



भारतसरकार

Government of India

केन्द्रीय लोकनिर्माणविभाग

Central Public Works Department

NOTICE INVITING e-TENDERS

Name of work: **SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

NIT No.:20 /EE(E)/Jodhpur/2026-27

ESTIMATED COST: :Rs. 11,16,950.00

EARNEST MONEY : Rs. 22,339.00

COMPLETION PERIOD : 03 Months

Last date/Time of Tender submission :Up to 03:00 PM on 01.09.2026

Date of Opening of bids : At 03:30 PM on 01.09.2026

Assistant Engineer (E) (P) Jodhpur  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD, Jodhpur

केन्द्रीय लोक निर्माण विभाग

राष्ट्र निर्माण में समर्पित



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Name of Work: **SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

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**Time Allowed : 03 (Three) Months.**

Certified that this bid document contains pages 01 to 54 (One to Fifty Four excluding front and back cover page).

NIT approved for Rs. 11,16,950/- (Rupees Eleven Lacs Sixteene Thousand Nine Hundred Fifty only)

Assistant Engineer (E) (P) Jodhpur  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD, Jodhpur

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**CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS**

1. The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bids document very carefully, before quoting the rates.
2. The bidder should also read the General Conditions of Contract for CPWD works 2023 Construction work, published by DG, CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement with up to date amendments upto the date of receipt of tenders.
3. The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.
4. The bidder shall have to make his own arrangement for housing facilities for staff and labour away from Construction site and shall have to transport the labour to and fro between Construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the site except a few temporary sheds for chowkidars and storekeepers at the site. Any decision in this regard shall rest with the Engineer-in-charge and the contractor shall have no claim on this account.
5. The bidder should read the specification and special condition and additional conditions etc.
6. The work required to be executed in occupied building. The bidder shall take precaution to ensure quality of workmanship as well as the progress of the work. He shall regulate the labour accordingly.
7. The bidder shall make environment friendly arrangement for disposal of dismantle/waste materials from upper floors.
8. **C.P.W.D Contractor's Labour Regulations:** As per GCC 2023
9. **Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 04/06/2015:-**
  - a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart(time and progress) within the period specified in schedule 'F' .
  - b. As per clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer- in-charge.
  - c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.

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**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING  
FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

The Executive Engineer (E&M), Jodhpur, CPWD, Jodhpur on behalf of President of India invites **online Percentage rate bids in Single Bid system from "Approved and eligible registered contractors in appropriate class in (B&R) category in CPWD"** for the following work(s):

|                                                                                                                                         |                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| S.No.                                                                                                                                   | 1.                                                                            |
| <b>NIT No.</b>                                                                                                                          | 20 /EE(E)/Jodhpur /2026-27                                                    |
| Name of work & Location                                                                                                                 | SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work) |
| Estimate cost                                                                                                                           | <b>Rs. 11,16,950/-</b>                                                        |
| <b>Earnest Money</b>                                                                                                                    | Rs. 22,339/-                                                                  |
| Period of Completion                                                                                                                    | <b>03 Months</b>                                                              |
| Last date and time of submission of Bid original hard copy of EMD or copy of receipt for deposition of original EMD with any EE of CPWD | <b>Upto 03:00 PM on</b> 01.09.2026                                            |
| Time and date of opening of Price Bid                                                                                                   | <b>From 3:30PM onwards, on</b> 01.09.2026                                     |

- The intending bidder must read the terms & 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.
- Information and instructions for Bidders for e-tendering posted on website shall form part of bid document.
- 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 can be seen and downloaded from website <https://etender.cpwd.gov.in> free of cost
- The bid can only be submitted after depositing original EMD either in the office of inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt and Bank Guarantee of any Scheduled Bank toward s"Executive Engineer JdCD, CPWD Jodhpur" receipt of deposition of original EMD to division office of any Executive Engineer(including NIT issuing EE), CPWD and other documents as specified.
- Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per detail available on the website.
- The intending bidder must have valid class-III digital signature to submit the bid.
- On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.

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- 8 Contractor can upload documents in the form of JPG Format and PDF Format.
- 9 Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in Pink colour and the moment rate is entered, it turns Sky Blue.
- 10 In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".  
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
- 11 The General conditions of contract for GCC 2023 for Construction work CPWD amended up to last date of receipt of tender shall be the part of Agreement (Available on CPWD Website).
12. The department 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.

**List of Documents to be scanned and uploaded within the period of bid submission:**

1. Scanned and uploaded of Original EMD
2. Performa for Earnest Money Deposit **Page No.07**
3. Enlistment Order of the Contractor in composite category in CPWD.
4. i) Certificate of Registration for GST.  
ii) GST registration certificate, if already obtained by the bidder. If the bidder has not obtained GST registration **as applicable**, then he shall scan and upload following undertaking along with bid documents. *"If work is awarded to me, I/we shall obtain GST registration certificate, **as applicable**, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard."*
5. Address with e-mail
6. Copy of PAN Card
7. Copy of Certificate of ERP Training
8. Copy of valid Electrical Contractor License if already obtained by the bidder. If the bidder has not obtained valid Electrical Contractor License, then he shall scan and upload undertaking as per Proforma B of this NIT (Page -8) along with bid documents

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**Format of Receipt of Deposition of Original EMD**

Received No. :

Dated :

1. **Name of Work** : **SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**
2. **NIT No.** : **20/EE(E)/Jodhpur /2026-27**
3. **Estimated Cost** : **Rs. 11,16,950 /-**
4. **Amount of Earnest Money Deposit** : **Rs.22,339 /- in favour of "Executive Engineer JdCD, CPWD Jodhpur"**
5. **Last date of submission of bid** : **01.09.2026(3.00 PM)**
1. **Name of Contractor** : .....
2. **Form of EMD** : .....
3. **Amount of Earnest Money Deposit** : .....
4. **Date of Submission of EMD** : .....

Office Stamp

Signature, Name and Designation  
Of EMD receiving Officer (EE/AE(P)/AAO)  
Alongwith office stamp

**Note :-**

1. The Executive Engineer of all divisions including NIT issuing division / sub-division of CPWD should receive the original EMD for tender of other division.
2. The NIT approving authority / EE at the time of issue of NIT shall also fill and upload the above prescribed format of receipt of deposition of original EMD alongwith NIT.
3. The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the Contractor in a given format uploaded by tender inviting EE. The receipt may also be issued by the AE(P)/AAO of the receiving division.
4. The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer above deposition of EMD by the Contractor by email/fax/telephonically.
5. The original EMD receiving Executive Engineer shall release the EMD after verification from the tendering portal website ([www.tenderwizard.com](http://www.tenderwizard.com) > tender free view > advance search > awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

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**Performa 'B'****UNDEERTAKING CERTIFICATE FROM CONCERNED CONTRACTOR FOR ELECTRICAL  
LICENSE OF ELEGIBLE CLASS****Name of Work:-** *SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)*

We hereby giving undertaking that we will obtain the valid Electrical licence before the start of work or to associate the agency having valid electrical license of eligible class for the above mentioned work .

I will execute the work as per specifications and conditions of the agreement and as per direction of the Engineer-in-charge.

Also , I will employ full time technically qualified supervisor as required for the work. I will attend inspection of officers of the department as and when required.

Date.

Signature of Main Contractor

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**PART – A**

**NOTICE INVITING e-TENDER (CPWD-6), TENDER FORM (CPWD-7), SCHEDULES - A TO F FOR WORK AND STANDARD GCC FOR CPWD-2023 FOR Construction WORK AMENDED/ MODIFIED UP TO LAST DATE OF TENDER SUBMISSION**

केन्द्रीय लोक निर्माण विभाग

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**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT**

NOTICE INVITING e-  
TENDER

**Online Percentage rate bids in Single Bid system from “Approved and eligible registered contractors in appropriate class in composite category in CPWD”** for the following work(s):

Name of Work: **SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of bids.

1. The work is estimated to cost **Rs. 11,16,950** /- This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available at a Govt. of India Publication and also 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 04 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 from website [e-tending.cpwd.gov.in](http://e-tending.cpwd.gov.in), free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. Earnest Money **22,339/-** in the **original** Proforma for Earnest Money Deposit Receipt shall be scanned and uploaded to the e-tendering website within the period of bid submission.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or **Rs. 5 lakh**, whichever is less, will have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank

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Guarantee of any scheduled bank having validity for Six months or more from the last date of receipt of tenders which is to be scanned and uploaded by the intending bidder.

Copy of Enlistment order and certificate of work experience and other documents as specified in the notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. **However certified copy of all the scanned documents as specified in press notice shall have to be submitted by the lowest bidder only along the physical EMD of the scanned copy of EMD uploaded.**

Online bid documents submitted by intending bidder shall be opened only of those bidders, **who has Earnest Money Deposit and other document scanned and uploaded are found in order.**

The bid submitted shall be opened at **3:30PM on** 01.09.2026.....

