भारत सरकार
केन्द्रीय लोक निर्माण विभाग
**GOVERNMENT OF INDIA**
**CENTRAL PUBLIC WORKS DEPARTMENT**
***o/o the Executive Engineer[E], Kolkata-II, CPWD, Kolkata-20***
***Region: - Kolkata:: Zone: - Chief Engineer, Kolkata :: Division: - Kolkata-II :: Sub-Division: -II***

## NOTICE INVITING e-TENDERS

***Name of Work ► Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

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The bid forms and other details can be obtained from the website *https://etender.cpwd.gov.in* or *www.cpwd.gov.in*

***This NIT contains 1 to 44 pages excluding cover.***

*Assistant Engineer[E][P]*
*Kolkata-II,CPWD,Kolkata-20*

*Executive Engineer[E]*
*Kolkata-II,CPWD,Kolkata-20*

**INFORMATION AND INSTRUCTIONS FOR-BIDDERS FOR E-TENDERING FORMING**

***(Applicable for inviting open bids)***

The Executive Engineer[E], Kolkata-II, CPWD, Nizam Place, Kolkata-700020, (eekced2-wb@nic.in: 033-22908563), invites on behalf of the President of India online percentage rate e-tenders from **Manufacturers (OEMs)/ Specialized firms/Approved and Eligible CPWD Building & Roads category contractors of appropriate class in the field of "Installation of Rooftop Solar"** , as per **OM No. DG/Enlist.Rules-2026/Misc./01 dated 31.12.2025** for the following work:

| NIT No | Name of work | Estimated Cost put to bid | Earnest Money | Stipulated Period of Completion of Work | Last date of online submission of bid, copy of EMD declaration and other documents as specified in the bid | | Date & time of opening of price bid |
|---|---|---|---|---|---|---|---|
| 77/NIT/EE(E)/KOL-II/CPWD/2026-27 | ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).*** | Rs. 10,85,600.00 | Rs.21,712.00 | 03 Months | 12.11.2026 at 17.00 Hrs. | | 12.11.2026 at 17.30 Hrs. |

1.

(a) Specialized firms / agency who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.

They should have satisfactorily completed the works as mentioned below during the last Five years ending Last date of the month previous to the one in which tenders are invited:

(i) One similar work costing not less **Rs. 8.68 Lakhs.**

OR

(ii) Two similar works each costing not less than **Rs. 6.51 Lakhs.**

OR

(iii) Three similar works each costing not less than **Rs. 4.34 Lakhs.**

The Definition of Similar work: **"Installation of Rooftop Solar."**

(b) The successful Approved and Eligible CPWD Building & Roads category bidder is eligible to execute the work either by itself by providing work experience Certificate as stated above at 1(a) in its name or shall further associate with Specialized firms / agency who fulfill the work experience requirements as stated above at 1(a) or He directly procures the equipment of approved make from manufacturer/OEM of **Rooftop Solar PV Power Generation System** at Annexure-A and get it installed from authorized agency/ service provider of the manufacturer/OEM of the Specialized E&M work**. (Not applicable for OEM).**

(c) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of submission of tender **(Not applicable for OEM).**

The above completion certificate must be enclosed with the copy of Final Bill Quantity/SOQ, which is required for the computation of financial quantum of work experience as per definition of similar work.

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

3. Information and Instructions for bidders posted on website shall form part of bid document.

4. 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.

5. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer 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 Bankers Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any schedule bank towards EMD in favour of Executive Engineer (E), KCED-I, CPWD, Kolkata, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE(P)/AAO), CPWD and other documents are specified.

6. The bidder shall read the document carefully before participate in the bidding process. The EMD/PG shall be given to the department in the name of Executive Engineer(E) ,KCED-I. CPWD ,Kolkata only, otherwise if any Discrepancies as observed at the time of opening of the bid, the offer of the bidders shall be summarily rejected without giving any reason. No post tendering complaint shall be entertained by this office.

7. That contractor 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 details available on the website.

8. The intending bidder must have valid class-III digital signature to submit the bid.

9. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheet.

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

11. Contractor must ensure to quote rate in the column (5) meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.

12. 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).However, if a tendered quoted 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 in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tendered.

13. SC/ST contractors enlisted under class V category are exempted from processing fee.

All the receipts to be received as Performance Guarantee Money, Late Fee, Deposits of works etc.

should made only through E-Payment/NEFT/ RTGS using Non-Tax Receipt Portal (NTRP) of the Government of India for which they have to register themselves in Bharatkosh.gov.in before making payments.

The following references should be taken care of while making payments with regards to this Division :-

| | | |
|---|---|---|
| **a.** | Purpose | Deposit Works, Performance Guarantee, Late Fee |
| **b.** | Payment Type | (i) Part-2, for Earnest Money |
| | | (ii) Part-3, for Deposit of Works |
| | | (iii) Part-5, for Performance |
| **c.** | Ministry | (030) Urban Development & Urban Poverty Alleviation |
| **d.** | Pay & Accounts Office (PAO) | 043460 – PAO (East Zone), CPWD, Kolkata |
| **e.** | Drawing & Disbursing Officer (DDO) | 143491- Executive Engineer (E), Kolkata Central Electrical Division - I, CPWD, Kolkata |

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

**i.** Insurance of Surety Bond, Demand Draft/Account Payee Banker's Cheque/FDR/Bank Guarantee of any commercial Bank against EMD in favour of **"Executive Engineer (E) or EE(E), KCED-I, CPWD, Kolkata."**

**ii.** Copy of receipt for deposition of original EMD issued from any Division office of CPWD (including NIT issuing EE/NIT issuing AE).

**iii.** *Enlistment Order of the Contactor. (for CPWD Enlisted Contractor).*

**iv.** ***Certificate of ERP Training from any of the CPWD Regional Training Institutes (RTIs) issued through LMS (Learning Management System) in ERP.***

**v.** Copy of Original Equipment Manufacturer (OEM) Certificate in case of OEM only.

**vi.** Certificate of Work Experience (for specialized works only) (Mandatory as per Para 4 & 5/Page 2-3)) or, Undertaking to associate specialized agency as per format given in page no. 35, Form – A.

**vii.** DECLARATION ABOUT SITE INSPECTION **(FORM-'F')-** given in page no. 35 in this NIT.

**viii.** ***GST Registration Certificate for the applicable state, i.e. West Bengal, if already obtained by the bidder .***

*If the bidder has not obtained GST registration as applicable i.e. for West Bengal, then he shall scan and upload following undertaking along with bid documents.*

**Undertaking for GST**

*"If work is awarded to me. I/we shall obtain GST registration certificate, as applicable i.e. for West Bengal, 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 is this regard"*

**ix.** ***Valid Electrical License or under taking as per Enlistment rule as below :-***

**Undertaking for Electrical License**

*This is to undertake that I/we will either obtain valid Electrical License at the time of execution of electrical work or associate contractors/agencies having valid electrical license of eligible class.*

*The above list of documents to be scanned and uploaded within the period of Bid submission. In case of any shortcomings of the above documents your bid shall be summarily rejected without assigning any reason.*

*•The bidder shall submit the documents for associating agency in case of composite contractor of CPWD enlisted as per U/T shall be along with the work credential as per PQ Criterion. Simply U/T letter without work credential shall not be accepted/entertained and bid shall be summarily rejected.*

