

भारतीय प्रौद्योगिकी संस्थान गांधीनगर
Indian Institute of Technology Gandhinagar



Notice Inviting e-Tender

Name of work: Annual Maintenance of 500kWp Rooftop Solar Power Plant at IIT Gandhinagar.

NIT No. 06 /IITGN/IWD/2023-2024

OFFICE MEMORANDUM

No. 06/IITGN/IWD/2023-24

Notice Inviting e-Tender for the following work has been approved for Rs 7,32,254/-

1.	Name of Work	Annual Maintenance of 500kW Rooftop Solar Power Plant at IIT Gandhinagar.
2.	N. I. T. No	06/IITGN/IWD/2023-24
3.	Head of Account	O &M of E&M Installation for year 2023-24

Superintending Engineer
Indian Institute of Technology Gandhinagar

Copy along with NIT forwarded to:

1. Director, IIT Gandhinagar
2. Notice Board ,IIT Gandhinagar
3. Website of IITGN and CPPP.

Superintending Engineer
Indian Institute of Technology Gandhinagar

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This NIT contains total 32 Pages only.

e-Tender Notice

The Superintending Engineer, IIT Gandhinagar, Palaj, Gandhinagar invites online item rate bids on behalf of Director, IITGN in two-bid system for the following work:

NIT No.	06/IITGN/IWD/2023-24
Name of Work	Annual Maintenance of 500kWp Rooftop Solar Power Plant at IIT Gandhinagar.
Eligibility	Specialized firm in the field of SITC/AMC of Solar Power Plant.
Estimated Cost	Rs 7,32,254/-
Tender Fee	Rs. 500/-
Earnest Money	Rs. 14,645/-
Period of completion	12 Months
Critical Dates:	
Publish Date	02.06.2023 , 18:00 Hrs.
Document Download start date	02.06.2023 , 18:30 Hrs
Pre- Bid Meeting	09.06.2023 , 11:00 Hrs
Bid submission start date	03.06.2023 , 10.00 Hrs
Document Download end date	16.06.2023, 15.00 Hrs
Bid submission end date	16.06.2023, 15.30 Hrs
Bid opening date	19.06.2023 ,11.00 Hrs

भारतीय प्रौद्योगिकी संस्थान गांधीनगर
INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
INFORMATION & INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF TENDER
DOCUMENT AND TO BE POSTED ON WEBSITE

The Superintending Engineer, Indian Institute of Technology Gandhinagar (IITGN), Academic Block No. 09/303, IIT Gandhinagar, Palaj, Gandhinagar, Gujarat 382055 on behalf of the Director, IIT Gandhinagar invites the online item rate tender, in two-bid system, from Specialised firms in the field of SITC/AMC of Solar Power Plant.

SN	NIT No.	Name of Work	Estimated Cost	Tender Processing fee	Earnest Money	Period of Completion	Last date & time of uploading of eligibility & Financial Bid, Original EMD, tender fee & other documents	Time and date of opening of eligibility Bid / documents
1	06/IITGN/IWD/2023-24	Annual Maintenance of 500kWp Rooftop Solar Power Plant at IIT Gandhinagar.	Rs 7,32,254/-	Rs 500/-	Rs. 14,645/-	12 (Twelve) Months	16.06.2023 Upto 15:30 hrs	19.06.2023 at 11:00 hrs

1. The firms/Contractors who fulfill the following requirements shall be eligible to apply.

- a. Firms having Experience in maintenance of similar work during last 7 years up to the previous day of the last date of the submission of tender.

One similar work of value not less than Rs. 5,85,803/-

OR

Two similar works each of value not less than Rs.4,39,252/-

OR

Three similar works each of value not less than Rs. 2,92,902/-

“Similar work shall mean Annual Maintenance of Solar Power Plant of Minimum 400kWp in a single work”.

OR

- b. Experience of having successfully completed works of Supply, Installation, testing, and commissioning of solar power plant with a minimum maintenance period of two years during last 07 years up to the previous day of the last date of the submission of tender, as given below:

One similar work of minimum capacity of 400 kWp with 2 year AMC work

The values of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of interest of 7% per annum, calculated from the date of completion to the last date of submission of Bid.

Contractor shall submit completion certificate for such works for pre-qualification. Pre-qualification application received without such experience (Completion Certificate) shall be summarily rejected.

2. Tenderer shall submit self-attested certificate of completion certificate(s), issued by the officer not below the rank of Executive Engineer or equivalent in case of Govt. works. For non-Govt. work the completion certificate shall be accompanied with TDS certificate indicating payment made to the firm against the work. Completion certificate must clearly indicate.

1. Name of work
2. Stipulated date of start and actual date of completion.
3. Gross Value of work done
4. That the work has been completed satisfactorily.
5. Full address of client, officer issuing the certificate and location where work is executed.