9. The bid submitted shall become invalid and e-tender processing fee shall not be refunded if:
- (i) The bidder is found ineligible.
  - (ii) The bidders does not upload all the documents (including GST registration) as stipulated in the bid document **including performa for EMD Deposit Receipt duly signed, on or before time.**
  - (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 lowest 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 any percentage above/below on the total amount of the tender or any section/sub head Item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.**
10. *The contractor, whose bid is accepted, will be required to furnish performance guarantee of a) 5% (Five percent) of tendered value OR Estimated cost Put to Tender (ECPT) (whichever is higher) as per OM NO.DG/CON/Construction 2023/24 dated 27.02.2026.(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.. This guarantee shall be in the form of 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 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 the earnest money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited alongwith bid shall be returned after receiving the aforesaid performance guarantee.*

**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,**

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**registration with EPFO and ESIC Welfare Board and Programme Chart (Time and Progress) within the period specified in Schedule F.**

11. 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, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a 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.
12. The competent authority on behalf of the President of India 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.
13. 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 to rejection.
14. The competent authority on behalf of President of India 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.
15. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Chief Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. 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 10 Days after his retirement from Government service, without the previous 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.

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17. The bid for the works shall remain open for acceptance for a period of **Thirty(30) days** from the date of opening of bids. If any bidders 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 Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
18. 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 07Days from the stipulated date of start of the work, sign the contract consisting of:-
- The Notice Inviting Bid, 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.
  - Standard C.P.W.D. **Form 7** or other Standard C.P.W.D. Form as mentioned.

Signature of the Divisional Officer,  
For and on behalf of the President of India

**CPWD**

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**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE **Rajasthan**

CIRCLE

**SE Jodhpur**BRANCH **E&M**

DIVISION

**EE(E&M)-Jodhpur****Sub Divn –AE(E)Mount Abu**

**PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS**

- (i) **Tender for the work of:** SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)
- (ii) To be submitted by **03.00PM on 01.09.2026**
- (iii) The online Bid shall be opened in presence of tenderers who may be present at **03.30PM on 01.09.2026**. In the office of the: Executive Engineer (E&M), Jodhpur, CPWD Jodhpur

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications 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 President of India 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.

I/We agree to keep the tender **open for Thirty (30) days** from the due date of opening of bid and not to make any modification in its terms and conditions.

A sum of **22,339 /-** is hereby forwarded in performa Earnest Money Deposit receipt duly signed & stamped as earnest money.

If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we shall be suspended for one year and shall not be eligible to bid for CPWD tenders from date of issue of suspension order. Further, if I/we fail of commence work as specified, I/we agree that President of India 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.

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

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I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated: \_\_\_\_\_

Witness: \_\_\_\_\_

Address: \_\_\_\_\_

Occupation: \_\_\_\_\_

Signature of Contractor

Postal Address

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 President of India for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)

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

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Dated: \_\_\_\_\_

For & on behalf of the President of India

Signature \_\_\_\_\_

Designation \_\_\_\_\_

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## SCHEDULE 'A' to 'F' (Electrical)

## SCHEDULE 'A'

Schedule of quantities  
page no. -----

For electrical work scheduled attached at

## SCHEDULE 'D'

Extra schedule for specific requirements/ documents for the work, if any. Nil

## SCHEDULE 'E'

Reference to General Conditions of contract

General Conditions of Contract for CPWD Construction work 2023 as amended/ modified upto the previous day of last date of submission of tender.

**Name of Work:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

Estimate Cost

Rs. 11,16,950.00

Earnest Money: -

Rs 22,339.00

Performance Guarantee

(a) 5% (Five percent) of tendered value OR Estimated cost Put to Tender (ECPT) (whichever is higher) as per OM

NO.DG/CON/Construction 2023/24 dated 27.02.2026.

(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

Security Deposit

2.5% of the tendered value

## SCHEDULE 'F':-

General Rules & Directions:-

|       |                                                                                                                                                |   |                                                 |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------|
|       | Officer Inviting Tender                                                                                                                        | : | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur |
|       | 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 | : | See at appropriate clause under definitions     |
|       | Definitions:-                                                                                                                                  |   |                                                 |
| 2(vi) | Engineer-In-Charge                                                                                                                             | : | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur |

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|                                            |                                                                                                                                                                                                                                                                                     |   |                                                                                                                             |
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| 2(viii)                                    | Accepting Authority                                                                                                                                                                                                                                                                 | : | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur                                                                             |
| 2(x)                                       | Percentage on cost of materials and labour to cover all overheads and profits                                                                                                                                                                                                       | : | 15%                                                                                                                         |
| 2(x)(a)                                    | Standard Schedule of Rates (Electrical & Civil)                                                                                                                                                                                                                                     | : | DSR 2025 (E&M) with upto date correction slips issued up to date of receipt of tender & market based items                  |
| 2(xi)                                      | Department                                                                                                                                                                                                                                                                          | : | Central Public Works Department                                                                                             |
| 9(ii)                                      | Standard CPWD Contract (electrical & civil)                                                                                                                                                                                                                                         | : | GCC-2023 Constuction works CPWD Form-7 as modified & corrected up to previous day of last date of submission of the tender. |
| Clause-1:-                                 |                                                                                                                                                                                                                                                                                     |   |                                                                                                                             |
| (i)                                        | Time allowed for submission of performance guarantee, Programme Chart (Time and progress) and applicable Labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund Code No. or proof of applying thereof from the date of letter of acceptance. |   | <b>07(Seven)Days</b>                                                                                                        |
| (ii)                                       | Maximum allowable extension with late fee @ 0.1 % per day of performance guarantee amount beyond the period as provided in (i) above.                                                                                                                                               |   | <b>3 (Three ) Days</b>                                                                                                      |
| Clause-2                                   | Authority for fixing compensation under clause-2.                                                                                                                                                                                                                                   |   | SE, CPWD, Jodhpur or his successor                                                                                          |
| Clause-2 A                                 |                                                                                                                                                                                                                                                                                     |   | Not Applicable                                                                                                              |
| Clause-5                                   | Number of days from the date of issue of letter of acceptance for reckoning date of start.                                                                                                                                                                                          |   | <b>10 (Ten) Days</b>                                                                                                        |
| <b>Time allowed for execution of work.</b> |                                                                                                                                                                                                                                                                                     | : | <b>03 Months</b>                                                                                                            |
| (i)                                        | Authority to convey decision of shifting of mile stone & extension of time.                                                                                                                                                                                                         | : | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur or his successor                                                            |
| (ii)                                       | Authority to decide rescheduling of mile stone and extension of time.                                                                                                                                                                                                               | : | SE, CPWD, Jodhpur or his successor                                                                                          |
| (iii)                                      | Shifting of date of start in case of delay in handing over of site.                                                                                                                                                                                                                 | : | SE, CPWD, Jodhpur or his successor                                                                                          |
| Schedule of handing over of site           |                                                                                                                                                                                                                                                                                     |   |                                                                                                                             |

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| Part                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Portion of Site                                                                                                                                                                                                                                          | Description                                                      | Time Period for handing over reckoned from date of issue of letter of intent.                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Part A                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Portion without any hindrance                                                                                                                                                                                                                            | Site is available                                                | On the day of start of the work.                                                                                                                 |
| Clause-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                          |                                                                  | Applicable                                                                                                                                       |
| <b>CLAUSE 5.4 :- Rescheduling of milestone(s) and extended date of completion :-</b><br>The request for rescheduling of milestone(s) and extension of time, shall be made by the contractor through ERP Portal once in a month on the basis of hinderance accepted by Engineer-in – charge under subclause 5.2 and subclause 5.3. The Contractor shall indicate in such a request number of days by which rescheduling of milestone(s) and/ or extension of time is desired. |                                                                                                                                                                                                                                                          |                                                                  |                                                                                                                                                  |
| <b>TABLE OF MILE STONES Nil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                          |                                                                  |                                                                                                                                                  |
| Clause-6:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Electronic Measurement Book (EMB) through CPWD ERP portal                                                                                                                                                                                                |                                                                  |                                                                                                                                                  |
| 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.                                                                              |                                                                  | 2.50 Lacs or as mutually agreed by both parties.                                                                                                 |
| Clause-7A:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Regarding applicability of labour laws: -<br>Related to Labour licensee, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund                                                                                            |                                                                  | Yes , Applicable .                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No running account bill shall be paid in the work till the applicable labour licenses, registration with EPFO, ESIC, BOCW welfare board including Provident Fund Code No. whatever applicable are submitted by the contractor to the Engineer-in-charge. |                                                                  |                                                                                                                                                  |
| Clause-7B:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Payment to Third Party                                                                                                                                                                                                                                   |                                                                  | Yes , Applicable                                                                                                                                 |
| CLAUSE 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Competent Authorities to inspect and issue part/ final completion certificate.                                                                                                                                                                           | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur or his successor |                                                                                                                                                  |
| CLAUSE 8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Authority to decide compensation on account if contractor fails to submit completion plans.                                                                                                                                                              | Executive Engineer (E&M), Jodhpur, CPWD Jodhpur or his successor |                                                                                                                                                  |
| Clause-10A:-                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Material to be provided by the contractor.                                                                                                                                                                                                               |                                                                  | Provision as per O.M. No. DG/Con/Construction 2023/12 dated 09.10.2024 & DG/Con/Maintenance 2023/13 dated 29.10.2024 issued by CPWD Directorate. |

