

NITINDEX

Name of work:- **Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.**

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No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

**E- TENDER**

NIT No.	:	<b>11/NIT/Engg/SHQ-AZL/Elect/2021-22</b>
Name of work	:	<u>Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.</u>
Estimated Cost	:	Rs.9,83,647=00
Earnest Money	:	Rs.19,673=00
Security Deposit	:	2.5% of Tendered Amount
Performance Guarantee	:	3% of tendered value
Time Allowed	:	45 (Forty-Five) Days

Certified that this NIT contains **37 pages**

No. of Corrections- NIL  
No. of Deletions – NIL  
No. of Insertions – NIL

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**(PRESS NOTICE TO BE PUBLISHED)****Notice Inviting e-Tenders**

The Executive Engineer (Elect), Ftr HQ BSF M&C, invites, on behalf of President of India, online **item** rate bids from approved and eligible contractors of CPWD and those of appropriate list of MES, DoT, Railway, state PWD, Solar Manufacturer and OEM for following work : -

**NIT No.** : **11/NIT/Engg/SHQ-AZL/Elect/2021-22**  
**Name of Work** : **Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.**  
**Estimated Cost** : **Rs.9,83,647=00**  
**Earnest Money** : **Rs.19,673=00**  
**Period of Completion** : **45 (Forty-Five) Days**  
**Last time and date of submission of bid** : **Up to \*\*\*\*\* hrs on \*\*\*\*\***

The bid forms and other details can be seen and obtained from the website [www.bsf.nic.in](http://www.bsf.nic.in) and [eprocure.gov.in](http://eprocure.gov.in)

Executive Engineer (Elect)  
Ftr HQ BSF M&C

No. of Corrections- NIL  
No. of Deletions – NIL  
No. of Insertions – NIL

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**(PRESS NOTICE TO BE POSTED ON WEB SITE)****Notice Inviting e –Tenders**

The Executive Engineer (Elect), Ftr HQ BSF M&C on behalf of President of India invites online **items** rate bids from approved and eligible contractors of CPWD and those of appropriate list of MES, DoT, Railway, state PWD, Solar Manufacturer and OEM for the following work (s):

NIT No.	:	<b>11/NIT/Engg/SHQ-AZL/Elect/2021-22</b>
Name of work	:	Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.
Estimated cost put to tender	:	Rs.9,83,647=00
Earnest Money	:	Rs.19,673=00
Period of Completion	:	45 (Forty-Five) Days
Last date & time of submission of bid	:	<b>Up to ***** hrs on *****</b>
Period during which EMD and other documents shall be submitted	:	Within one week after opening of financial bid by L-1 bidder
Cost of Bid Document shall be submitted to office of DIG BSF Aizawl	:	From ***** ** hrs to ***** upto ***** hrs
Time and date of opening of bid	:	<b>***** hrs on *****</b>

2. Tender document shall be considered valid of only those contractors who will upload the scanned copies of the following documents along with tender.

a) Earnest money should be in the form of Treasury Challan/Demand Draft/Pay order or Banker's Cheque /Deposit at Call Receipt/FDR/Bank Guarantee of any Scheduled Bank issued **in favour of DIG SHQ BSF Aizawl**. Interested bidders who wish to participate in the bid may also deposit EMD through NEFT/RTGS to following A/C No :-**10717889525**, Name of A/C holder :-DIG BSF Aizawl, Govt Fund, IFSC Code:-**SBIN0017399**, Branch Name :-SBI Durtlang, Aizawl, Mizoram, Type of A/C:- Current account. After transferring payment the UTR Generated during

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transaction be scanned and uploaded to the e-tendering website within the period to tender submission. EMD is exempted for MSME listed firms.

- a) Valid Enlistment order / electrical license or Work Experience as per NIT.
- b) Manufacturer/ OEM/Authorization certificate/MNRE Approval certificate of the Contractor, MSME certificate,
- c) PAN Card, Latest ITR and GST Return.
- d) FORM "F" FORMAT FOR INTEGRITY PACT (on Bidder Letter Head) as per format provided in NIT
- e) Signed copy of NIT
- f) Affidavit as per clause 1.2.3 of Form 6.

"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, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in BSF/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 the Earnest money /Performance Guarantee."

3. 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 [www.bsf.nic.in](http://www.bsf.nic.in) and [eprocure.gov.in](http://eprocure.gov.in) free of cost.

No. of Corrections- NIL  
 No. of Deletions – NIL  
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**GOVERNMENT OF INDIA  
BORDER SECURITY FORCE  
NOTICE INVITING e-TENDER**

1. Online **item** rate bids are invited on behalf of President of India from approved and eligible electrical contractors of CPWD and those of appropriate list of MES, DoT, Railway, state PWD, Solar Manufacturer and OEM for the work of

**“Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.”**

The enlistment of the contractors should be valid on the last date of submission of tenders.

In case only the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.

In case both the last date of receipt of application and submission of tenders are extended, the enlistment of contractor should be valid on either of the two date's i.e. original date of submission of tender or on the extended date of submission of tenders.