To become eligible for consideration of bid, the bidder shall have to furnish an affidavit as under.

I/ we undertake and confirm that eligible works has/ have not been got executed through another contractor back-to-back basis. Further that, if such violation comes to the notice of institute before the date of start of work, the engineer In Charge shall be free to forfeit the entire amount of Earnest money and Performance guarantee deposited.

3. Applicant has to deposit Online payment of Rs. 500/- (Rupees Five Hundred only) towards the non-refundable tender fee and Rs. 14,645/- (Rs. Fourteen Thousand Six Hundred Forty-Five Only) towards refundable EMD.

4. Details for online payment:

Beneficiary name: IIT Gandhinagar Revenue Account

Account no: 5159132000006

IFSC Code: CNRB0005159

Bank Name: Canara Bank

Branch address: Campus of IITGN, Palaj, Gandhinagar, Gujarat 382055.

The bank Transection reference slip shall be uploaded with PQ bid.

5. a) The details of online transfer must be provided at 'Form A' available with this document. Form A must be uploaded in PQ bid of tender bid document, with a subject line –'Tender Fees & EMD for NIT No: 06/IITGN/IWD/2023-24.

6. The EMD of the successful bidder will be returned without any interest after submission of Performance Guarantee. The earnest money of unsuccessful bidders shall be returned after financial evaluation. Please provide details of particulars for the refund in 'Form B' and upload the same along with PQ bid'. For further query regarding the EMD, bidder(s) are required to contact Sr. Executive Engineer, IITGN through e-mail, ee.electrical@iitgn.ac.in

7. Following guideline shall be followed with regards to submission of tender: Tender will be submitted online only and in two-bid system.

Part-1 PQ cum Technical Bid

a). This Bid will contain documents related to eligibility criteria including scanned copy of tender processing fee, EMD and list of documents mentioned in NIT to be scanned and uploaded. Experience Certificates will be signed by the officers of not below the rank of Executive Engineer in case of Government departments/ Government Undertakings. In case of Private organizations, certificates should be accompanied with respective TDS certificates.

b). Schedule of departure- **Annexure-II**

c). Solvency, Annual turnover certificate & Financial Turnover.

Part-II Price Bid

8. The time & date of opening the price bid shall be intimated later on by the Superintending Engineer, Building & Works Department, Indian Institute of Technology Gandhinagar, Academic Block-9/303 Village Palaj, Gandhinagar, Gujarat-382055.

9. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

10. Information and Instructions for bidders posted on the website shall form part of this bid document.

Bid documents, consisting of plans, specifications, the schedule of quantities of items to be executed and set of terms and conditions of the contract can be seen and down loaded from website http://www.iitgn.ac.in/tender_bwd.htm or www.eprocure.gov.in

11. IIT Gandhinagar reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

12. The intending bidder must have valid class-III digital signature to submit the tender.

13. Contractor can upload documents in the form of JPG format and PDF format.

14. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figure appears in sky blue colour. If any cell is left blank and no rate is quoted by the bidder rate of such items shall be treated as "0" (Zero).

15. The eligibility bid shall be opened first on due date and time as mentioned above. Price bid shall be opened for eligible firms only.

16. On opening date, the contractor can login and see the tender opening process. After opening of tenders, he will receive the competitor tender sheets.

17. Availability of Office:

Perspective tenderer shall have an **Office Premises** at Gujarat. A certificate in this effect shall be issued by the tenderer and address of local service station shall be mentioned in the certificate attached. In case successful contractor is not having an Office at Ahmedabad/Gandhinagar, he will acquire an office at Ahmedabad/Gandhinagar and depute his management staff within 15 days of award of work failing which recovery of **Rs. 50, 000/-** PM shall be affected from his bill.

18. Pre Bid Conference will be held on 09.06.2023 at 11.00 Hrs, in the office of the Superintending Engineer IITGN, Palaj Gandhinagar.

19. List of documents to be filled in by the bidders in various forms as indicated in NIT, to be scanned and uploaded within the period of bid submission:

Sr. No.	List of Document to be uploaded
1	EMD & Tender fee : Scanned copy of Bank transaction slip
2	Certificate of Registration for GST.
3	PAN card and Bank Account Details
4	Work experience/ Completion Certificate for eligibility criteria
5	Schedule of Departure from Specifications with this NIT Annexure-II
6	Declaration of office address at Gujarat Annexure-III
7	Form – A
8	Form – B
9	NIT duly signed

20. Any clarification on the content of NIT/ Tender document can be referred to the Superintending Engineer, IIT Gandhinagar (Phone No. 079-2395-1152) email: joshikn@iitgn.ac.in by making a written requested up to **09.06.2023 at 17:00 Hrs.** Effort will be made to issue clarification in this connection in writing in next days by IIT Gandhinagar.