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| Clause-10-B (ii)                                     | Whether clause 10-B (ii) shall be applicable.                                                                                                                                                                                                                                                                                                | Not Applicable |
| Clause- 10C                                          |                                                                                                                                                                                                                                                                                                                                              | Not Applicable |
| Clause- 10CC                                         | Clause 10 CC to be applicable in contracts with stipulated period of completion                                                                                                                                                                                                                                                              | Not Applicable |
| Clause-11:                                           |                                                                                                                                                                                                                                                                                                                                              |                |
| Specifications to be followed for execution of work: |                                                                                                                                                                                                                                                                                                                                              |                |
| E & M works                                          | 1. CPWD General Specifications for Electrical Works (Part-1) Internal – 2023, with up to date correction slips upto previous day of last day of submission of bids.<br>2. CPWD General Specifications for Electrical Works (Part-II) for External 2023 with up to date correction slips upto previous day of last day of submission of bids. |                |

|                                                                                                                                             |                                                                             |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------|
| CLAUSE 12                                                                                                                                   |                                                                             |                                    |
| Type of work:                                                                                                                               |                                                                             | Construction Work.                 |
| Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 (c) |                                                                             | See Below                          |
| 12.2 (c)                                                                                                                                    | Deviation Limit beyond which clauses 12.2 (c) shall apply for building work | 100%                               |
| CLAUSE 16                                                                                                                                   |                                                                             |                                    |
| Competent Authority for deciding reduced rate thereof.                                                                                      |                                                                             | SE, CPWD, Jodhpur or his successor |
| Clause -17: Defect Liability period                                                                                                         |                                                                             |                                    |
| Note:- (i) Defect liability period(DLP) shall be 12 months after declaring the Entire work completed by the competent authority.            |                                                                             |                                    |
| CLAUSE 18 : As per direction of Engineer-in-Charge & requirement at site.                                                                   |                                                                             |                                    |
| Clause 19 Competent Authority to decide penalty for each default-                                                                           |                                                                             |                                    |
| Clause 19C                                                                                                                                  | Competent Authority to decide penalty for each default                      | As per GCC 2023 Provisions         |
| Clause 19D                                                                                                                                  | Competent Authority to decide penalty for each default                      | As per GCC 2023 Provisions         |
| Clause 19G                                                                                                                                  | Competent Authority to decide penalty for each default                      | As per GCC 2023 Provisions         |
| Clause 19K                                                                                                                                  | Competent Authority to decide penalty for each default                      | As per GCC 2023 Provisions         |

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| Clause 25 | Conciliator                     | Special Director General ,CPWD , Chandigarh |
|           | Arbitrator Appointing Authority | S E ,CPWD , Jodhpur or his Successor        |
|           | Place of Arbitration            | Jodhpur (Rajasthan)                         |
|           |                                 |                                             |

**Clause-32: Requirement of Technical Representative(s) and Recovery Rates :**

| Sl. No. | Minimum Qualification of Technical Representative | Discipline | Designation (Principal Technical/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 Per person |                                  |
|---------|---------------------------------------------------|------------|------------------------------------------------------------|--------------------|--------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|         |                                                   |            |                                                            |                    |        | Figures (Rs. Per person per month)                                                                                        | Words (Rs. Per person per month) |
| 1       | Graduate Engineer Or Diploma Engineer             | E & M      | Principal Technical representative                         | 2 years or 5 years | 1 No.  | 15,000/-                                                                                                                  | Fifteen Thousand Only.           |
| 01      |                                                   |            |                                                            |                    |        |                                                                                                                           |                                  |
|         |                                                   |            |                                                            |                    |        |                                                                                                                           |                                  |

Assistant Engineer (E) (P)  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

केन्द्रीय लोक निर्माण विभाग  
राष्ट्र निर्माण में समर्पित

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## केन्द्रीय लोक निर्माण विभाग

कार्यालय झापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 27.02.2026

Sub: Modification in Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

| Existing Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Modified Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5.2 Performance Guarantee</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>5.2 Performance Guarantee</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sl. No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2. PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions. | 2. PG shall be 5% of the <b>Estimated cost put to tender (ECPT) or contract amount whichever is higher</b> , or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of <b>six months</b> beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions. |
| Sl. No. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>4. No provision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>5. No provision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be</b>                                                                                                                                                                           |

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|  |                                                                                                                                                                                                                                                                                                                      |
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|  | <p>0.8A – 0.7A).<br/> The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This is issues with the approval of DG CPWD.

  
27.02.2026  
((चन्द्र पाल))  
अधीक्षण अभियंता (सी.एण्ड.एम.)  
Chandar Pal, SE (C&M)

**Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)**

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनिवि वेबसाईट के माध्यम से)

  
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**SPECIAL CONDITIONS and CONDITIONS FOR ENGAGEMENT OF ASSOCIATED  
ELECTRICAL AGENCIES  
(FOR ALL E & M COMPONENTS)**

1. The applicant should either himself meet the eligibility conditions for the respective E&M components or otherwise he will have to associate with agencies, fulfilling the eligibility requirements and the consent letter from at least One eligible Associate Agency of the respective components of E&M work shall also be submitted as per attached Proforma.
2. *In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific E&M component and intends doing the job himself, he may not be required to associate with another agency for that E&M component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.*
3. *The main tenderer have to submit the following documents for association of electrical contractors within 10 days of award of work if they themselves do not eligible to do the work .*
  - (a) In support of the eligibility conditions of the proposed associated electrical contractor, copy of their enlistment documents.*
  - (b) Valid Electrical Contractor's License*
  - (c) PAN Card.*
  - (d) GST Registration.*
  - (e) Verifiable work completion certificates duly attested by the applicants (Main Contractor) shall be submitted to the concerned Executive Engineer (Electrical), CPWD, Jodhpur, for deciding the eligibility.*
  - (f) Consent letter from associate agency for executing E&M works in Form-G .*
  - (g) Proposal for associating agency for E&M component of work shall be submitted in Form-“H” of this tender document from each associate independently for all electrical and mechanical components.*
  - (h) Affidavit in Form-J*
  - (i) Willingness Certificate in Form-K*
4. *The Executive Engineer (E) will give approval for associating within 7 days after receipt of proposal from contractor, if submitted documents are found in order.*
5. *Thereafter contractor will have to submit MOU signed with the approved associated agency for this work. The MOU in the enclosed form (Form-I) shall be signed by both the parties i.e. main contractor as 1st party and associated electrical contractor as 2nd party for all electrical and mechanical components and submit the same within 7 days of receipt of approval from Executive Engineer(E&M) or before start of Electrical component of work, whichever is earlier.*

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6. The main contractor has to enter into agreement with contractor associated by him for execution of this work. Copy of such agreement shall be submitted to Executive Engineer (E&M) in charge of as well as Executive Engineer, in-charge.
7. In the event of the concerned E&M agency (Associated agency) is not performing satisfactorily or failure of associate contractor to complete the E&M work, the main contractor on written directions of the department, shall remove the associate agency deployed on the work and shall submit name of new associate agency who fulfill the conditions mentioned in NIT to execute the left over work without any loss of time or variation in cost to the department. Such associate shall also give an undertaking along with the main tenderer that both of them shall stand guarantee for the equipments already supplied for which payment has been released by the Department, in part. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Dept., becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Electrical Contractor will be allowed without prior approval of the Engineer-in-charge of the work.
8. Materials for all E & M works shall be procured only from the original equipment manufacturers/ authorized dealers of OEM. The contractor shall submit all documentary details in fulfillment of this conditions regarding procurement of materials including relevant test certificates.
9. Executive Engineer (E&M) shall be the Engineer-in-charge as far as electrical works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions for Electrical Work are appended with this tender. It will be obligatory on the part of the contractor/ tenderer to sign the tender documents for all the component parts.
10. The contractor shall be responsible and liable for proper and complete execution of the Electrical and Mechanical component of works.
11. **Before completion of defect liability period of one year, the main contractor has to submit Security Deposit of 5% of the price quoted by him for SITC of LED fittings for the remaining 4 years warranty period in acceptable form i.e. FDR/Bank guarantee if the major contractor executes or obtain from his associated agency and submit the same to the concerned Executive Engineer (E&M). The Security Deposit deducted from the bill so if contractor shall be refunded to the main contractor only after submission of Security Deposit for LED fittings, failing which the Security Deposit against LED fittings shall be deducted from Security Deposit for total work and balance amount only will be refunded after completion of defect liability period. The LED Security Deposit will be released after completion of warranty period of 5 years to the agency, who have submitted the LED Security Deposit**
12. The associate contractor along with main contractor or his representative shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