*• No post tendering activities i/c complaint shall be entertained.*

***Assistant Engineer[E][P]***
***Kolkata-II,CPWD,Kolkata-20***

***Executive Engineer[E]***
***Kolkata-II,CPWD,Kolkata-20***

**RECEIPT OF DEPOSITION OF ORIGINAL EMD**

(Receipt No. _____ / Date: _____/_____/2026)

***Name of Work ► Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

**NIT No. ► 77/NIT/EE(E)/KOL-II/CPWD/2026-27**

**Estimate Cost** **Rs. 10,85,600.00**

**Amount of Earnest Money Deposit** **Rs.21,712.00**

**Last date of submission of bid** **12.11.2026 at 17.00 Hrs**

***(EMD Should be drawn in favour of Executive Engineer (E), KCED-I, CPWD, Kolkata)***

**Name of the Contractor #** _____

**Form of EMD #** _____

**Amount of Earnest Money Deposit #** _____

**Date of submission of EMD #** _____

TO BE FILLED BY RECEIVING OFFICE

*Signature:-* _____

*Name:-* _____

*Designation :-* _____

*Email :-* _____

EMD Receiving officer
(EE/AE (P)/AAO) along with office stamp)

| CPWD-6 | |
|---|---|

## CPWD-6 for E-Tendering

On line percentage rate bids are invited on behalf of President of India from Eligible CPWD registered (B&R) contractors in appropriate class of composite category for the work :

*Name of Work:* ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

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

1.1 **The work is Estimated Cost Rs. 10,85,600.00. This estimate, however, is given merely as a rough guide.**

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimate cost put to bid, should clearly indicate the estimate cost of each component separately, the eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works (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 to bidding in CPWD in future forever. Also, if such as violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free of forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid)

1.2.1 Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD Contractors. For works estimated cost upto tendering limit of class -I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture category). (i) Three similar works each of value not less than 40% of Estimated Cost or two similar works each of value not less than 60% of Estimated Cost or one similar work of value not less than 80% of Estimated Cost (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.

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

1.2.2 Criteria of eligibility for CPWD as well as non-CPWD contractors, For works estimated to cost above the tendering limit of class -I (Super) Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture Category). (i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs.....or one similar work of value not less than Rs.....(all figures rounded to nearest convenient figure ) during the last 7 years ending last day of the month previous to the one in which tenders are invited.

1.2.3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non CPWD contractors and CPWD class II contractors to upload the works experience certificate (s) and the affidavit as per the provisions of clause 1.2.2.

But for such bids, Class-I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore CPWD class-I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters in mandatory otherwise system will not clear mandatory fields.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be 12 (Twelve) Months from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with date phasing, if any, indicated in the bid documents.

4. The site for the work is available.

5. The bid document consisting of plants, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website https://etender.cpwd.gov.in or www.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 more items (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. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.

9. Earnest Money in the form of Demand Draft of Pay Order of Banker's Cheque or Deposit at Call Receipt or Fixe Deposit Receipt drawn in favour of Executive Engineer (E), KCED-I, CPWD, Kolkata shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any schedule bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

9A The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

The price bid submitted shall be opened at **12.11.2026 at 17.30 Hrs**

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded it:
(i) The bidder is found ineligible
(ii)The bidder does not upload scanned copies of all the documents stipulated in the bid document.
(iii)If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
(iv)If a tendered quotes nit rates against each item in item rate tender or does not quoted any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tendered.

11. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Three Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form Banker's cheque of any scheduled bank/Demand Draft of any schedule bank/Pay order or any Schedule Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Schedule 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 Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy to applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work and programme chart (Time and Progress) within the period specified in Schedule F.

12. The description of the work is as follows:

***Name of Work:*** ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

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 bidders 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. Submission of a bid by a bidders 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 dome and of conditions and rates at which store, 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.

13. 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 bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

15. 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 bidders shall be bound to perform the same at the rate quoted.

16. 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 Superintending Engineer and Junior Engineer (both inclusive). The 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 gazette 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.

17 No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year
after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as fore said before submission of the bid or engagement in the contractor's service.

18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy-five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system. Further;

a. If and tenderer withdraws his tender within 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
b. If and tenderer withdraws his tender after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
c. In the case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19. This notice inviting Bid shall from a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
(a) The Notice Inviting Bid, all the documents including additional conditions, specification and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
(b)Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

20. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (eekced2-wb@nic.in: **033-22908563**) or ERP helpline no. 18001803286 or e-mail lD cpwd.support@techmahindra.com . The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

*Assistant Engineer[E][P]*
*Kolkata-II,CPWD,Kolkata-20*

*Executive Engineer[E]*
*Kolkata-II, CPWD,Kolkata-20*

| CPWD-7 | CPWD |
|---|---|

**GOVERNMENT OF INDIA**
**CENTRAL PUBLIC WORKS DEPARTMENT**
**Percentage Rate Tender Contract for Works**

Tender for the work of :

*Name of Work* ► ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

**To be uploaded by 12.11.2026 at 17.00 Hrs https://etender.cpwd.gov.in or www.cpwd.gov.in**

**Price bid to be opened in presence of tenderers who may be present on 12.11.2026 at 17.30 Hrs in the O/o the Executive Engineer[E], Kolkata-II, CPWD, Kolkata-20.**

**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, of 2023 with up-to-date amendments 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 of 2023 with up to date amendments and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for 30 (thirty) days from the due date of its opening and not to make any modification in its terms and conditions.
I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

**A sum of Rs.21,712.00 is hereby forwarded in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank is scanned and uploaded. as earnest money.**

If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely. The said performance guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

| **CPWD-7** | **CPWD** |
|---|---|

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 Earnest Money Deposit/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 an on behalf of the President of India for a sum of `…….. (Rupee……).

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

(b)

(c)

Signature ……

*Executive Engineer[E]*

*Kolkata-II,CPWD,Kolkata-20*

*For & on behalf of President of India*

Dated: ……..

** To be filled by Contractor

**PROFORMA OF SCHEDULES**

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

(*Operative Schedules to be supplied separately to each intending tenderer*)

**SCHEDULE 'A'**

Schedule of quantities (As per PWD-3) Page 42-44

**SCHEDULE 'B'**

NIL Schedule of materials to be issued to the contractor.

**SCHEDULE 'C'**

NIL

Tools and plants to be hired to the contractor

**SCHEDULE 'D'**

Extra schedule for specific requirements/document for the work, if

Attached any.