21. Corrigendum / Addendum to this tender if any will be uploaded on website mentioned above. Bidders / prospective bidders may kindly note this.

**Superintending Engineer
IIT Gandhinagar**

FOR e-TENDERING

The Superintending Engineer, Indian Institute of Technology Gandhinagar (IITGN), Academic Block No. 09/303, IIT Gandhinagar, Palaj, Gandhinagar, Gujarat 382055 on behalf of the Director, IIT Gandhinagar invites the online item rate bid, in two-bid system, from firm having experience in maintenance of solar power plant.

Name of Work: Annual Maintenance of Rooftop Solar Power Plant at IIT Gandhinagar.

1.1 The work is estimated to cost Rs 8,71,475/- This estimated cost, however, is given merely as a rough guide.

The firms/Contractors who fulfill the following requirements shall be eligible to apply.

- a. Firms having Experience in maintenance of similar work during last 7 years up to the previous day of the last date of the submission of tender.

One similar work of value not less than Rs. 5,85,803/-

OR

Two similar works each of value not less than Rs.4,39,252/-

OR

Three similar works each of value not less than Rs. 2,92,902/-

“Similar work shall mean Annual Maintenance of Solar Power Plant of Minimum 400kWp in a single work”.

OR

- b. Experience of having successfully completed works of Supply, Installation, testing, and commissioning of solar power plant with a minimum maintenance period of two years during last 07 years up to the previous day of the last date of the submission of tender, as given below:

One similar work of minimum capacity of 400 kWp with 2 year AMC work

Contractor shall submit the completion certificate of such work for pre-qualification. Pre-qualification application uploaded without such experience (Completion Certificate) shall be summarily rejected.

1.2 Applicant has to deposit Online payment of Rs. 500/- (Rupees Five Hundred only) towards the non-refundable tender fee and Rs. 14,645/- (Rs. Fourteen Thousand Six Hundred Forty-Five Only) towards refundable EMD.

1.3 Details for online payment:

Beneficiary name: IIT Gandhinagar Revenue Account

Account no: 5159132000006

IFSC Code: CNRB0005159

Bank Name: Canara Bank

Branch address: Campus of IITGN, Palaj, Gandhinagar, Gujarat 382055.

The bank Transection reference slip shall be uploaded with PQ bid.

1.4 Contractor has to upload self-attested copies of Completion certificate(s) issued by the officer, not below the rank of Executive Engineer or equivalent, for Govt works, in readable format. For non-Govt. work the completion certificate shall be accompanied with TDS certificate indicating payment made to the firm against the work.

Completion certificate must clearly indicate.

The completion certificate must clearly indicate.

- a. Name of Work
 - b. Stipulated date of Start and actual date of completion
 - c. Gross value of work done.
 - d. That the work has been completed satisfactorily.
 - e. Full address of client, officer issuing the certificate and location where work is executed.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD-8 (or other Standard Form as mentioned), which is available as a Govt. of India Publication (and available on website [www. cpwd.gov.in](http://www.cpwd.gov.in) Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **12 (Twelve) Months** from the date of start as defined in **schedule 'F'** or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on the website http://www.iitgn.ac.in/tender_bwd.htm or www.eprocure.gov.in
6. The bid submitted shall become invalid and e-tender fee shall be not be refunded if:
- (i) The bidders are found ineligible.
 - (ii) The bidders do not submit all the documents as stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote on total amount, the tender shall be treated as invalid and will not be considered as lowest tenderer.
7. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the contractor shall be suspended for one year and shall not be eligible to bid for institute from date of issue of suspension orders. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
8. The description of the work is as follows:

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

9. The competent authority on behalf of the Director IIT Gandhinagar does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
10. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
11. The competent authority on behalf of Director of IITGN, Gandhinagar reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
12. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
13. The bid for the works shall remain open for acceptance for a period of 75 days from the date of opening of bid. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the IIT shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidder shall not be allowed to participate in the re-bidding process of the work.
14. This notice-inviting bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:
 - a) The Notice Inviting e-Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard CPWD Form-8 or other Standard CPWD Form as applicable.

UNDERTAKING

To,

The Superintending Engineer
IIT Gandhinagar

Subject: Annual Maintenance of 500kWp Rooftop Solar Power Plant at IIT Gandhinagar.

Sir,

I/we undertake and confirm that eligible work(s) has/ have not been got executed through another contractor on back-to-back basis. Further that , if such violation comes to the notice of Institute then I/we shall be liable for appropriate Panel action as decided by Institute i/c debarred for work in institute/ CPWD, in future forever.

Also, if such a violation comes to the notice of Institute before date of start of work, the Engineer-in- charge shall be free to forfeit the entire amount of Earnest money deposited/Performance Guarantee.