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For components of E&M works, the eligibility criteria will be as detailed below:

| Sl. No | Component of E& M                                     | Eligibility criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Electrical Installation.                              | Eligible enlisted contractor of CPWD in appropriate class & category having valid electrical licence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2      | Solar System<br>(E.C.P.T of Solar Work<br>11.17 Lacs) | <p>The main contractor shall have to associate with agency fulfilling the following eligibility criteria having successfully completed during last seven year sending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested.</p> <p>Three specialized works of similar nature, each costing not less than amount equal to 40% of the Estimate amount of corresponding specialized work(s).</p> <p style="text-align: center;">or</p> <p>Two specialized works of similar nature, each costing not less than amount equal to 60% of Estimate amount of corresponding specialized work(s).</p> <p style="text-align: center;">or</p> <p>One similar work costing not less than amount equal to 80% of Estimate amount of corresponding specialized work(s).</p> <p>NOTE: The specialized agency shall be got approved from the Engineer-in-Charge well in advance.</p> |
| 2      | Any other specialized work                            | As per the above specified qualification criteria with the approval of the engineer-in-charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

- i. If the main contractor fails to associate with agencies for execution of E&M component of work within 10 days of award of work OR before start of E&M component of work whichever is earlier or furnishes incomplete details or furnishes details of ineligible agencies even after the giving sufficient opportunity, the entire scope of such component of work shall be

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withdrawn from the main agency and the same shall be got executed by the Engineer-in – Charge at the risk and cost of the main agency.

- ii. The main contractor will submit MOU signed with eligible registered composite contractor of CPWD or Specialized agency. The MOU in the enclosed form shall be signed by both the parties' i.e. main contractor as 1st party and associated electrical contractor as 2nd party.
- iii. **The main contractor has to enter into agreement with contractor associated by him for execution of E&M component Having detail of all Technical and Commercial Understanding between the Main Agency and Associated Agency . Copy of such agreement shall be submitted to Executive Engineer (E) in charge of major component.**
- iv. . Tender accepting authority may approve change of agency in case it is required during the currency of contract.
- v. Verifiable completion certificates of the work, registration/ approval documents as the case may be, duly attested by both associated agency and major contractor shall be submitted within 10 days of award of work OR before start of E&M component of work which ever is earlier. Valid Electrical Contractor's license, self-attested GST registration documents in respect of the associated agencies as the case may be, duly attested by the applicant shall also be submitted within 10 days of award of work OR before start of E&M component of work which ever is earlier.

Assistant Engineer (E) (P)  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

केन्द्रीय लोक निर्माण विभाग

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## Form- "G"

**CONSENT LETTER FROM ASSOCIATE AGENCY FOR E&M WORKS****NAME OF WORK:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)****Agreement No:-**

I/We here by give my con sent to associate with M/s.....,for executing the minor component of work of.....(Mention category).

I/We will execute the work as per specificationsand conditions of the agreement and asper directions of the Engineer-in-Charge for the corresponding E&M work till the completion of the work.

I/We will be responsible for necessary action to handover the installations and for rectification of defects and repair during the Construction /warranty period.

Also I/We will employ full time technically qualified Engineer/supervis or for the E&M component of the work as required for the work.I/We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major component

Signature with date of Associate/E&amp;M Component

Contractor  
AddressContractor  
Address

1. Witness with address

(From major component contractor side)

2. Witnesswith address

(From E&amp;M component contractor side)

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## FORM –“H”

## PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR E&amp;M COMPONENTS OF WORK

**NAME OF WORK:-** SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore. (SH: Electrical Work)

Agreement No:-

I/we here by propose the following agencies as per mentioned against each for executing corresponding E&M component so work. Their consent letter are also attached

| Sl.No | Name of Associated Contractor | Category and class of registration | Enlistment copy/completion Certificates attached | Monetary Limit Of work | Validity of registration | Consent letter attached (Yes/No) |
|-------|-------------------------------|------------------------------------|--------------------------------------------------|------------------------|--------------------------|----------------------------------|
| 1     |                               |                                    |                                                  |                        |                          |                                  |
|       |                               |                                    |                                                  |                        |                          |                                  |

Note: Self Attested photo copies of enlistment order, valid electrical contractor license, annual pre-qualification order, work experience certificates of each agency for each component to E&M work shall be submitted.

Signature of contractor

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## Form- "I"

Rs.100/- Stamp Paper

**MEMORANDUM OF UNDERSTANDING (MOU) FOR ASSOCIATED CONTRACTOR**

M/s. (Name of the firm with full address) .....

(Henceforth called the Main Contractor)

And

M/s. (Name of the firm with full address) .....

(Henceforth, called the Associated Contractor)

**NAME OF WORK:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)****NIT No. : 20/EE(E)/Jodhpur/2026-27**

This MoU is made at ..... on .....  
 between the ..... (herewith called the main contractor) and  
 ..... (herewith called the Associated contractor).

Whereas the main contractor has agreed to entrust the .....(mention component of E&M work) work to the associated contractor.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of this agreement for execution of the .....(mention component of E&M work) in respect of above work. Both of us shall be responsible for the execution of .....(mention component of E&M work) as per the agreement to the extent this MoU allows. In case of any delay in the payment by the main contractor, the associated contractor can apply to the CPWD to release the payment under Clause 7B and deduct the same from the bills of the main contractor. In case of any dispute, either of us will go for mediation by the SE and his decision shall be final and binding on both of us.

We have further agreed as under:

1. The Associated Contractor will execute .....(mention component of E&M work) as per terms and conditions of this agreement.

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2. All the machinery and equipment, tools and tackles required for execution of the .....(mention component of E&M work), as per this MoU, shall be the responsibility of the Associated Contractor.
3. The site staff required for the execution of .....(mention component of E&M work) work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.
4. All the correspondence regarding execution of the .....(mention component of E&M work) work shall be done by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.
5. In case of non-performance, associated contractor will be debarred from participation or association in the CPWD tenders by the CPWD.

(Authorized Signatory)

SIGNATURE OF THE MAIN  
CONTRACTOR

Date : .....

Place : .....

Witness with address (From main contractor  
side

(Authorized Signatory)

SIGNATURE OF ASSOCIATED  
CONTRACTOR

Date : .....

Place : .....

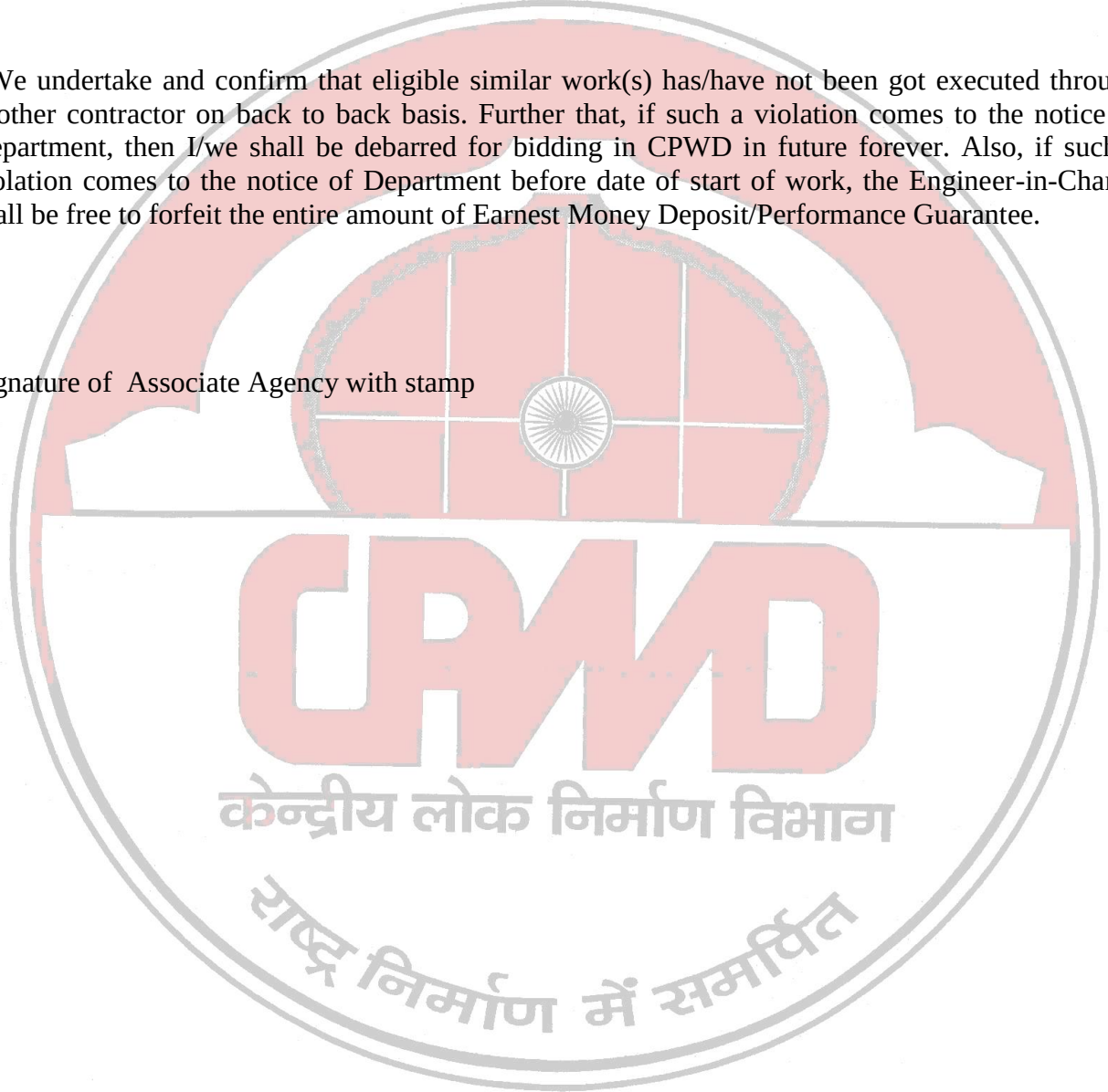
Witness with address (From Associate  
contractor side)