**SCHEDULE 'E'**

Reference to **GCC for Construction work 2023** with up to date amendments

*Name of Work* ► ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

| | | |
|---|---|---|
| **Estimated cost of work** | ► | ₹ 10,85,600.00 |
| **Earnest Money** | ► | ₹ 21,712.00 |
| **Performance Guarantee** | ► | (a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).<br>(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 Tendered Amount |
| **Liability Period** | ► | 12 Months |

**SCHEDULE 'F'**

GENERAL RULES & DIRECTIONS:

| | | |
|---|---|---|
| | Officer inviting tender | ***EE[E]/KCED-II/CPWD/Kolkata*** |
| | 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 | |
| 2(v) | Engineer-in-Charge | ***EE[E]/KCED-II/CPWD/Kolkata*** |
| 2(viii) | Accepting Authority | ***EE[E]/KCED-II/CPWD/Kolkata*** |
| 2(x) | Percentage on cost of materials and Labour to cover all overheads and profits: Standard Schedule of Rates | ***15%*** |
| 2(xi) | | ***MR /DSR 2025*** |
| 2(xii) | Department | ***Central P.W.D.*** |
| 9(ii) | Standard CPWD Contract Form **GCC 2023** | ***CPWD Form 7/8 modified & Corrected up to date .*** |

**Clause 1**

| | | |
|---|---|---|
| (i) | Time allowed for submission of Performance Guarantee from the | ***7 Days*** |
| (ii) | date of issue of letter of acceptance Maximum allowable extension with late fee @ 0.1%per day of performance guarantee amount the period provided in (i) above (1 to 10 days to be filled by NIT approving authority) | ***3 Days*** |

| | |
|---|---|
| **Clause 2**<br>Authority for fixing compensation under clause 2<br>**Clause 2A** | ***CE - Kolkata /CPWD/Kolkata*** |
| Whether Clause 2A shall be applicable<br>**Clause 5**<br>Number of days from the date of issue of letter of acceptance for reckoning date of start | ***NO***<br><br>***10th*** |

**MILESTONE (S) AS PER TABLE GIVEN BELOW**
**Table of Milestone (s)**

| SL No. | Description of Milestone (Physical) | Time allowed in days (from date of start) | Amount to be with-held in case of non-achievement of milestone |
|---|---|---|---|
| **Not Applicable** | | | |

**Authority to decide**

Time allowed for execution of work ► ***03 (Three) Months***

(i) Extension of time ► ***CE - Kolkata /CPWD/Kolkata***

(ii) Rescheduling of mile stones ► ***CE - Kolkata /CPWD/Kolkata***

Shifting of date of start in case of delay in handing over of site ► ***CE - Kolkata /CPWD/Kolkata***

**Clause 7**

Gross work to be done together with net payment /adjustment of ***4.00 Lakhs*** advances for material collected/ if any, since the last such payment for ***or mutually agreed upon*** being eligible to interim payment

**Clause 7A**

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge. Whether Clause 7A shall be applicable: **NO**

| | | |
|---|---|---|
| **Clause 7B** | Applicable as per relevant condition in the | **GCC for Construction work 2023, as corrected & modified up to the last date of tender submission.** |
| **Clause 10B(ii)** | Whether Clause 10 B (ii) shall be applicable | **No** |
| **Clause 10C** | **APPLICABLE** | |
| | Component of labour expressed as percent of value of work | **25%** |

| PROFORMA OF SCHEDULES | | CPWD |
|---|---|---|
| | | |
| **Clause 10CA** | **Not Applicable** | |
| **Clause 10CC** | **Not Applicable** | |

**Clause 11**

**Specifications to be followed for execution of work** **Electrical Work**

1. CPWD General Specifications for Electrical Works Part-I Internal & Part-II External - 2023.
2. CPWD General Specifications for Electrical Works Part-III-Lift & Escalators - 2003.
3. CPWD General Specifications for Electrical Works Part-IV Sub Station – 2013.
4. CPWD General Specifications for Electrical Works Part V Wet Riser & Sprinkler Systems – 2020.
5. CPWD General Specifications for Electrical Works Part VI Fire Detection and Alarm System – 2018.
6. CPWD General Specifications for Electrical Works Part VII D.G. Sets - 2013.
7. CPWD General Specifications for Electrical Works Part VIII Gas Based Fire Extinguishing System - 2013. 8. CPWD General Specifications for Heating, Ventilation & Air-Conditioning (HVAC) – 2024 -with Up To Date corrections slip as on opening of tender.

**Clause 12** **Type of work** ***Construction Work***

**Clause 12.2,12.3,12.5** ***Deviation Limit ► 100%***

***[More than 1.25 upto 1.50 of tendered amount required approval from CE(Kolkata)]***

**Clause 16**

Competent Authority for Deciding reduced rates. ***CE - Kolkata /CPWD/Kolkata***

**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site:-

*a. Screw Driver, b. Tester, c. Test lamp, d. Multimeter, e. Earth Tester, f. Megger, g. Tong Tester, h. Pillar, i. Slide Range/ spanner (various size) j. First Aid Box etc.*

**As required for timely execution of work as per direction of Engineer –in – charge.**

**Clause 19** **Addition-Definitions** (xx) Adolescent Person: A person who has completed his/ her fourteenth year of age but has not completed his eighteenth year. (xxi) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Facto Ac 1948.

**Clause 19B Payment of Wages** *The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 and* ***Gazette Notification 19.01.2017 , S.O 188 (E) extra ordinary part 2 - sec. 3 (ii) amended time to time.***

**Clause 19C**

**Clause 19D** Authority to decide penalty for each default ***EE[E]/KCED-II/CPWD/Kolkata***

**Clause 19G** Authority to decide penalty for each default ***EE[E]/KCED-II/CPWD/Kolkata***

**Clause 19K** Authority to decide penalty for each default ***EE[E]/KCED-II/CPWD/Kolkata***

**Clause 19L** Authority to decide penalty for each default ***EE[E]/KCED-II/CPWD/Kolkata***

*The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis.*

**Clause 19M**

*The contractor shall comply with all provision(s) and guideline(s) of Sexual Harassment of Women at Workplace (Prevention Prohibition and Redressal) Act, 2013 and amendment* ***Sexual Harassment of Women at Workplace*** *thereafter time to time or any other rules framed under any labour law affecting women worker(s).*

**Clause 25**

| | |
|---|---|
| Conciliator- | ***Special Director General (Kolkata)*** |
| Arbitrator Appointing Authority | ***CE - Kolkata /CPWD/Kolkata*** |
| Place of Arbitration | ***Kolkata*** |

**Clause 32** ***Applicable***

***Requirement of Technical Representative(s) and recovery Rate***

| Sl. No | Minimum Qualification of Technical representative | Discipline / Principal | Desig. Technical representative | Minimum Experience | Nos. | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32 | |
|---|---|---|---|---|---|---|---|
| | | | | | | Figures | Words |
| 1 | Graduate Engineer<br>or<br>Graduate Engineer | Elect./Mech | Technical representative | 2 years<br>Or<br>5 years | 1(one) No<br>OR<br>1(one) No | Rs. 15000/- Per Month | Rupees Fifteen thousand |

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

**Clause 38** ***Not Applicable***

**REFERENCE TO APPLICABLE OFFICE MEMORANDUMS**

**All the amendments upto the last date of submission of Bid to General Conditions of Contract 2023 as given in Schedule E of this NIT in Page 14 issued by DG, CPWD, New Delhi shall be applicable and shall form part of the contract / agreement. The OMs can be viewed on website www.cpwd.gov.in.**

*Assistant Engineer[E][P]*
*Kolkata-II,CPWD,Kolkata-20*

*Executive Engineer[E]*
*Kolkata-II,CPWD,Kolkata-20*

## FORM OF PERFORMANCE SECURITY (GUARANTEE)

### BANK GUARANTEE BOND

1. In consideration of the President of India (hereinafter called "the Government") having offered to accept the terms and conditions of the proposed agreement between……and…….. (hereinafter called "the said contractor(s)") for the work …… (hereinafter called "the said agreement') having agreed, to production of an irrevocable Bank Guarantee for Rs…….. (Rupees…….only) as a security/ guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

   We ……(hereinafter referred to as "as Bank")
   (indicate the name of Bank)

   hereby undertake to pay to the Government an amount not exceeding Rs…… Rupees…….only) on demand by the Government.
2. We ……do hereby
   (indicate the name of Bank)
   undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor (s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding
   Rs……(Rupees……only) the Government.
3. We, the said bank further undertake to pay the Government any money so demand notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
   The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We ……further agree that the
   (indicate the name of the Bank)
   guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till Engineer-in-Charge on behalf of the Government certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) accordingly discharges this guarantee.
5. We…… further agree with
   (indicate the name of Bank)
   the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We …… lastly undertake not
   (indicate the name of bank) to revoke this guarantee except with the previous consent of the Government in writing.