Seal of bidder:

Date of submission:

Signature(s) of Bidder(s)

CPWD – 8	IITGN
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IIT Gandhinagar

ITEM RATE e-TENDER & CONTRACT FOR WORK

Tender for the work of “Annual Maintenance of 500kWp Rooftop Solar Power Plant at IIT Gandhinagar.”

To be submitted online as per (NIT) to the **Superintending Engineer, IIT Gandhinagar, Palaj, Gandhinagar (Gujarat).**

To be downloaded (opened) in presence of tenderers/their authorized representative who may be present on scheduled dated as per NIT in the office of the **Superintending Engineer, IIT Gandhinagar, Palaj, Gandhinagar (Gujarat).**

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F, Specification applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Director, Gandhinagar within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for **Seventy five (75) days** from the due date.

A sum of Rs. 14,645/- is deposited towards EMD online in favour of IIT, Gandhinagar as earnest money and bank slip is attached. I/We agree that the Director IITGN or his representative, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely-

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Director, IIT Gandhinagar or his authorized representative or his successors, in office shall without prejudice to any other right or remedy, be at liberty to take action against us as per term of NIT. Further, if I/We fail to commence work as specified, I/We agree that Director, IIT Gandhinagar or his authorized representative or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Director, IITGN for a sum of Rs.

(Rupees.....
.....)

The letters referred to below shall form part of this contract agreement:-

(a)

(b)

(c)

For & on behalf of the IITGN.

Signatures.....

Designation:

Date

PROFORMA OF SCHEDULES	IITGN
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SCHEDULE 'A'

Schedule of quantities

SCHEDULE 'B'

Schedule of materials to be issued to the contractor: -

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to be contractor	Place of issue
1	2	3	4	5
			← NIL →	

SCHEDULE 'C'

Tools and plants to be hired to the contractor: -

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
		← NIL →	

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any: - Nil

SCHEDULE 'E'

Reference to General Conditions of contract

: General Conditions of Contract (GCC) for Maintenance work 2020 (Corrected up to last date of submission of tender).

Name of Work

: Annual Maintenance of Rooftop Solar Power Plant at IIT Gandhinagar

Estimated Cost of work

: Rs 7,32,254/-

i) Earnest Money

: Rs. 14,645/- (To be returned after receiving of Performance Guarantee)

(ii) Performance Guarantee

: 5% of tendered value

(iii) Security Deposit

: 2.5% of tendered value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender

: **The Superintending Engineer,
IIT Gandhinagar**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3:

DEFINITIONS:

2(vi) Engineer -in- Charge	:	As appointed by <u>Superintending Engineer, IITGN.</u>
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2(viii) Accepting Authority	:	<u>Superintending Engineer, IITGN.</u>
2(x) Percentage on cost of materials and Labour to cover all overheads and profits	:	15%
2(xi) Department	:	<u>Building and Works Unit, IITGN</u>
9(ii) Standard CPWD Contract Form	:	<u>GCC-2020 for Maintenance work CPWD Form-8 modified & Corrected up to date.</u>
Clause 1		
(i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	:	07 days
(ii) Maximum allowable extension with late fee @0.1% per day of performance guarantee amount beyond the period provided in (i) above	:	03 days
Clause 2		
Authority for fixing compensation under Clause- 2	:	Director, IIT Gandhinagar.
Clause 2A		
Whether Clause 2A shall be applicable	:	No
Clause 5 Number of days from the date of issue of letter of acceptance for reckoning date of start	:	07 days

Mile stone(s) as per Table given below:

S. No.	Description of Milestone (Financial)	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of mile stone
Nil			

Time allowed for execution of work : **12 (Twelve) Months.**

Authority to decide:

- (i) Extension of Time: : **Superintending Engineer, IITGN**
(ii) Rescheduling of Mile-stones: : **N.A**
(iii) Shifting of date of start in case of delay in handing over of site : **Superintending Engineer, IITGN**

Clause 5.2 : **Applicable**

Clause 6 : **Applicable**

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment is : **monthly payment.**

Clause 7A

Whether clause 7 A Shall be applicable : **Yes**

Clause 10A : **Applicable**

Clause 10B : **Applicable**

Clause 10C

Component of labour expressed as percentage of value of work : **40 %**

Clause 10 CC

Clause 10 CC: to be applicable in contracts with stipulated period of completion exceeding the period shown in next column: **Not Applicable**

Schedule of component of other Materials, Labour, POL etc. for price escalation.