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**Affidavit****( For E&M associate agencies )**

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

Signature of Associate Agency with stamp



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**Form- K**  
**WILLINGNESS CERTIFICATE**

**NAME OF WORK:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

I hereby give my willingness to work as electrical contractor for the specialized work of “\_\_\_\_\_” in the above mentioned work. I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer –in Charge. Also, I will engage full time technically qualified supervisor/engineer as per terms & conditions of agreement for this works. I will attend inspections of officers of the department as and when required.

Date: \_\_\_\_\_

Place: \_\_\_\_\_

[Signature of the Associate Electrical Contractor]

[Stamp with Address]

**केन्द्रीय लोक निर्माण विभाग**

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**PART – B****GENERAL/SPECIAL CONDITIONS, SPECIFICATIONS AND  
SCHEDULE OF WORKS.**

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**GENERAL TERMS AND CONDITIONS****NAME OF WORK:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)****1.0 General**

1.1 The copy of CPWD General Specifications are readily available in CPWD website [www.cpwd.gov.in](http://www.cpwd.gov.in) under the link publication.

**1.2 Location:**

Work shall be carried out at **Locust Cum-IPM Jalore**. The contractor is advised to visit the site of work to have an idea of the execution of the work; failure to do so shall not absolve their responsibility to do the work as specified in agreement. The brief about work is that it consists of renovation work i.e SITC of Roof Top Solar PVC Generation System etc. to be carried out in **Locust Cum-IPM Jalore**

1.3 The work shall be executed as per CPWD General Specifications as follows :-

1. CPWD General Specifications for Electrical Works (Part-1) Internal – 2023, with up to date correction slips upto previous day of last day of submission of bids.
2. CPWD General Specifications for Electrical Works (Part-II) for External 2023 with up to date correction slips upto previous day of last day of submission of bids.
3. Applicable MNRE specification applicable amended up to last date of bid submission.

And relevant I.E. Rules, industry standards, BIS/IES and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these Specific conditions, as the same are to be read along with schedule of works for the work.

1.4 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.

1.5 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

**2.0 Commercial Conditions****2.1 Type of contract**

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

**1.0 Terms of payment**

1.1 On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer-in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

| S.N | Stage of work                                                                       | Percentage of Rate on Tendered Amount |
|-----|-------------------------------------------------------------------------------------|---------------------------------------|
| a   | Supply of material at site in good condition along with manufacture's test reports. | 70%                                   |
| b   | On completion of installation in all respect.                                       | 20%                                   |
| c.  | Testing, Commissioning & handing over to the department.                            | 10%                                   |

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For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

### 3.2 Security Deposit

Security Deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable subject to a maximum amount of 2.5% of the tendered value. The security deposit shall be released on the expiry of guarantee period of 12 Months stipulated in the contract. Bank guarantee will not be accepted as security deposit.

### 3.3 Performance Guarantee

(a) **5% (Five percent)** of tendered value **OR** Estimated cost Put to Tender (ECPT) (**whichever is higher**) as per OM NO.DG/CON/Construction 2023/24 dated 27.02.2026.

(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount

3.4 Income Tax, labourcess& other statutory deductions etc shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax, GSTetc shall be done after calculation of the above due payments as per clauses 3.1 to 3.3 and net payment shall be reduced accordingly.

### 4.0 Rates

4.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxesincluding GST and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site including temporary Construction of storage, risks, overhead charges, general liabilities/obligations and clearance from Local Body. However, the fee for the Local Body inspections shall be borne by the department.

4.2 The department will not issue Octroi exemption certificate.

4.3 The contractor has to carry out Construction as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account.

### 5.0 Completeness of Tender

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of wall fan 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.

### 6.0 Storage and Custody of Materials

For storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. 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.

### 7.0 Care of the Building

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

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**8.0 Completion Period**

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning, and handing over the entire system to the satisfaction of the Engineer-in-charge.

**9.0 Guarantee**

9.1 All equipments shall be guaranteed for a period of as 12 Months from the date of taking over the installation by the department, against unsatisfactory performance and /or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

9.2 The tender shall guarantee among other things, the following: -

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

**10.0 Power Supply**

In any case, electricity connection at one point shall be provided by client/department, if available and agreed by client department. However, contractor shall be responsible for arranging power supply and there shall be no obligation from department to make available power supply for execution of work and while quoting, contractor has to keep in mind that power and water has to be arranged by contractor himself at his own cost and included in the quoted rates. No hindrance on account of non-availability of power supply from client department or CPWD shall be considered and contractor shall be responsible for any delay in work on account of above.

**11.0 Water Supply**

Arrangement of Water supply for testing & for successful installation & completion of the system shall be in the scope of successful firm without any extra cost.

**12.0 Acceptable Makes of Various Equipments**

The acceptable makes of various equipment's/components/accessories have been indicated in "Make List". The tenderer shall work out the cost of the offer on basis of acceptable makes along with other terms & conditions of contract before quoting the tender. Alternate makes are not acceptable. For makes not available in the contract, contractor shall submit at least three **Reputed make which are already prevalent and approved in other NITs of SE Jodhpur circle for approval by** Engineer-in-charge. Only makes approved in writing by Engineer-in-Charge shall be used at site. Any material brought at site without prior approval of Engineer-in-charge may be rejected, even if the make is available in NIT and contractor shall be responsible for any such rejection of material.

13.0 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment's regarding installation, adjustments operation and Construction including preventive Construction & trouble shooting together with all the relevant data sheets, spare parts catalogue etc all in triplicate.

**14.0 Extent of work**

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- 14.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract. The site of work is available in existing of **Locust Cum-IPM Jalore** The quoted rates shall be deemed to be inclusive of all kind of leads, lifts, clearing of site/jungle and nothing extra shall be paid, whatsoever on such account.
- 14.2 In addition to supply, installation, testing and commissioning of complete installation,, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job
- Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc as required.
  - All supports for cables and MS angles for erection of panels, etc as are necessary.
  - Getting Local Body inspection of Solar system , Electrical installation done & obtaining approval. However, necessary fees for inspection shall be borne by the Department.
  - Arrangement of electric supply (Single / Three phase) and water supply for execution and successful commissioning of the system.
  - Small wiring, inter-connection etc inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble free operation of the equipment.
  - Provision of supports/clamps for equipments, cables etc wherever required.
  - Tools and tackles required for handling and installation.
  - Necessary testing equipments for commissioning.
  - Watch and Ward of materials and/or installation and equipments till their handling over to the department.
  - All minor building works, such as equipments foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.
- 15.0 **Works to be done by the Department**  
Unless otherwise mentioned in the tender specifications the following works shall carried out by the department.
- To make the site available for the work. The contractor should select such equipment for installation as can be properly installed in the spaces shown in specification drawings. While no guarantee can be given minor modification required by the contractor if mentioned in the tender or intimated immediately after the receipt of tender shall be carried out if structurally possible.
- 16.0 Exclusion and work to be done by other agencies:  
The following shall be excluded from the scope of the work:
- Major dismantling of any existing building work.
- 17.0 **Inspection and Testing**
- 17.1 All the tests along with copy of Tax paid bills(Duly attested by agency) of the equipments are required to submit alongwith delivery of material.

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- 17.2 Exclusion and work to be done by other agencies:  
The following shall be excluded from the scope of the work:  
a) Major dismantling of any existing building work.
- 17.3 Copies of all documents of routine and type test certificates of the equipment./cable carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.
- 17.4 After completion of the work in all respects the contractor shall offer the installation for testing and commissioning.
- 18.0 **Validity**  
Tenders shall be valid for acceptance for a period as per major component of work from the date of opening.
- 19.0 **Compliance with Regulations and Indian Standards**
- 19.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
- i) Factories Act
  - ii) Indian Electricity Rules
  - iii) BIS & other standards as applicable
  - iv) Workmen's compensation Act
  - v) Statutory norms prescribed by local bodies, Power supply co., etc.
- 19.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.
- 19.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 500/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.
- 20.0 **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 contractor shall 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 their party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.
- 21.0 **Erection Tools**

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

**22.0 Cooperation with other agencies**

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the Construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/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 completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the 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 tenderer himself.