8. This guarantee shall be valid up to……..unless extended on demand by

Government. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs. ……(Rupees……only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee, all our liabilities under this guarantee, shall stand discharged.

Dated, the ……Day of…….

For……

(indicate the name of the Bank)

**General Conditions and Specifications for Internal Electrical Installations.**

**1. General**

**1.1** The work shall be generally carried out in accordance with schedule of quantities and the following specifications and conditions.

a. CPWD general specifications for electrical work Part-I internal- 2023, as amended upto date.
b. CPWD general specifications for electrical work Part-II external – 2023, as amended upto date.
c. Commercial and additional conditions for this work.
d. The Indian electricity Act, 2003 as amended upto date.
e. Indian electricity rules 1956 amended upto date.

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

**2. Location of work ► B.P. Township, Kolkata.**

**3. Rates:**

The rates quoted by the tenderer, shall be firm and inclusive of all taxes (Including works contract tax, labour welfare cess) GST , Octroi, duties and levies and all charges for packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site i/c temporary constructional storage, risks, over head

**4. 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 use full and necessary for eff icient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

**5. Storage and Custody of Materials:**

The agency has to make his own arrangement for storage, watch and ward of the stores. Their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

**6. 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.

**7. Completion period:**

The completion period indicated in the tender documents is for the entire work of supplying, installation, testing, commissioning and handing over of the entire installation to the satisfactory of the Engineer-in-Charge.

**8. Performance Guarantee:**

The tender shall guarantee among other things, the following visa-a-vis specifications.

a. Quality, strength and performance of the materials used.
b. Satisfactory operation during the maintenance period.

**9. Defect Liability Period:**

a. The entire installation in general shall be guaranteed for a period of 12 months from the date of completion. Any defective materials and equipment shall be replaced free of cost at the direction of the Engineer-in-Charge.

b. All the LED bulbs/ LED Fittings shall be Guaranteed for a period of 5 years from the date of completion of work and handing over. A letter from the manufacturer of the LED luminaries regarding the back to back arrangement for performance of this guarantee clause shall be submitted at the time of supply of LED fittings.

bi) **50% of the performance guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.**

bii) **50% of the Performance Guarantee shall be retained as Security Deposit.**

biii) **50% of the Performance Guarantee retained as Security Deposit plus 2.5% Security Deposit already deducted from each running bill (Total 2.5 + 2.5 =5%) shall be refunded year wise proportionately.**

**10. Power Supply:**

No power supply for the purpose of carrying out the work, except for testing and commissioning, shall be provided by the department.

**10. Data and Programme to be furnished by the tenderers:**

The Contractor shall prepare the programme chart for the execution of the work showing clearly all activities from the start of work to the completion required for the completion of the work within the stipulated period and submit the

same to the Engineer-in-Charge within fifteen days after the issue of letter for commencement of the work. The contractor shall also submit monthly programme and progress report and update / reschedule the same every month. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

**11. Extent of work:**

**11.1** 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 requirement by the department.

**11.2** Minor building works necessary like making of opening in walls or in floors and restoring to their original condition, finish and necessary grouting etc as required to be undertaken.

**12 Compliance with Regulations and Indian Standards:**

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

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

**13 Indemnity:**

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

**14 Order of Preference:**

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

**15 Verification of Correctness of Material at Destination:**

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

**16 Order of Preference:**

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

b. Commercial and additional conditions for this work.
c. General conditions of contract for CPWD works.
d. Drawings
e. CPWD General Specifications.
f. Indian standard specifications of B.I.S. or any other International code in case is not available.

***A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site***

17. The main contractor shall also enter into a 'Memorandum of understanding' with the approved associated contractor on Non-Judicial Stamp Paper as per the enclosed proforma and submit this 'MOU' duly completed (Duly Signed by him and the associated Contractor) before commencement of work.
18. Executive Engineer (Elect.) shall be the Engineer-in-Charge as far as electrical works are concerned. Separate tender form for electrical component is appended with this tender. It will be obligatory on part of the main contractor to sign the tender documents for all the components.
19. The main agency shall be responsible for all acts of omissions and submission of the electrical contractor or sub-contractor engaged by him, even with approved of department.
20. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.
21. The contractor has to make his own arrangements for stores and watch and ward and no extra claim for this will be entertained.
22. Running payment for electrical / mechanical components shall be made by the EE (E) directly to the main contractor. The main contractor shall make the payment to associated contractor within 15 Days of receipt of each running account payment.
23. **Payments Terms: [No ADVANCE payment will be made against supply of items]**
    For LED Fittings Part Payment/Final payment will be made on submission of Guarantee Certificate for 5 (five) years from Authorised signatory and
    For other items, the part rates will be decided by the Engineer-in-Charge of the work and shall be binding on the contractor.
24. The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down program.
25. The main contractor and / or his associated electrical contractor or his representative is bound to sign the site order books as and when required by the Engineer-in-charge and will comply with the remarks therein.
26. The contractor shall make his own arrangement at his own cost for electrical / general tools and plants required for the work.
27. The connections, interconnections, earthing and loop earthing shall be done by the contractor whenever required to be done for energisation of the installation and nothing extra shall be paid on this account.
28. The contractor must be able to work on concrete slabs / walls as and when required and in complete coordination with the civil works. Cutting of chases in the plastered wall shall in no case be allowed. The contractor shall fix conduits and boxes in the walls soon after the brick work is completed and finish the case to rough surface with proper cement sand mixture. Only in exceptional cases e.g. where cutting of plastered surface con not be avoided it will be contractor's responsibility to ensure that plastering is done to match the original finish at no extra cost.
29. The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.
30. The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from Engineer-in-Charge.
31. Some light points in lobby / corridors / stair case / lift shaft etc are group controlled which will be measured as per specifications.
32. The rupturing capacity of the MCB's shall be 10KA. The MCB's shall have ISI mark. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation and after obtaining approval from the Engineer-in-Charge.
33. All the MCCB's shall be rated for Ics=Icu
34. The copper wires to be used on this work shall be FRLS type and ISI marked.
35. The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removes for terminating the conduit pipes with PVC glands / check nuts.
    Make of MCB / MCCB shall be the same as the make of MCB DB.
    All the switch boxes, MCB DBs are to be covered with plastic sheet / petroleum gelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster / splashes of the paint. Cement plaster / paint are

to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.

All pin 15 amp and 6 pin 15/16 amps power sockets, fan regulator shall be of 2/3 module type.

36. The electrical works shall be carried out by the contractor, side by side with the progress of the civil works.

**37** The contractor shall on demand by the Engineer-in-charge, furnish the proof to the satisfaction of Engineer-in-charge regarding purchases of wires, modular switches & accessories, MCB's MCB DB, fittings, accessories and other items, from the manufacturer's authorization outlets.