Component of Civil (except materials covered under **Clause 10CA**)/ Electrical construction Materials

Expressed as percentage of total value of work : X m (Not applicable)....%

Component of Labour:

Expressed as percentage of total value of work : Y (Not applicable)%

Component of P.O.L.:

Expressed as percentage of total value of work : Z (Not applicable)%

Clause 11

Specifications to be followed for execution of work :
1) CPWD General Specification for
Electrical work Part-1 (Internal)-2013
Electrical Works Part-II (External) – 1994,
2) BIS Specification as applicable
3) Manufacturer Standard

Clause 12

Type of Work : **Operation & Maintenance Work**

12.2. & 12.3: Deviation Limit beyond which
clauses 12.2 & 12.3 shall apply for building work : **NO Limit**

12.5: Deviation Limit beyond which Clause-
12.2 & 12.3 shall apply for Foundation Work : **Not Applicable**

Clause 16

Competent Authority for : The Superintending Engineer,
Deciding reduced rates: IIT Gandhinagar

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site: **As per NIT condition**

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Competent Authority to appoint DRC
DRC shall constitute one Chairman and two members.	Director, IITGN, Gandhinagar

Clause 32

Requirement of Technical Representative(s) and recovery Rate:

Sr. No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal/ Technical/ Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32	
						Figures	Words

1	Graduate Engineer or Diploma Engineer	Electrical/ Mechanical	Project planning/ te, billing engineer	2 or 5 years respectively	1	15000/- Per month	(Rupees Fifteen Thousand per person per month)
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Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10-year relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment

Clause 38

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of **Delhi Schedule of Rates- 2016** printed by C.P.W.D.
- (ii) Variations permissible on theoretical quantities:
 - (a) Cement:
 - For works with estimated cost put to tender not more than Rs. 5 lakhs: 3% plus/minus.
 - For works with estimated cost put to tender more than Rs.5 lakhs: 2% plus/minus.
 - Bitumen All Works: 2.5% **plus & only &** Nil on minus side.
 - (b) Steel Reinforcement and structural Steel Sections for each diameter, Section and Category 2% plus/minus
 - (d) All other materials Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sr. No.	Description of Item	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond permissible variation
1.	Cement	Nil	
2.	Steel Reinforcement	Nil	

1.1 SAFETY MEASURES

1.1.1 The issue of construction safety & standards has gained utmost importance in recent times. Contractors must follow highest safety standards and “ZERO” tolerance towards any violation of safety norms at the construction site. *All workers of contractor and associate agencies, invariably and at all the times, must follow all safety norms, adopt best safe work practices as per requirement of job and use all required safety gadgets in their working throughout the project duration.*

Note: 1 The special conditions detailed above are in addition to general/ other/ additional conditions as specified elsewhere in tender document.

Note : 2 Nothing extra shall be paid on the account of these special conditions.

The Engineer-in Charge can stop the work and seek removal of any workers from site in case of non-adoption of safety measures.

General and Additional Conditions

1. General

1.1 The work shall be executed as per CPWD General Specifications for Electrical Works (Part I – Internal) 2013, (Part II–External) 1995, IE Rule 1956 wherever applicable, relevant IS and as per manufacturer recommendation/directions of Engineer-in-Charge. The technical specifications are to be read in conjunction with above and in case of variations; technical specifications of tender document shall apply. Nothing extra shall be paid on account of additional features in the technical specifications as the same are to be read along with schedule of quantities for the work.

1.2 The Department shall not issue any T & P and nothing extra shall be paid on account of this.

1.3 The work to be awarded by this tender shall be treated as indivisible works contract.

2. Terms of payment:

Payment shall be made after minimum 30 days of last interim payment.

3. Rates:

The rates quoted by the tenderer, shall be firm and inclusive of GST & all other taxes, duties, levies and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning at site, risks, overhead charges, general liabilities / obligations. Nothing Extra shall be paid on this account.

4. Completeness of tender:

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, making hole, making openings in wall for installation work, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

5. Storage and custody of materials:

The Control room/Store room may be used for storage of sundry materials and erection equipment if available or else the agency has to make their own arrangement. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

6. Availability of Office:

Perspective tenderer shall have an **Office Premises** at Gujarat. A certificate in this effect shall be issued by the tenderer and address of local service station shall be mentioned in the certificate attached. In case successful contractor is not having an Office at Ahmedabad/Gandhinagar, he will acquire an office at Ahmedabad/Gandhinagar and depute his management staff within 15 days of award of work failing which recovery of **Rs. 50, 000/-** PM shall be affected from his bill.

7. Care of the Building:

Care shall be taken by the contractor while handling and maintaining the various equipments and components of the work to avoid damage to the building. They shall be responsible for repairing all damages and restoring the same to their original finish at their cost. They shall also remove at their cost all unwanted and waste materials arising out of the installation from the site of work.

8. Completion period:

The completion period indicated in the tender documents is for the entire work.

9. Performance Guarantee:

The tenderer shall guarantee among other things, the following vis-à-vis specifications.