23.0 The work will be carried out with least disturbance during shifting & shut downtaken in consultation with the client department.

**24.0 Verification of correctness of equipment at Destination**

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

**25.0 Painting**

This shall include cost of painting of the entire installation.

**26.0 Construction**

26.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of 1 year from the handing over of the installation.

**27.0 Interpreting specifications**

In the case of discrepancy between the schedule of Items, the specification and/ or the drawings, the following order of preference shall be observed:-

- (a) Schedule of Work.
- (b) Specific Conditions.
- (c) General Terms and Condition.
- (d) Drawings.
- (e) CPWD Specifications.
- (f) NBC – 2026
- (g) Indian Standard Specifications of B.I.S.
- (h) *Special conditions & additional condition(E&M WORK)*
- (i) *General Terms & Conditions for E&M Work*
- (j) *Special conditions & additional condition mentioned in part-C of NIT*

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## (k) General Terms &amp; Condition mentioned in part-C of NIT

However, the order of preference provided is in general and higher of specifications available in above documents/acts/codes shall be followed. Contractor is advised to quote the rates accordingly keeping in mind that highest of specification available shall be adopted.

- 28.0 General Terms & Condition, Special conditions & additional condition mentioned in part-B of NIT) shall also be applicable for part-C of NIT as well if not specifically mentioned in Part-C of NIT.
- 29.0 For all Extra items OR deviation items payable at market rates, contractor shall submit copy of original Invoice of material along with proof of payment (i.e. RTGS receipt, bank statement etc).
- 30.0 Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used /installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractors bill.
- 31.0 List of Acceptable makes has been provided in NIT. **For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge.** Only approved make & model/material shall be used at site. Any material found at site which has not been approved can be rejected and shall not be paid. Contractor will be solely responsible for non-payment due to use of non-approved material. The submission for material approval shall be minimum two weeks before its use at site.
32. No drawing/technical details submittal shall be accepted through email. Hard copy of drawings duly signed by Contractor's Engineer will only be approved
33. In case of any discrepancy in the size of the items elaborated in the BOQ , the material of next higher size available in the market to that of the size specified in the BOQ shall be provided without any extra cost.
34. If the material specified in the BOQ become non available due to technology advancement or otherwise then the product of better specifications shall be accepted provide there is no functional change of requirement without any extra cost.
35. In case of variation in the light fitting wattage/specifications then the fittings having more lumens per watt shall be preferred and better specification products shall be accepted.
36. In case of any discrepancy/Non availability about the availability of material of requisite specification/size/design as per BOQ the same shall be brought to the notice the deptt. within one week from the publication of bid , otherwise it shall be deemed that the Agency has no objection about the size/design/ specification of the material as depicted in the BOQ . In that case, the item of higher/better specification/size shall be provided during execution without any extra cost and without alteration of the functional requirement.

Assistant Engineer (E) (P)  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

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**FOR ROOF TOP SOLAR POWER PLANT**

1. Solar Photovoltaic Modules shall conform to UL/ CE/ IEC/ IS specifications necessary certification from the reputed laboratory shall be provided by bidder.
2. All materials used must have a proven history of reliable and stable operation in external outdoor applications. Solar modules are designed to operate and perform in relative humidity up to 100% with temperatures between -10 Deg C and +85 Deg C and with stand gust up to 200km/h from back side of the panel.
3. The module frame must be made of corrosion resistant materials, which is electrolytically compatible with the structural material used for mounting the module. Module Junction box (weather resistant) shall be designed for long life outdoor operation in harsh environments.
4. Module Mounting Structure shall support SPV modules at a given orientation, absorb and transfer themechanical loads to the roof properly. There shall be no requirement of welding orcomplex machinery at site. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from SPV panels & shall withstand heavy winds. The supplier/ manufacturer shall specify installation details of the PV modules and the support structures with appropriate diagrams and drawings.  
Module mounting structure shall be made up of Hot dip galavalizedtion. Super structure shall bedesigned& fabricated according to site condition.
5. Support structure design and foundation or fixation mounting arrangements shouldwithstand minimum horizontal wind speed of 200kms/ hr (Designed value shall begreater than 200kms/ hr). All fasteners shall be of Stainless steel – SS 303.
6. The junction boxes shall be dust free, vermin and waterproof and made of FRP/ ThermoPlastic with IP67 protection. The terminals shall be connected to copper bus bararrangement of proper sizes. The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming and outgoing cables. Suitable markings shall be provided on the bus bar for easy identification and cableferrules shall be fitted at the cable termination points for identification.
7. **INTEGRATION OF PV POWER WITH GRID:**
  - i) The agency has to install the Bi-directional meter for net-metering purpose or conditions pertaining to Net Metering Policy of RSEB/JdVVNL within the scope of the item of SITC of the Solar PV system.
  - ii) CEA guideline 2013 or MNRE guidelines/ latest for interconnecting solar power with Grid shall be followed.
  - iii) Certification of Islanding protection in the inverter/PCU from the manufacturer of the equipment shall be mandatory. This shall be arranged by the supplier from the manufacturer.
  - iv) Verification report / test report shall be issued by the DISCOM or their authorized agency.
  - v) Agency shall do the liaisning with JdVVNL however any statutory charges for application shall be paid in Department.

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8. Nos. copper strip of size 25mm x 5mm shall be supplied and fixed as per CPWD specification for earth bus of the sub-station to connect the system within the quoted rates. Nothing extra shall be paid on this account.
9. Agency shall submit the technical data sheet details of structure suitable as per above mentioned criteria for approval from Engineer in charge within 10 days from date of start of work. In wrong submission shall not be valid.
10. The sites are remotely located and at far distance . The contractor are advised to visit the site in details and their quote rare accordingly.
11. The lowest tendered after acceptance of tender and at the time of submission of TDS shall submit under taking from OEM regarding.
  - a) Authorisation Certificate.
  - b) The OEM is un conditionally support the lowest tenderer technically throughout the execution of contract as well as for maintenance/comprehensive maintenance contract for the useful life of the system.
  - c) OEM Provides all the spares required for healthy functioning of the equipments for the atleast seven years from the date of supply of equipment.
12. Officers of the department may conduct inspection before dispatch of equipments/materials at manufacturer's works. The contractor has to arrange facilities for inspection of equipments/materials including conducting the required tests in the manufacturing unit.

Assistant Engineer (E) (P)  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

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**SPECIFIC CONDITIONS****A- FOR ELECTRICAL INSTALLATION**

1. All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
2. All hardware materials such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron.
3. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
4. While laying conduit, suitable junction boxes shall be left for pulling the wires.
5. Copper wire shall be FRLS PVC insulated multi-stranded conductor. Termination of multi-stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.
6. Material to be used in the work shall be ISI marked. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
7. Where switches/sockets/telephone outlets are to be provided, the same shall be of only one make and GI box shall be of same make as Modular switch/socket.
8. The earthing shall be carried out in the presence of the Engineer-in-Charge or his authorized representative. Earthing shall be accepted only after verification of earth resistance at site by Engineer-in-charge or his authorized representative.
9. All fittings/fans will be earthed as per specifications.
10. Sockets used shall be interlocking shutter type.

Assistant Engineer (E) (P)  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

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**SHOP DRAWINGS & SPECIFICATIONS**

1. The Contractor shall submit to the Engineer - in -Charge two copies of Shop Drawings for Electrical work for approval before start of work. Subsequent to the approval of the shop drawings, the Contractor shall submit six copies of Shop Drawings for execution to the Engineer-in-Charge.
2. Shop drawings shall be submitted for the following conditions:
  - (a) Conduit layout plan
  - (b) Layout plan indicating location and heights of all fitting, fixtures
  - (c) Single Line Diagram for Distribution Circuit starting from Main Supply till DBs indicating capacities of components.
3. The Contractor can only commence the work after the approval of above documents by Engineer-In-Charge.

Assistant Engineer (E)(P) Jodhpur  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

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**COMPLIANCE TO MAKE IN INDIA POLICY**

1. **Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.**
2. All the material supplied by the Agency should be in line with the Make in India guidelines, if there are some makes fulfilling the specifications & Make in India guidelines, then same should be brought to the notice of this office for necessary action.