**38** All PVC conduits accessories shall be of the same make as conduits. The conduits shall be terminated at switch boxes / metallic junction boxes with suitable PVC glands / check nuts.

**39** Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carries out to match the original finish and to the entire satisfaction of the Engineer-in-charge.

**40.** All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB's No payment for these wires shall be made. However, wires within the cubical panel will be measured and paid under relevant item of work. All the circuit/sub main wiring are to be suitably numbered with stickers/maker pen at LT panel, MCB DB's switch boards (ON backside of cover plate) for ease of maintenance. Nothing shall be paid extra on this account.

**41.** The contractor shall submit the completion plan separately in triplicate on blue print with one set on tracing "Cloth" as per clause-8 of the contract within 30days of the completion of work. In case, the contractor fails to submit the plan, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs. 25, 000.00.

**42.** To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc, where wiring is not done along with EI works, fish wire shall be invariably drawn.

**43.** The connection between incoming switch / isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.

**44.** Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.

**45.** All MS junction box cover should be of phenolic laminated / good quality plastic sheet of thickness not less than 3 mm and for which nothing extra shall be paid on the account.

**46.** All sub-main/power/light wiring shall be terminated in the main board as well as in the switch boards/socket outlets with suitable copper lugs / thimbles for which nothing extra shall be paid on this account.

**47.** All hardware items such as screw, thimbles, GI wire 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.

**48.** All hardware items such as nuts / bolts / screws / washers etc to be used in work shall be zinc / cadmium plate iron.

**49.** 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.

**50.** While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the Engineer-in-Charge.

**51.** Materials to be used in work are to be **ISI marked**. The make of the materials has been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer-in-Charge / his representative before use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the materials which, in his opinion, is not acceptable.

**52.** Where switches / sockets / regulator / telephone / TV / internet outlets are to be provided the same shall be of only one make.

**53.** While laying conduits for fire alarm system, sufficient junction outlets are to be provided as per the direction of the Engineer-in-charge for detectors as reqd.

**54.** Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought up to the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same.

**55.** Rate Rationalization shall be applicable in case the same item appears more than once in the schedule of work under the same sub-head or among the different subhead of works. Accordingly, the lowest rate quoted for that item among all the sub-heads shall be considered for all similar items for evaluation of tender and making payment.

**56.** All statutory deductions like GST, labour welfare cess etc. shall be made from the bills.

**57.**

**Specification of Modular Switches and socket (Ref: CPWD Specification Internal 2023)**

The modular switch shall be as per following/ have features mentioned below: -

• Suitable for 240V, AC, with normal gap constructions, Flush type, Screw type terminal, IP20
• Current carrying plastic parts of Nylon (PA6) with glass fibres up to 16A
• Non-Flammable insulating parts & very high Insulating resistance after Humidity test.
• Marked with IS 3854:1997 • Snap fit with Modular Plates very easy to install
• Arrow marking for correct orientation with plate. • Double rocker mechanism to prevent visible spark.
• Bimetal Silver contact tips for less spark & longer life.
• Fire retardant and UV stabilized.

The modular sockets shall be as per following/ have features mentioned below:-

• 240V, AC, Flush type, Screw type terminal, Shuttered. • Polycarbonate material thickness ~1.5 mm to 2.5 mm
• Non-Flammable insulating parts & very high Insulating resistance after Humidity test.
• 6A, 6/16A Socket market with ISI, as per IS1293:2019
• Snap fit with Modular Plates easy to install
• Brass current carrying parts. • Fire retardant and UV stabilized.

**ADDITIONAL CONDITIONS-2 OF CONTRACT FOR THE WORK**

**General Clauses:**

**1.** The work shall be carried out as per direction and to the entire satisfaction of the Engineer-in-charge and as per relevant CPWD General Specifications for Electrical Works and IE Rules 1956 as amended up to date and other relevant act, rules and local byelaws as applicable

**2.** ***Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).***

**3.** The Agencies are requested to visit the site before quoting the rates.

**4.** No T & P shall be issued by the department. The contractor shall arrange for all tools, plants and instruments required for execution of work.

**5.** Providing Services for attending Day to day Operation of IEI & Fans ETC. as listed by attending complaint & overall look after.

**6.** **The staff employed shall have the following experience and qualification for Day-to-day operation & Maintenance**

a) The Skilled Person should have of required category Electrical License / Electrical workman permit / workman's competency certificate / electrical workman's license / lineman license / practically work experienced certificate /

Certificate from ITI / CTI or similar reputed institution in the appropriate trade.

~~**for Operation of LIFT**~~

a) ~~Lift Operator (Skilled Labour) should have ***Lift Operation License*** .~~

b) In case the staff is found unsuitable by the Engineer-in-charge he should be immediately changed failing which no payment will be made and / or recovery at the rate to be decided by the E-in-C would be effected. The decision of the engineer-in charge about suitability and / or acceptance of the person as operator as well as regarding type of experience certificate and the trade certificate to be acceptable to consider the person / operator as skill, shall be final and binding on the part of the contractor.

**7.** The contractor shall have to maintain attendance through biometric machine of his staff engaged in the work, log book for Day to Day maintenance of the installations and other statutory registers as per contract clauses which will be verified from time to time by the Junior Engineer (E) of the department in charge of the work or his superior officials or other authorized person (s) of the department. The agency will supply necessary biometric machine for this purpose for which nothing extra shall be paid.

7.1 **Duties:**

**Attending all the faults related to EI works of the building, street light, sub-station, operation of all types of pumps i/c fire pumps, DG sets etc.**

**8.** Relevant labour laws shall be complied with by the contractor during execution of work and also strictly in compliance with the DGW order

**9.** The rates for all items of work shall, unless clearly specified otherwise, include cost of all labours, materials and other inputs involved in the execution of the item and inclusive of all local taxes and duties of Central and State Government as in force from time to time

**10.** The contractor shall ensure that the workers as engaged for the work shall be covered under the benefits of ESI Scheme, EPF etc.

**11.** as per Govt. Rules and Regulations. While executing the work the successful tenderer shall have all registration as The agency shall have to pay to the workers with in 7th day of the every month and comply with all the provisions of the clauses mentioned in the agreement in this regard. This has to be treated as mandatory.

**12.** The agency has to follow all labour laws of the country in force. If any labour claim is received regarding the work, it will be borne by the agency as no labour complain will be accepted by the department.

**13.** Department shall reimburse EPF & ESI (agency contribution only) on production of proof on payment against the specific contract labourer. It is additionally being confirmed that the sole liabilities of the above payments shall rest on the contractor/agency.

**14.** The agency should provide a record as wage register, complain register etc. available at site from which the deployment of workers and their presence can be verified by the Engineer-in-charge or his authorized representatives.

**15.** In case of emergency beyond duty hours, if any fault occurs, the agency shall have to attend / rectify the same for which no additional payment will be made by the department.

**16.** Any damaged to the equipment's and structure due to negligence shall have to be got repaired by the agency at his cost. The decision of the Engineer -in-charge is final and binding in this regard.

**17.** The firms must have to maintain one First Aid Kit Box with require medicine etc. which is to be verified by the Engineer-in charge or his authorise representatives in regular basis failing which penal recovery @ Rs 10.00 per person per month will be

made from bills. The agency shall provide all necessary normal tools and plants i/c ladder, hand gloves and safety devices in each and every site.

**18.** No advance payment will be made. However payment will be made at convenient intervals for the value of work done.