- a. Quality, strength and performance of the materials used.
- b. Safe mechanical and electrical stress on all parts under all specified conditions of operation.

- c. Satisfactory operation during the maintenance period.

10. Power Supply:

Power Supply for the purpose of Installation of plant and equipment shall be provided by IIT from some predefined point. However making arrangement of safe connection for use of supply, to the satisfaction of Engineer in Charge shall be responsibility of contractor.

11. After Award of Work:

The Contractor shall prepare the programme chart for the execution of the work showing clearly all activities from the start of work to the completion, with details of requirements of materials, man power, equipments and machinery deployment, required for the completion of the work within the stipulated period and submit the same to the Engineer-in-Charge within seven days after the issue of letter for commencement of the work. The Contractor shall also submit fortnightly programme and progress reports and update / re-schedule the same every week. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

The successful tenderer should furnish well in advance three copies of detailed instructions, maintenance manuals and checklist of manufacturers for all items of equipments regarding operation and maintenance i/c preventive maintenance & trouble shooting together with all the relevant data sheets and workshop procedure for repairs, assembly and adjustment etc. all in triplicate.

12. Extent of work:

12.1 The work shall comprise of entire labour including supervision and all materials necessary to maintain the installation mentioned under scope of work. The term comprehensive maintenance shall not only mean maintenance of major items like plant and equipments covered under the scope but also general requirement which are necessary and related with operation of the system.

12.2 Minor building works necessary for installation of equipment, foundation, making of opening in walls or in floors and restoring to their original condition, finish and necessary grouting etc as required to be undertaken.

12.3 Any item required for completion of the project but left inadvertently shall be executed with in the quoted rates.

12.4 Sealing of all cable entry pipe, making all racks rodent and worm proof. Any incident of cut in wiring/ instrument by rodent shall be responsibility of successful tenderer for repair in quoted rate.

13 .Works to be arranged by Department:

Unless otherwise specified in the tender documents, the following works shall be arranged by the Department:

- a. Space for accommodating all the equipments and components involved in the work.
- b. Power supply and drain points.
- c. Masonry ducts/service trench within and outside the building for carrying pipelines and cables wherever specified.

14. Works carried out by the Contractor:

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost whether specifically indicated in the schedule of work or not:

- a. Foundation for equipments including foundation bolts and vibration isolation springs/pads.
- b. Suspenders, brackets and floor/wall supports for suspending /supporting equipments.
- c. Sealing of all floor, slab and wall openings provided by him for pipes and cables, from fire safety point of view, after lying of the same.
- d. Damages to pre painted items while handling and erection, shall be rectified to the satisfaction of the Engineer-in-Charge.
- e. Making openings in the walls/floors/slabs or modification in the existing openings wherever provided for carrying pipeline, ducts, cables etc.
- f. Cutting and making good all damages caused to the structure during installation and restoring the same to their original finish.

15. Compliance with Regulations and Indian standards

All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to this work. In particular, the equipment and installation shall comply with the following:

- a. Factories Act
- b. Indian Electricity Rules
- c. I.S. & BS Standards as applicable
- d. Workmen's compensation Act
- e. Statutory norms prescribed by local bodies

Nothing in this tender shall be construed to relieve the successful tenderer of their responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

16. Indemnity :

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

17. Erection Tools:

No tools and tackles either for unloading for shifting the equipments for erection purposes would be made available by the Institute. The successful tenderer shall make own arrangement for all these facilities.

18. Cooperation with other agencies:

The successful tender shall co-ordinate with other contractors and agencies engaged in the construction of the building and exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any existing portion of the building has to be dismantled and re-done for want of cooperation and coordination by the successful tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the successful tenderer himself. Water proofing of pits shall not be damaged under any circumstances.

19. Mobilization Advance:

No mobilization advance shall be paid for this work.

20. Verification of correctness of Equipment at Destination:

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

21. Painting:

This shall exclude cost of painting of entire exposed ironwork in the installation.

22. Order of Preference:

Should there be any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

1. Schedule of quantities
2. Additional and Commercial Conditions
3. Technical specifications specified in the tender
4. General Conditions of Contract for CPWD Works
5. Drawings
6. CPWD General Specifications
7. Relevant IS or any other International code in case IS code is not available.

23 Document Submission after completion of work

After completion of work contractor shall handover complete installation back to institute in perfectly working order.

SCOPE OF WORK

1. Scope of work includes routine preventive maintenance of rooftop solar power plants installed in hostel and academic blocks, attending breakdown maintenance, troubleshooting, repair of defective parts, monitoring of system performance, health check & Submission of reports work done with observations noted during preventive maintenance.

Equipment/Spare required for repaired/ replacement work shall be issued to the contractor by IITGN free of cost, however, manpower/ labour required shall be deemed included in the quoted rate, and no extra cost will be paid on this account.