Assistant Engineer (E)(P) Jodhpur  
CPWD Jodhpur

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

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**List of approved makes to Followed During Execution of Work**

| S.No. | Details of Materials/Equipment                                                                                                                      | Manufacturer's name/make                                                                                                                |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|       | <b>I.E.I, MCBDB &amp; MCB, Cables and Wires</b>                                                                                                     |                                                                                                                                         |
| 1     | MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's.                                                                                                | Schneider Electric ACTI-9N/ Legrand(DX3)/L&K(Axora)/Siemens(Betagard)/ABB(SB200M)/Hager                                                 |
| 2     | MCBDB & Loose Wire Box.                                                                                                                             | Legrand (EKINOX3)/ Schneider Electric ACTI-9 /ABB (ITUS)/Siemens (Simbox63)/ Hager (Novello)/ L&K(Axora)/                               |
| 3     | Change Over Switch.                                                                                                                                 | L&T/Havells/HPL/C&S/Legrand/ABB/Hager                                                                                                   |
| 4     | Automatic Transfer switch(ATS)                                                                                                                      | Cummins/Asco/Russelectric/ABB/ L.K /GE                                                                                                  |
| 5     | FRLS PVC insulated copper conductor single core cable for wiring (ISI marked).                                                                      | Finolex/RR Kabel/ Havells                                                                                                               |
| 6     | Armoured/Unarmoured telephone cable and Co-axial cable                                                                                              | Delton/Finolex/RR Kabel/Bonton/ Havells                                                                                                 |
| 7     | MS Conduit (ISI Marked) with Heavy Duty MS conduit pipe Accessories.                                                                                | BEC/NIC/AKG/RMCON/Steel Kraits                                                                                                          |
| 8     | PVC conduit (ISI Marked) with heavy duty PVC conduit pipe accessories                                                                               | AKG/Norpack/BEC/Polycab/Precision/Finolex/Astrol                                                                                        |
| 9     | Modular switch, socket/Telephone socket/cable TV socket/Data outlet socket/fan Regulator/GI Boxes and cover plate, blanking plate, Modular MCB etc. | Legrand (Myrius)/Schneider Electric (Zencelo)/Honeywell (Blenz Pro)/ABB(IVIE)/Wipro (North West Platia)Hager (Insysta)/Havells (Murano) |
| 10    | PVC Trunking/DLP Trunking                                                                                                                           | MK(Honeywell)/Legrand/ Schneider/Hager./OBO Betterman                                                                                   |
| 11    | G.I/MS pipe                                                                                                                                         | Tata/Jindal(Hissar)/Prakash Surya                                                                                                       |
| 12    | Synthetic enamel paint                                                                                                                              | ICI Dulux/Asian/Nerolac                                                                                                                 |
| 13    | Terminal Blocks and Connectors                                                                                                                      | Elmex/Wago/Hensel/Connectwell/Essen/L&T                                                                                                 |

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|----|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 14 | Phenolic Laminated Sheet/Bakelite Sheet                                                    | Hylam/Formica/Greenlam                                                                        |
| 15 | Cat-6 Cable/Wire & Fiber Optic Cable/CAT 6A                                                | Amp/Avaya/Beldon/Legrand/Delton/Molex/Agilon                                                  |
| 16 | XLPE insulated PVC sheathed Al./Copper ConductorArmoured/Unarmoured cable of 1.1 KV grade. | Finolex/RR Kable/ Havells                                                                     |
| 17 | GI/Copper Strip and Earthing material                                                      | Bharti/Indiana/Slotco                                                                         |
| 18 | Chemical Earthing                                                                          | JMV LPSLtd./PragatiElectrocom/Ecosafe/Duval Messien(Terec)                                    |
| 19 | Occupancy Sensor/Lighting Control System                                                   | Philips/Schneider/Legrand/Siemens                                                             |
| 20 | Polycarbonate Junction Box/Enclosure                                                       | Hensel/Spelsberg/Naptune-Bals/Sintex                                                          |
| 21 | High Mast Pole                                                                             | Bajaj/ / Crompton/ Valmont                                                                    |
|    | <b>Substation and DG sets</b>                                                              |                                                                                               |
| 22 | Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor based (Ics=Icu=100%)   | Schneider Electric (CVS Series)/Siemens (VJ Series)/L&T(Dsine)/Legrand(DPX3)/ABB(TMAX)/ Hager |
| 23 | Power/Aux. Contactor 3/4 pole                                                              | Schneider /L.K/BCH/Siemens/Legrand/ABB                                                        |
| 24 | Potential Transformers/Current Transformer                                                 | Automatic Electric/Gilbert & Maxwell/L&T/Kappa/                                               |
| 25 | LED type, Indicating Lamps/Push Button.                                                    | Schneider/ABB/L.K/Siemens/Vaishno/C&S                                                         |
| 26 | Overload relays with built in Single Phase Preventer                                       | Schneider Electric /L.K /Siemens/ABB/C&S/BCH/Legrand                                          |
| 27 | Conventional/Electronic Digital Meters(A/V/PF/Hz/KW/KWH)                                   | Conzerv/ L.K /Secure/AE/Siemens/Schneider/ABB                                                 |
| 28 | Timer                                                                                      | Siemens/L.K/Legrand/ABB/Schneider Electric/BCH                                                |

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| 29 | Fasteners/ GI clamp                                          | Hilti/Fischer/Canon/Wurth                                                   |
| 30 | D.W. Corrugated HDPE Pipe(ISI marked)                        | REX/Tirupati/Supreme/Jain Irrigation/                                       |
| 31 | Capacitor & Reactors/APFC Relay                              | EPCOS/ L.K /DUCATI/ABB/siemens/Schneider/ Legrand                           |
| 32 | Cable Glands Double Compression with earthing links          | Baliga Lighting/Comet/Cosmos/Dowell's/Gripwell/ Raychem                     |
| 33 | Bimetallic Cable Lug/Thimble                                 | Comet /Dowell's/Hax Brass(Copper Alloy India)/Schneider/                    |
| 34 | MS/GI cable tray                                             | Schneider/Legrand/MK(Honeywell)/ Pilco/slotco/pasco/MEM/ BEC/ steelways     |
| 35 | Selector Switch & Toggle switch                              | Salzer (L.K)/Siemens/ Kaycee/Rishabh/ABB/Legrand/Schneider                  |
| 36 | SMF Battery                                                  | Exide/Amara Raja/HBL/Amco                                                   |
| 37 | IDMT Overcurrent and Earthfault Relay                        | Areva/ L.K /Siemens/Schneider/ABB                                           |
|    | <b>Solar Water Heating and Solar Power Generation System</b> |                                                                             |
| 38 | Solar Photovoltaic System                                    | Tata Power Solar/Moser Baer/Jackson Solar/BEL/CEL/Havells Solar Edge/Vikram |
| 39 | Junction Box                                                 | VNT/Sun Garner/OEM of SPV Modules                                           |
| 40 | SPV Inverter                                                 | Sungrow/Delta/SMA/ABB                                                       |
| 41 | Module Mounting Structure                                    | As per MNRE/Manufacturer's Standard                                         |
| 42 | Solar Cable XLPO insulated (DC)                              | RR Kabel/Polycab/Finolex/Lapp/KEI                                           |

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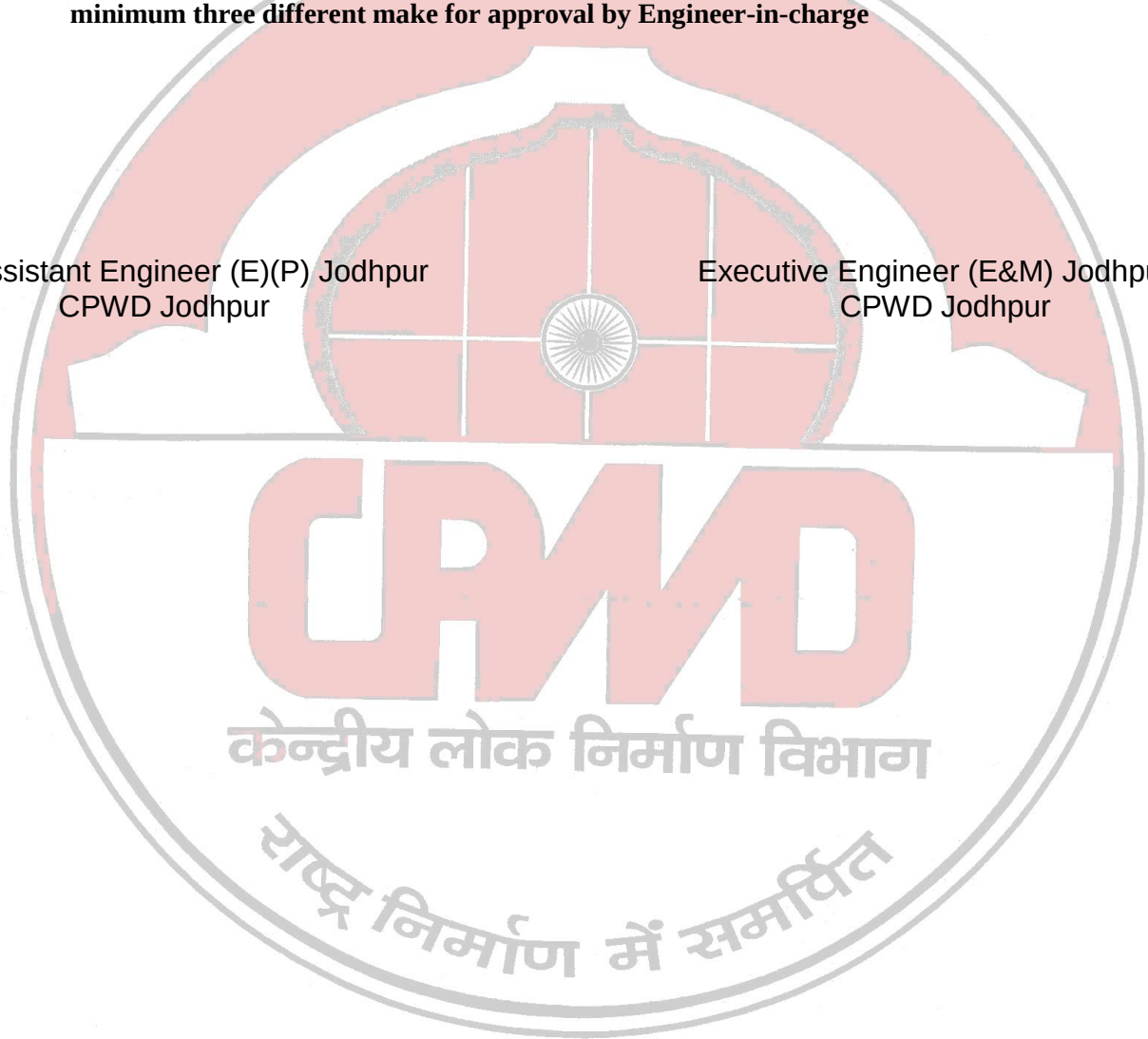