**19.** After the work is awarded the contractor would be required to furnish the name, Father's name, qualifications, local address of the staff and antic of the staff proposed to be employed by him for the job.

**20.** The department (CPWD) shall not have any responsibility or liability in case of any accidental consequences to the personnel of the contractor at work site or to the general public at the work site, The responsibilities and liabilities for such events shall be borne by the contractor.

**21.** The agency shall provide the following mandatory documents to the workmen as applicable. a) ESIC Smart Card
b) Identity card with relevant information NAME, Address, Agency Name, ID Card No, Blood Group, Date of Issue and validity.
c) Wage Slip on monthly basis indicating all deductions thereof.

**22.** After completion of work the agency shall remove the men, T&Ps and materials provided by them if they do not happen to be the lowest in the next successive year. No claim for continuance of the same people / workmen in the work beyond the contract period will be entertained.

**23.** In case of any damage to any equipment such as meter, indicating lamp, SDF etc. on account of negligence /fault of the contractor staff, the same shall have to be made good at their risk and cost. Failure to comply with this clause shall attract recovery from contractor bill.

**24.** The work or any part of the work may be cancelled / withdrawn if the performance of maintenance is not satisfactory or otherwise by giving an advance information of one week only. In this regard the decision of the Engineer-in-charge will be final and no claim whatsoever on this account will be entertained.

**25.** The payment to labourers should be made at the rates declared by the Deputy Labour Welfare Commissioner (Central), Jur-VII, Kolkata as per the provision of the minimum wages act from time to time. In the case of a statutory increase of minimum wage during the currency of the contract, the difference between the increased wage and the wage at the time of entering into the contract will be reimbursed to the firm on the production of proof of payment as per the **relevant clause i.e., 10C** of the agreement.

**26.** The work or any part of the work may be cancelled / withdrawn if the performance of maintenance is not satisfactory or otherwise by giving an advance information of one week only. In this regard the decision of the Engineer-in-charge will be final and no claim whatsoever on this account will be entertained.

**27.** The engineer-in-charge may close the contract at any time before the completion of the stipulated period of the contract without assigning any reason thereto and the contractor shall not have any financial or other compensatory claim for the same. However, payment for the work done as per agreement shall be made proportionately, if otherwise done as per contract and to the satisfaction of the department.

**28.** Some restrictions may be imposed by the security staff etc. on the working and the movement of labour, materials etc. The contractor shall remain bound to follow all such restriction / instructions and nothing extra shall be payable on this account.

**29.** Unless otherwise provided in the schedule of quantities of the work the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

**30.** The maintenance activities should be carried out, only by personnel competent for the respective type of activities. Only genuine spare parts should be used in replacement of components.

**31.** All test registers and material at site register shall be maintained by the Contractor which will be reviewed by the Officers of CPWD at regular intervals. These registers shall be issued to the contractor by the Engineer-in-Charge. Contractor shall be responsible for safe custody of all the test registers

**32.** Log books are to record the reading such as current, voltage, operating periods etc. Maintenance register should indicate actual compliance to the schedule item wise. Major repairs or replacement should be recorded in the History Book.

**33.** The agency has to be vigilant and attend any break down in the system immediately under intimation to the department.

**34.** The work shall be carried out as per CPWD specification and the direction of Engineer-in-charge.

**35.** The contract may be terminated at any time without assigning any reason for the interest of Govt. works

**36.** Penal recovery will be made on double the pro-rata basis in case of failure to provide the services. The decision of Engineer-in charge is final and binding in this regard.

**37.** The rate quoted should be inclusive of all taxes and duties.

**38.** The firms has to maintain one First Aid Kit Box with require medicine etc. which is to the verify by the Engineer-in-charge or his authorize representatives in regular basis failing which penal recovery will be made from bill.

**39.** **No advance payment will be made. However payment will be made at convenient interval for the value of work done**

**40.** The agency should take all precautionary measures, if any accident occurs, the department will not take any responsibility.

**41.** The ESI and EPF contribution on the part of employer in respect of this contract shall be reimbursed by the contractor. This contribution on the part of the employer paid by the contractor shall be reimbursed by the Engineer- In-charge to the contractor on actual basis.

**42.** All wages shall be paid Through Bank or **ECS or Online Transfer** to labour bank account.

**43.** It shall be the duty of agency to ensure the disbursement of wages through bank account of labour.

**44.** Labour reports duly supported by proof of **biometric attendance** or any other means as approved by Engineer-in-charge in case of any Govt. order or inability to capture / produce biometric attendance data shall be submitted along with the bills. It shall be the duty of agency to provide and maintain Biometric Attendance System within One month of stipulated date of start and no payment will be made in this account.

**45.** Following tools, plants and instruments must be present in site otherwise recovery at the rate to be decided by the E in C would be affected. **a. Screw Driver, b. Tester, c. Testing lamp, d. Multimeter, e. Earth Tester, f. Magger, g. Tung Tester, h. Pillar, i. Slide Range (various size) j. First Aid Box etc.**

**46.** **The Contractor has to make his own arrangement for the Tools and Plant in Working Condition for use by staff T&P shall always be available at every site of work otherwise recovery at the rate of Rs. 1,000/- per month for number of days it is not found at site of work.**

**ANNEXURE-A**

| Sl. No. | Particulars Details | Details | |
|---|---|---|---|
| 1. | **Name of Work** | As mentioned in the Schedule of Work | |
| 2. | **Sub-Division** | Kolkata Cent Elect Sub-Divn-II | |
| 3. | **Duty Hours** | 8 hours | |
| 4. | **Scope of the work of the contractor** | As per additional condition as attached. | |
| 5. | Place of work | **B.P. Township, Kolkata.** | |
| 6. | **At present labour rate is as per Govt. of India O/O Chief Labour Commissioner (C) vide letter No.** ***1/6(3)/2025-LS-II, Dated :28-03-2025*** | Highly Skilled ► | ₹ 1111.00 |
| | | Skilled ► | ₹ 1024.00 |
| | | Semi-Skilled ► | ₹ 933.00 |
| | | Un-Skilled ► | ₹ 840.00 |
| 7. | Statutory Deduction from the bill | ***Labour welfare cess, Income Tax, GST as per prevailing Govt. Rule*** | |
| 8. | In the event of non availability of required staff, recovery at following rate shall be made. | ***Skilled ₹ 2,000.00 / per day***<br>***Semi-Skilled ₹ 1,800.00 / per day***<br>***Un-skilled ₹ 1,600.00 / per day*** | |

SAMPLE CONSENT LETTER OF CONTRACTOR FOR e-MB

To
The Executive Engineer(E)
KCED-II/CPWD
Nizam Palace/Kolkata-20

Subject: Consent for online recording of measurement and making payment on the basis of online measurements submitted through CPWD ERP system.

Name of work:

Agreement No.

Sir,

With reference to the above cited work and agreement, I hereby submit my consent for recording of online measurement on CPWD ERP system and making payment of work done on the basis of online submission of measurements on CPWD ERP system.

Yours faithfully,

Dated:
Place:

(Signature of Contractor/authorized representative)
Name & Seal

**FORM - 'A'**

## UNDERTAKING REGARDING ASSOCIATION WITH THE AGENCIES HAVING EXPERIENCE OF SPECIALISED WORK

**To**
**The Executive Engineer,**

Subject:

Name of work:

Agreement No.