2. All minor consumable items like Nut bolts, screws, Cotton cloths, Lugs, connectors, etc. shall be deemed included in the quoted rate.
3. All T&P required for the work shall be arranged by the contractor at the quoted rate.
4. Routine maintenance & preventive maintenance shall be carried out as per manufacturer standards, instruction of Engineer-in Charge & as per standards prescribed. The successful bidder is advised to visit the site & acquaint himself with site conditions before quoting the rates.

5. During Regular Maintenance Visit.

Health check of Inverter: -

- a. Check for any abnormal heating
- b. Check all MPPT working in inverter
- c. Any observed physical or electrical damage
- d. Check connection tightness for AC and DC connectors and cables
- e. Noting down of displaying generation reading of total power generation.

ACDB & DCDB check: -

- f. Check all connections, and switch gears used.
- g. Check of SPD used.
- h. Any abnormal heating.
- i. Tightness of connections.

String Health check: -

- j. Check string voltage.
- k. Check the floating voltage of the string.
- l. Check of string current.
- m. Visual check of all the connections & cables.

General Observation and submission: -

- n. Total plant generation.
- o. Generation for a quarter.
- p. Any observed electrical or physical damage in the plant.
- q. Observed Capacity utilization during the quarter.
- r. Breakdown observed /Record if any.
- s. Correction done if any.
- t. Reading of Solar meter and import-export

- u. Any required correction suggestion for improvement of plant health
- v. Status of solar module cleaning

For forwarded Breakdown call: -

- w. Forwarded breakdown call must be attended in 3 working day
- x. Breakdown analysis and required correction must be done in 5 working day
- y. Within 7 working days' a detailed report for any breakdown should be submitted
- z. If require any material to replace during the breakdown call, all specifications with detailed formal quotation must be submitted within 7 working days.
- aa. For any replacement of material for mechanical or electrical part guarantee or warranty must be 1 year against observing any manufacturing defect.
- bb. For any electronics part or solar module replaced part warranty cover must be 5 years to observe any manufacturing defect.
- cc. After replacement of spare detail analysis of plant working must be submitted to IIT, Gandhinagar
- dd. In case of replacement of solar module must be compatible with the existing solar module in the plant.
- ee. Electrical panel used for the evocation of solar power
- ff. Dust cleaning of the solar module.

Additional Conditions

1. Work shall be carried as per CPWD Specification wherever applicable, BIS standard, manufacturers recommendation, and decision of Engineer –In- Charge.
2. The rates are inclusive of all taxes, levies & cess and nothing shall be paid extra.
3. The bidders are required to submit tenders in Two parts. Each part is to be submitted in separate envelopes and duly sealed. All the Two envelopes may be stapled together.
4. The quotation received without the documents cited under the terms & conditions above shall not be opened.
5. IIT Gandhinagar reserves the right to reject any or all the Quotations, in part or full.
6. **Claims for Extra or for Deviations:** The IITGN shall not be responsible for the payment of any claim for extra work not included in the contract nor the Contractor shall be entitled to claim any addition to the contract sum in respect of any changes or alterations in the materials used unless the same shall have been ordered or sanctioned, as the case may be, in writing by the IITGN.
7. **Removal of Imperfect Work:** If it shall appear that the work has been executed with unsound, imperfect, or unskilled workmanship, or with the material of any imperfect or any inferior quality or otherwise not in accordance with the contract document, the Contractor shall at his own cost rectify, reform, remove, or reconstruct the same, either in the whole or in part, as may be directed by the Owner, whether or not the value of any such work or **materials shall have been included in any payment made to the Contractor.**
8. **Working Hours:** Normal working hours shall be from 9.00 a.m. to 6.00 p.m. Any works of important nature should not be carried out on Sundays, Holidays, and during, the night. However, permission to work beyond normal working hours can be granted by the IITGN in exceptional circumstances to achieve the target schedule of completion.
9. **Guarantee:** The contractor shall give the warranty for newly (replaced) electronics parts for 05 years against manufacturing defects. Warranty for switch gears and cables will be for 01 years against manufacturing defects.
10. **Replacement of Material:** In case of requirement of replacement of material in plant, contractor forward proposal for any required material to IITGN with necessary justification. After approval of IITGN, only material can be replaced at the agreed rate at that time by both the party.
11. **Payment:** The contractor can claim payment quarterly.
12. **Penalty:** Contractor shall attend to the complaint within 03 days of communication made to him failing which a penalty of Rs 500/- per day shall be imposed on him.
13. The contractor shall clear the site before starting the work and also after completion of the work.
14. If any improper/faulty method or procedure is followed by the contractor, Engineer-in-charge is empowered to stop the work.
15. Conditional quotation shall be rejected.
16. Time allowed for completion of work is 365 Days.
17. No T&P shall be issued to the contractor by the Institute the same shall be arranged by the contractor at quoted rate.
18. During the warranty period Quarterly Preventive maintenance shall be carried out as per manufacturer recommendation.