**Note: 1. Only applicable items as per requirement of the tender.**

- 2. Department reserves the right to reject any material used without Prior approval from Engineer-in-Charge. No payment shall be made for such rejected material.**
- 3. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.**
- 4. For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge**

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## Schedule of Work

**NAME OF WORK:- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)**

| S.No. | Item code | Description of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qty | Rate | Unit | Amount |
|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|--------|
| 1     |           | <b>Solar Photovoltaic Power Plant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |        |
|       | 17.1      | Supplying Installation, Testing and Commissioning of on-grid Solar Photovoltaic Power Plant conforming to various applicable standards BIS, IEC, MNRE guidelines, the Central Electricity Authority Regulations and CPWD Specifications as amended up to date, consisting of Mono/Poly Crystalline silicon solar cells module, net metering facility, necessary control, protections, earthing, cabling, mounting structure, junction boxes, power conditioning units, Real time online web interfaced Data Monitoring System, Distribution panels, grid connecting arrangement, conduits, pipes, cable trays and other accessories etc. as required                                                                                                                                                                                                                                                                                                                                                    |     |      |      |        |
|       | (a)       | High Energy Efficiency Solar Photovoltaic Module of capacity 330 Wp or above, manufactured in India, conforming to IS 14286/IEC 61215, IS/IEC 61730-Part-1, IS/IEC 61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 23% at STC with temperature coefficient of Pmax better than -0.30% per °C. PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. Solar Modules shall be designed to operate in relative humidity upto 100% with temperature between -10 °C and +85 °C. Further, each PV module used in any solar power project must have Radio frequency identification tag with information such as name of manufacturer, month and year of manufacturing, country of origin (separately for Solar cell and module), I-V curve, Unique Serial No and Model No of the module, Wattage, Im, Vm and FF, name of test lab |     |      |      |        |

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|--|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  |     | issuing IEC certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|  | (b) | <p>Power Conditioning Unit (PCU) of 350-800 V DC Input voltage range and 415 V AC, three phase, 4 wire, 50Hz +/- 2.5 Hz, output voltage suitable to generate AC with a variation of 10% at nominal voltage. Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 °C, Minimum IP-65 for outdoor and Minimum IP 21 for indoor, Built-in meter and data logger, MPPT, switching devices IGBT/MOSFETs and controller Microprocessor /DSP. PCU/inverter shall be capable of complete automatic operation including wake-up, synchronization &amp; shutdown. The PCU shall be able to withstand unbalanced load conforming to IEC standard with shutdown/standby mode. It must be provided with grid islanding along with manual disconnect pole isolation switch besides automatic disconnection. Minimum protections: Mains Under / Over Voltage, Over current, Over/Under grid frequency, Over temperature, Surge voltage induced at output due to external source, Short-circuit, Lightning, Anti Islanding (for grid synch. Mode) and other protections as per applicable standards. LCD/LED display of minimum parameters: DC input voltage, DC current, AC Voltage and current (all 3 phases, in case of 3 phase), Instantaneous &amp; cumulative AC output power, Daily DC energy produced and other parameters applicable standard. Communication interface RS 485 / RS 232.</p> |  |  |  |

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|--|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  | (c) | Module mounting structure: The roof top solar plant generation units shall be installed by using supporting Aluminium/Galvanized MS structure (mass of zinc coating shall be as per IS4759 ) having minimum head room clearance of 2.4 meter above the terrace level /ground level. The mounting structure would be designed to sustain wind load and seismic parameter of the site of installation. All the structure shall be design as per applicable BIS code and the material shall also confirm the applicable BIS Code. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. The suitable arrangements for maintenance and cleaning shall be provided. |  |  |  |
|  | (d) | Real time online web interfaced Data Monitoring System complete with accessories for various parameters such as Solar Irradiance, temperature, AC Output Voltage and current, Output Power, Power factor, DC Input Voltage and Current, Time Active, Time disabled, Time Idle, Power produced and other parameters as per standard practices.                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|  | (e) | Array junction box & Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required. Each junction box shall be made of GRP/FRP/Powder Coated Aluminium /cast aluminium alloy with full dust, water & vermin proof arrangement with High quality Suitable capacity Metal Oxide Varistors(MOVs) (semiconductor diode with resistant applied voltage)/ surge arrestors and suitable Reverse Blocking Diodes, isolation switches isolate the DC input to Inverter, copper bus bar etc.                                                                                                                                                                               |  |  |  |
|  | (f) | Lightning, surge voltage protection, earthing protection and grid islanding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
|  | (g) | Cables: Connections & Interconnections by required size IR/UV protected XLPE insulated copper conductor 1.1 kV grade armored power and control cables(ISI Marked) along with supplying & fixing of necessary channel/conduit, GI cable trays, supports,lugs, thimble and other accessories etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |

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|--------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|--------------|
|              | (h)     | DC Distribution Board And AC Distribution Panel Board: IP65, free standing, metal clad, having copper bus bar, having required protection and control gears, connection-interconnection, etc. as required.                                                                                                                                                                               | 18  | per KWp | 54280.00 | 977040.00    |
|              |         | <b>Note: The item is holistic and total in nature, agencies are advised to visit the sites on their own cost and quote rates accordingly.</b>                                                                                                                                                                                                                                            |     |         |          |              |
| 2            | M/R     | Supplying one number XLPE insulated PVC sheathed Al. Conductor armoured cable of 1.1 KV grade of following sizes Conforming to IS. 7098/1988 with upto date amendment etc. as reqd.                                                                                                                                                                                                      |     |         |          |              |
| 2.1          | (a)     | 3.5 x 50 Sqmm                                                                                                                                                                                                                                                                                                                                                                            | 50  | Mtr     | 748.00   | 37400.00     |
| 2.2          | (b)     | 3.5 x 25 Sqmm                                                                                                                                                                                                                                                                                                                                                                            | 130 | Mtr     | 435.00   | 56550.00     |
| 3            | 15.2    | 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 but excluding sand cushioning and protective covering etc., complete as required. |     |         |          |              |
| 3.1          | 15.16.1 | 63 mm dia (OD-63 mm & ID-51 mm nominal)                                                                                                                                                                                                                                                                                                                                                  | 120 | Mtr     | 289.00   | 34640.00     |
| 4            | 10.5    | 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 pipe as required.                                                                                                                                                                                                                              |     |         |          |              |
| 4.1          | 10.5.2  | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                                                                       | 50  | Mtr     | 72.00    | 3600.00      |
| 5            | 10.7    | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required                                                                                                                                                                                                                                          |     |         |          |              |
| 5.1          | 10.7.1  | Upto 35 sq. mm (clamped with 1mm thick saddle)                                                                                                                                                                                                                                                                                                                                           | 120 | Mtr     | 64.00    | 7680.00      |
| <b>Total</b> |         |                                                                                                                                                                                                                                                                                                                                                                                          |     |         |          | 11,16,950.00 |

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## Bid

## Central Public Works Department

NIT No. : 20/EE(E)/Jodhpur /2026-27

Name of Work :- SITC of Solar Photovoltaic Power Plant at LCIPMC, Jalore.(SH:Electrical Work)

## SCHEDULE OF QUANTITY

Name of the Contractor :-

| S.No | Name of Component                | Estimated Cost Composite | Percentage above or below the estimate cost | % in Figures | Total Cost |
|------|----------------------------------|--------------------------|---------------------------------------------|--------------|------------|
| 1    | Estimate Cost (Rs.: 11,16,950.00 | Rs.: 11,16,950.00        |                                             |              |            |
|      | Total                            |                          |                                             |              |            |

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