***Sir,***
***Having examined the details given in the Bid Documents for the above said work. I / We hereby submit the following:***

***"I / We undertake that I/We will associate contractors having experience of execution of each specialised works mentioned in bid document."***

***Signature of the Bidder with seal***

**FORM - 'B'**

## CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED COMPONENT OF WORK

Name of work :

Agreement No.

*I / We hereby give my consent to associate with M/s ……, for executing the minor component of work of …….. (Mention category).*

*I / We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer –in-Charge for the corresponding specialized 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 maintenance / warranty period.*

*Also, I / We will employ full time technically qualified Engineer / supervisor for the minor component of the work as required for the work. I / We will attend inspection of officers of the department as and when required.*

**Date:_____ / _____ / 20 _____**

| | |
|---|---|
| ***(Signature with date of Major Component Contractor)*** | ***(Signature with date of Major Component Contractor)*** |
| ***Address:*** | ***Address:*** |

***Witness with address***
***(From Specialized component contractor)***

***Witness with address***
***(From Major component contractor))***

**FORM - 'C'**

## AFFIDAVIT OF MEMORANDUM OF UNDERSTANDING (MoU)
## (to be submitted for each and every E & M Component)

1.M/s. _____(Name of the firm with full address)_____ Enlistment Status : _____ .
Valid Upto : _____ . (Henceforth called the main Contractor)

2.M/s. _____(Name of the firm with full address)_____ Enlistment Status : _____ .
Valid Upto : _____ . (Henceforth called the Associated Contractor)

For the execution of E & M Work : Name of work :

Agreement No.

*We state that M.O.U 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 the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties can be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer In charge. Any of us may appeal against the mediation to the Chief Engineer cum ED, CPWD, Bangalore. His decision shall be final and binding on both of us. We have agreed as under :*

*1. The Associated Contractor will execute all E & M works in the wholesome manner as per terms and conditions of the agreement.*

*2. The Associated Contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.*

*3. All the machinery and equipment, tools and tackles required for execution of the E & M works, as per agreement, shall be the responsibility of the Associated Contractor.*

*4. The site staff required for the E & M work shall be arranged by the Associated Contractor as per terms and conditions of the agreement.*

*5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor and by Associated Contractor himself.*

*6. All the correspondence regarding execution of the E & M work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.n the wholesome manner as per terms and conditions of the agreement.*

***SIGNATURE OF MAIN CONTRACTOR :***

***Date:_____ / _____ / 20 _____ Place;***

1. Witness with address :

a.

b.

c.

(From major component contractor side)

***SIGNATURE OF ASSOCIATED CONTRACTOR :***

***Date:_____ / _____ / 20 _____ Place:***

2. Witness with address :

a.

b.

c.

(From minor component contractor side)

***NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth ₹100.***

**FORM-F**

**DECLARATION ABOUT SITE INSPECTION**

To,

The Executive Engineer (Elect.),

Kolkata Central Electrical Division-II,

CPWD, Nizam Palace,

Kolkata-20.

**Name of work: Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop solar PV Power Generation System at Soil & Land Use Survey of India, Block-E, B.P. Township, Kolkata).**

Dear Sir,

It is hereby declared that as per CPWD–6 FOR e-BIDDING, **Para 12, Page 10 ,** I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable),the forms and nature of the site/ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

I /We bidder shall be responsible for arranging and maintaining at 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 me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Signature of Bidder (s) or an authorized Officer

of the firm with stamp & seal

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of CPWD

## INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... on this ..... day of..... 20…....

BETWEEN

President of India represented through Executive Engineer (E), Kolkata - II, CPWD, Nizam Palace, Kolkata - 20 (Hereinafter referred as the Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

……(NameandAddressoftheIndividual/firm/Company)through.....

.....(Hereinafter referred to as the (Details of duly authorized signatory)

"Bidder/Contractor" and which expression shall unless repugnant to the meaning or context here of include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract.

Here in after referred to as the "Contract".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s). AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same

information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted Electronically.

d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

Contractor shall ensure, such as to not put his reliability or credibility in question, the Principal/Owner after giving 14 day notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/ Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-vendors.

2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/ Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded. If any claim ismade/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/ determined by the Competent Authority, CPWD.

Article 7- Other Provisions

1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.

2) Changes and supplements need to be made in writing. Side agreements have not been made.

3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.

5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact. IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

..... (For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES:.....

1. ..... (signature, name and address)

2. ..... (signature, name and address)

Place:

Dated :

## LIST OF ACCEPTABLE MAKES

| SL | Item | Acceptable Make |
|---|---|---|
| 1. | LED Fittings | Crompton/Wipro / Philips /Havells/ BAJAJ |
| 2. | DWC HDPE pipe ISI marked | Astral/Supreme/ALOM/ Konstruct/JAIN / KAISTA / RELIANCE/ TIRUPATI PLASTOMATICS (Gemini) (ISI Marked) |
| 3. | Cassette / Split TYPE AC SYSTEM | Mitsubishi/Daikin/Carrier/LG/ O-General/ VOLTAS/BOSCH |
| 4. | SMPS | CP-PLUS / HIKVISION / DIGIBYTE |
| 5. | Camera (STQC CERTIFIED) | Honeywell/Bosch/Axis/Tyco/Pelco |
| 6. | Air – Conditioning System (VRV / VRF) | O-GENERAL / MITSUBISHI HEAVY/ L.G./ HITACHI/ DAIKIN/Carrier |
| 7. | Copper Refrigerant tube | RAJCO / MANDEV / MEXFLOW / TOTALINE |
| 8. | Insulation tube | ARMAFLEX / ARMACELL /ELASTOMERIC / K-FLEX /AERO FLEX |
| 9. | Supply & Return Air Grill /Ball Jet Diffuser | SYSTEM AIR / CARYAIRE /DYNACRAFT |
| 10. | UPVC Pipe | SUPREME / ASTRAL / FINOLEX |
| 11. | Galvanized Sheet Steel | TATA / JINDAL / SAIL |
| 12. | Cable Tray | RM CON / INDMARK FORMTECH / UCIC / KANADE ANAND / VATCO |
| 13. | PVC insulated copper wire (FRLS Type with ISI marked) | POLYCAB / FINOLEX / HAVELLS / KEI |
| 14. | Modular Switches & Sockets, Fan Regulator, RJ-45(cat-6) / RJ-11 outlets including modular boxes & plates | LEGRAND / SCHNEIDER / Honeywell/ HAVELLS / CABTREE / C & S / ABB |
| 15. | GI Pipe (ISI Marked) | Tata/ Jindal / Sail/ NEZONE |
| 16. | MS Pipe (ISI Marked) | Tata/ Jindal / Sail/ NEZONE |
| 17. | Power Cables/Submersible Cable | RR Kabel/ Havells/KEI/Polycab/ FORT GLOSTER/ GLOSTER |
| 18. | FRLS Copper Conductor / CAT6 cable/ RG-6 grade TV cable | RR Kabel/ Havells/KEI/Polycab / FORT GLOSTER/ GLOSTER |
| 19. | Modular Switch Socket and accessories | Legrand/ABB/Crabtree/Wipro/Anchor-Panasonic/Honeywell |
| 20. | MCCBs / MCB DBs / MCBs / RCCBs / Ind Sockets/SDF | Legrand / Hager / LK( Earstwhile L&T) / Havells Euro-II /ABB |
| 21. | PVC Conduits (Medium Class, ISI marked) | BEC / Precision / AKG/Konstruct/ Astral |
| 22. | Bi-metallic / Copper / Aluminium Cable Lug | COMET / DOWELL'S (BILLER INDIA PVT. LTD.) / HAX BRASS |
| 23. | Polycarbonate/SMC cable Junction box | HENSEL / CLIPSAL / GRASP/SINTEX |
| 24. | LT Jointing Kit / Termination | RAYCHEM / MSEAL |
| 25. | Cable Glands Double Compression with | COMET / COSMOS |
| 26. | Meters / Electrical Measuring Instruments | AE / L&T / CONZERV / TRINITY / RISHABH |
| 27. | Multifunction meter | CONZERV / SECURE / TRINITY / L&T / AE |
| 28. | Indication lamps / push buttons / selector switch | L&T / SIEMENS / SCHNEIDER / AE / KAYCEE |
| 29. | CTs ( LT) | KAPPA / AE / L&T / PRAGATI |
| 30. | PVC Trunking | Honeywell/Legrand/OBO |
| 31. | MS Pole | Nezone /Utkarsh/Bajaj/Bengal Pole |
| 32. | Lan Cable | Polycab /KEI/Legrand/Molex |
| 33. | Exhaust fan / Wall fan | Bajaj/Havells/Orient/Crompton/Usha |
| 34. | BLDC Ceiling Fan | Atomberg /Crompton/Usha/Havells/Bajaj |