**Superintending Engineer IIT
Gandhinagar**

FORM OF PERFORMANCE SECURITY (GUARANTEE)

BANK GUARANTEE BOND

In consideration of the Director, IIT Gandhinagar (hereinafter called "IITGN") having offered to accept the terms and conditions of the proposed agreement between **INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR, PALAJ, GANDHINAGAR - 382055**, and (hereinafter called "the said contractor(s)" for the work " _____

_____") (hereinafter called "The said agreement") having agreed to production of a irrevocable Bank Guarantee for _____ (Rupees _____) as security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We _____ (hereinafter referred to as "the Bank) hereby undertake to pay to **IITGN** an amount not exceeding Rs. _____ (Rupees _____) on demand by **IITGN**.
2. We _____ (indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from **IITGN** stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____).
3. We, the said bank further undertake to pay to **IITGN** any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We _____ (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of IITGN under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of IITGN certified that the terms and conditions of the said agreement

have been fully and properly carried out by the said contractor (s) and accordingly discharges this guarantee.

5. We _____ (indicate name of the bank) further agree with **IITGN** that **IITGN** shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by **IITGN** against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of **IITGN** or any indulgence **IITGN** to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We _____ (indicate the name of Bank) lastly undertake not to revoke this guarantee except with the previous consent of **IITGN** in writing.

8. This guarantee shall be valid up to _____ unless extended on demand by **IITGN**.

Notwithstanding anything mentioned above, our liability against this guarantee is restricted to

Rs. _____ (Rupees _____)

and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the _____ day of _____ for _____ (indicate the name of Bank)

(Schedule of Departure)

SCHEDULE OF DEPARTURE FROM SPECIFICATIONS

Ref to clause of the specification	Description of Deviation	Reason for Departure
------------------------------------	--------------------------	----------------------

DEPARTURE FROM GENERAL SPECIFICATION

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

Certified that except for departure mentioned above tender is in accordance with technical specifications of NIT, CPWD General Specifications for Heating, Ventilation & Air Conditioning Works 2017 with up to date correction slip, CPWD General Specifications for Electrical Works (Part I – Internal) 2013, (Part II – External)1994 , wherever applicable, as per relevant IS amended up to last date of submission of tender and in accordance with detailed requirement specified in tender specifications / Schedule of Quantities

(Signature of the contractor)

Form A

PARTICULARS TO BE FILLED BY THE BIDDER

1. Name of the Bidder:
2. Complete Address of the Bidder:
3. Availability for demonstration of instruments at IIT Gandhinagar: Yes / No [Please √]
4. Details of the Tender Fee transferred: Yes/No [Please √] If yes,
 - a) Name of the Bank _____
 - b) Amount in (₹) _____
 - c) UTR No. _____
 - d) Date of remittance _____
5. Details of Earnest Money Deposit transferred: Yes / No [Please √] if Yes,
 - a) Name of the Bank _____
 - b) Amount in (₹) _____
 - c) UTR No. _____
 - d) Date of remittance _____
6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update IIT Gandhinagar]
 - a) Full Name:
 - b) Complete Postal Address:
 - c) Telephone No.:
 - d) Fax No.:
 - e) Mobile No.:
 - f) E-mail:
 - g) Website Address:

Form B
PARTICULARS FOR REFUND OF EMD TO SUCCESSFUL/UNSUCCESSFUL BIDDER

RTGS/National Electronic Fund Transfer (NEFT) Mandate Form

1	Name of the Bidder	
2	Permanent Account No (PAN)	
3	Particulars of Bank Account	
	1) Account No.	
	2) Name of Account Holder	
	3) Name of the Bank	
	4) NEFT/IFSC Code/ RTGS Code	
	5) Type of Account	
	6) Address	
	7) City Name	
	8) Telephone No	
4	Email id of the Bidder	

Note: - Please attach original cancelled cheque along with the RTGS/National Electronic Fund Transfer (NEFT) Mandate Form.

**Undertaking for established office of Contractor in Gujarat
(On Contractor Letter head with seal)**

Date:

To,

Superintending Engineer,
AB-09/303,
IIT Gandhinagar, Near Palaj village,
Gandhinagar-382055.

Subject: Undertaking regarding availability for contractor office at Gujarat.

Dear Sirs,

We hereby give an undertaking that we maintain office for maintenance of Solar PV system at Gujarat.
The address of our office is as under:

M/s. _____

Phone No. _____

Email ID: _____

This is for information and necessary action please.

Thanking you,

Yours faithfully,
(Seal & Signature)