer MCB Make: Legrand/siemens/havells/ABB Connector/TB make: Hensel/L&T/Sintex	1.00	Set		
8	Supply of ISI Marked Cross linked polyethylene (XLPE) insulated, PVC outer sheathed with galvanized round steel wire or steel strip cables with aluminium conductor suitable for UG having rated voltage of 1100 volts grade and conforming to IS 7098 (Part-1) 1998 with up to date amendments and of the following sizes. Make: Finolex / Polycab / RR kabel/ Havells				
	a) 4C x 16 sq. mm	300.00	Mtrs		
9	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc., conforming to IS 14930, Part II complete with fitting and cutting, jointing etc., direct in ground (75 cm below ground level) including excavation and refilling the trench etc., complete as required.				
	a) 63/51 mm (outer/inner dia)	300.00	Mtrs		
10	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC HDPE pipe as required.				
	a) Upto 35 sq. mm	300.00	Mtrs		
11	Supplying and making end termination with brass compression gland ISI marked and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required. ISI marked				
	a) 4C x 16 sq. mm (28 mm)	8.00	No's		

12	Supply, drawing, termination and testing of following sizes of FRLSH, PVC insulated multi stranded copper conductor wire should be in line with the incoming phase colour, 1.1KV grade in existing surface / recess / PVC conduits/ pipe, including floor/metal cutting & finishing by placing of all the accessories & lugs as per the requirement complete etc., Make: Finolex / Polycab / RR kabel/ Havells				
	a) 3C * 2.5 sq. mm (Single phase - Phase, Neutral & Earth)	80.00	Mtrs		
13	SITC of 1 no. of 4 pole (TPN) *32 A, 'C' Curve MCB suitable for inductive loads in the existing DB complete etc., as required. Make: Legrand/ Siemens/ Havells/ ABB / L&T	1.00	Set		
14	Providing earthing by digging and laying of G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	1.00	set		
15	Providing and fixing 25 mm * 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	5.00	Mtrs		
16	Providing and fixing 6 SWG dia G.I. wire ISI marked on surface or in recess for loop earthing as required.	250.00	Mtrs		
17	Dismantling & shifting of existing street light pole/ street light standard/ strut embedded in cement concrete foundation etc., as required.	2.00	No's		
18	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc., as required.				
	a) Above 4.5 metre and upto 6.5 metre	2.00	No's		
19	Providing and making steel pole collar with cement concrete (1 cement: 3 coarse sand: 6 stone aggregate 20 mm) of specified size and shape including form work, plastering if required, curing etc., as required. (volume of pole / pipe not to be deducted)	2.00	No's		

20	Providing and fixing of SMC street light cable looping box of size of minimum 155 mm x 210 mm x 92 mm with ISI marked & minimum IP65 rated suitable for outdoor usage, with hinged cover in front on the existing street light pole/wall, providing 3 mm thick phenolic laminated sheet of suitable size and din channel with 10 Amps C series SPN (2P) MCB & 4 way SMC connector and providing required earthing strip wire etc., as required SMC box Make: Hensel/sintex/devi polymer MCB Make: Legrand/siemens/havells/ABB Connector/TB make: Hensel/L&T/Sintex	2.00	Set		
21	Supplying and fixing of light class ISI grade G.I. pipe of 50 mm dia. (nominal) 1.5 metres length, bend to required shape along the pole for protection of underground cable including painting with one coat of zinc chromate primer and two coats of approved aluminum paint etc., as required (For cable entry). GI Make: Sail/ Tata/ JSW	2.00	No's		
22	Supply of ISI Marked Cross linked polyethylene (XLPE) insulated, PVC outer sheathed with galvanized round steel wire or steel strip cables with aluminum conductor suitable for UG having rated voltage of 1100 volts grade and conforming to IS 7098 (Part-1) 1998 with up to date amendments and of the following sizes. Make: Finolex / Polycab / RR kabel/ Havells				
	a) 4C x 16 sq. mm	100.00	Mtrs		
23	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc., conforming to IS 14930, Part II complete with fitting and cutting, jointing etc., direct in ground (75 cm below ground level) including excavation and refilling the trench etc., complete as required.				
	a) 63/51 mm (outer/inner dia)	100.00	Mtrs		
24	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC HDPE pipe as required.				
	a) Upto 35 sq. mm	100.00	Mtrs		

25	Supplying and making end termination with brass compression gland ISI marked and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required. ISI marked				
	a) 4C x 16 sq. mm (28 mm)	4.00	No's		
26	Supplying and fixing of 1.5 m long 32 mm dia B class single cross arm angle as required of ISI grade GI bracket with suitable size coupler / clamp on the existing wall / pole with bolts, nuts & accessories including making holes & welding etc., complete as required	2.00	No's		
27	Supply, installation, testing and commissioning of 60 watts LED street light fitting suitable for operation on 1 phase, 230 V +/-15%, 50 Hz, AC supply made up of pressure die cast aluminum powder coated housing, heat resistant toughened glass and IP 66 protection suitable for 35 to 50 m dia pipe, on the GI bracket as required. Make: Philips/Crompton/Bajaj	2.00	No's		
Total Amount in Rs.					

Note: Total Amount will be taken into consideration for arriving at L-1.

- **GST & Taxes will be paid extra as applicable.**
- **Site visit is compulsory**

Declaration: I/We hereby declare and affirm that I/We have read and understood the terms and conditions of the contract as stipulated in NIT.

Digital Signature