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|---|---|---|
| 35. | MS Conduit (ISI) Marked | BEC/NIC/AKG/RMCON |
| 36. | UPVC Pipe | Supreme/Astral/Ashirwad/Plasto |
| 37. | Piano type switch/socket/regulator | Anchor-Panasonic/ Preeti/Kona |
| 38. | PORTABLE FIRE EXTINGUISHER | NEWAGE/ MINIMAX/ CEASEFIRE/OMEX/ SAFEGUARD/ GTECH |
| 39. | FIRST AID HOSE REEL DRUM | NEWAGE/ MINIMAX/ CEASEFIRE/OMEX/ SAFEGUARD/ GTECH |
| 40. | RRL HOSE PIPE (ISI MARKED) | NEWAGE/ MINIMAX/ CEASEFIRE/OMEX/ SAFEGUARD/ GTECH |
| 41. | HOSE REEL (ISI MARKED) | NEWAGE/ MINIMAX/ CEASEFIRE/OMEX/ SAFEGUARD/ GTECH |
| 42. | Red oxide zinc chromate primer / Synthetic enamel paint | Asian Paints / Berger Paints / JSW / INDIGO |
| 43. | FIRE FIGHTING EQUIPMENTS SUCH AS SINGLE HEADED/ DOUBLE HEADED HYDRANT VALVES, FITTINGS, NOZZLES, FIRE BRIGADE INLET/ OUTLET CONNECTION, SIAMESE CONNECTIONS, LANDING VALVE, BRANCH PIPE etc. | NEWAGE/ MINIMAX/ CEASEFIRE/OMEX/ SAFEGUARD/ GTECH |
| 44. | UIDAI Certified Biometric Authentication Device (Fingerprint L1 Registered) | PRECISION / REALTIME / MANTRA |
| 45. | Lift | KONE/JOHNSON/OTIS/SCHINDLER/MITSUBISHI |
| 46. | Starter | BCH/LK/KILOSKER/HAVELLS |
| 47. | IP CCTV / ANALOG CCTV | BOSCH / PELCO / HONEYWELL / AXIS / TYCO |
| 48. | Network Video Recorder / Software (NVR / NVS) and Network Attached Storage (NAS) System /DVR | AS PER OEM OF CAMERA |
| 49. | SATA Surveillance HDD | WD/SEGATE/ TOSHIBA/ TRANSCEND |
| 50. | UPS | APC/ MICROTECH/ VERTIV/ LUMINOUS/Numeric |
| 51. | Core Switch/Active Switch/Network Switch | NETGEAR/D-LINK/TP-LINK/ ALLIED TELESIS |
| 52. | Network System (LAN system)/ Complete Active/Passive Network including all accessories etc. | NETGEAR/D-LINK/TP-LINK/ ALLIED TELESIS |
| 53. | Data Jack Panel /Patch Panel | EXTREME/BELDEN/CISCO/JUNIPER/BROCADE/NESUS |
| 54. | Network Rack | APW PRESIDENT/ LEGRAND/ NETRACK/ VALRACK/COMRACK |
| 55. | Patch Cord/Jack | BELDEN/ AMP/ LEGRAND/ MOLEX/ COMMSCOPE |
| 56. | Panel | Any CPRI approved |
| 57. | Octagonal Hot dip Galvanized poles | Utkarsh/Bajaj/J.K. Poles/Aster/Havells |
| 58. | Street Light Panel | Havells/C&S/HPL/Legrand |
| 59. | Solar Photovoltaic Module | TATA POWER / KIRLOSKAR SOLAR/ WAREE/ VIKRAM SOLAR / HAVELLS |
| 60. | PCU (Inverter) (shall be MNRE Approved) | KIRLOSKAR/WAREE/LUMINIOUS/SUNGROW |
| 61. | AC/DC Distribution Units | SIEMENS/ABB/SCHNEIDER ELECTRIC/LEGRAND |
| 62. | Data Logging system with remote monitoring / Junction Box | As per OEM |
| 63. | SMC/Polycarbonate Waterproof Loop Box | SINTEX / HENSEL /Grasp |
| 64. | Any other item | As decided by Engineer-in-charge |

## Schedule of Work

**Name of Work :-** Installation of Rooftop Solar Photovoltaic Power Generation System at Soil & Land Use Survey Of India, Department of Agriculture & Farmers Welfare, Block-E, B.P. Township, Kolkata-700094 during 2026-27. (SH: Installation of 20 kWp Rooftop Solar PV Power Generation System at Soil & Land Use Survey Of India, Block-E, B.P. Township, Kolkata).

| Sl.No. | Description of Item | Qty. | Rate | Unit | Amount | Remarks |
|---|---|---|---|---|---|---|
| | **SH-I (Solar Photovoltaic Power Generation System)** | | | | | **DSR-25** |
| 1 | Supply, 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.<br>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 degree Celsius. 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 Deg C and +85 Deg 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 issuing IEC certificate. | 20 | 54280.00 | Per kWp | 1085600 | 17.10 |

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| | b) 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 degree 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 & 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, Lightening, 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 & cumulative AC output power, Daily DC energy produced and other parameters applicable standard. Communication interface RS 485/ RS 232.<br>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.<br>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.<br>f) Lightning ,surge voltage protection, earthing protection and grid islanding.<br>g) Cables: Connections & Interconnections by required size IR/UV protected XLPE insulated copper conductor 1.1 kV grade armoured power and control cables(ISI Marked) along with supplying & fixing of necessary channel/conduit, GI cable trays, supports, lugs, thimble | | | | | |

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|---|---|---|---|---|---|---|
| | and other accessories etc. as required. h) DC Distribution Board And AC Distribution Panel Board: IP65, free standing, metal cladded, having copper bus bar, having required protection and control gears, connection interconnection, etc. as required. | | | | | |
| | | | | **Total** | **1085600.00** | |

*Assistant Engineer[E][P}*
*Kolkata-II, CPWD, Kolkata-20*

*Executive Engineer[E]*
*Kolkata-II, CPWD, Kolkata-20*