1.1 The work is estimated to cost **Rs. 9, 83,647=00** this estimate, however, is given merely as a rough guide.

The enlistment of the contractors should be valid on the last date of submission of bids.

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 estimated cost put to bid, should clearly indicate the estimated 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:-

Criteria of eligibility for submission of bid documents

1.2.1 Conditions for CPWD as well as Non-CPWD registered contractors:

**Three similar works each of value not less than 40% or two similar work each of value not less than 60% or one similar work of value not less than 80% of estimated cost (all figures rounded to nearest Convenient figure in last 7 years ending last day of the month previous to the one in which tender are invited.)**

No. of Corrections- NIL

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No. of Insertions – NIL

## 1.2.2 -Nil-

**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 for bidding in BSF 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. (Scanned copy to be uploaded at the time of submission of bid)

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

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (up to date) (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website [www.bsf.nic.in](http://www.bsf.nic.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 **45 Days** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website [www.eprocure.com](http://www.eprocure.com) or [www.bsf.nic.in](http://www.bsf.nic.in) free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. 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 Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of DIG SHQ BSF AIZAWL, Durtlang North, Aizawl, Mizoram) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited in the office of Superintending Engineer inviting bids within the period of bid submission. MSME registered firms are exempted from the payment of EMD as per Guidelines.

No. of Corrections- NIL

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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 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 **Superintending Engineer** and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at \_\_\_\_ **As per Tender Notice**

10. The bid submitted shall become invalid if
- (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 tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee of 3% (Three Percent) of the bid amount within the period specified in Schedule F. In the form of bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank or Fixed Deposit Receipts of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the 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 of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and program chart (Time and Progress) within the period specified in Schedule F. The successful firm will also furnish the original documents which were submitted with the bid.
12. **The description of the work is as follows:**  
Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the

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contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

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 BSF Circle 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). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the BSF or in the Ministry of Home Affairs. 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 Gazette Rank or other Gazette Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of **Ninety days(90) days** from the date of opening of bids in case of single bid system/sixty (60) days from the date of opening of technical bid in case bids are invited on 2 bid envelop system. If any bidders withdraw his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
19. This notice inviting Bid shall form 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, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

No. of Corrections- NIL  
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## 20. for Composite Bids

- 20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 20.1.2 The bid document will include following three components:  
**Part A:-** CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/ modified up to .....
- Part B:-** General / specific conditions, specifications and schedule of quantities applicable to major component of the work.
- Part C:-** Schedule A to F for minor component of the work. Competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.
- 20.1.3 The bidders must associate himself, with agencies as per NIT conditions
- 20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.
- 20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 20.1.8 The main contractor has to associate agencies for specialized components (s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).
- 20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s). The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied

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with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

- 20.1.10 The main contractor has to enter into MoU with agencies contractor(s) associated by him . Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer- in-charge of the discipline of minor component directly to the main contractor.
- 20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.
- 20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

**UNDERTAKING**  
**(Ref of Para – 5 (iv))**

**The physical EMD& other eligibility documents shall be deposited by me/us with the EE calling the bid in case I/We become the lowest bidder within a week of the opening of financial bid otherwise department may reject the bid and also take action to debar me/us from tendering in BSF and Enlistment Department may also take action against me/us to debar me/us from tendering in Department.**

**Signature of bidder**

**CPWD FORM 6 : CORRECTION SLIP No.1**  
Vide DGW/CON/250 dt 29.3.2010

Following para stands added after para1.2.2 :-

Para 1.2.3 :- To become eligible for issue of tender, the tender shall have to furnish an affidavit as under :-

“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, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in CPWD/MES/BSNL/Railway 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 the Earnest Money/Performance Guarantee”.

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No. of Corrections- NIL  
No. of Deletions – NIL  
No. of Insertions – NIL

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AMENDED UPTO CON 248

CPWD- 8

**GOVERNMENT OF INDIA  
BORDER SECURITY FORCE**

STATE : Mizoram CIRCLE : HQ DG BSF New Delhi  
BRANCH : Engg (Elect) DIVISION : Ftr HQ BSF M&C  
ZONE : Eastern Command SUB-DIV : SHQ BSF AIZAWL

**Item Rate Tender & Contract for Works**

(A) Tender for the work of: - **Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.**

(B) (i) To be submitted by \*\*\*\*\* hours on \*\*\*\*\*

(ii) To be opened in presence of tenderers who may be present at \*\*\*\*\* hours on \*\*\*\*\* in the office of **The DIG ,SHQ BSF AIZAWL**

Issued to – N/A

Signature of officer issuing the documents – N/A

Designation– N/A

Date of Issue – N/A

**TENDER**

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

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

We agree to keep the tender open for ninety (90) days from the due date of its opening / ninety days from the date of opening of financial bid in case tenders are invited on 2 envelop system (strike out as the case may be) and not to make any modification in its terms and conditions.

A sum of **Rs. 19,673=00** is hereby forwarded in ~~cash~~/receipt treasury challan /deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank

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guarantee issued by a scheduled bank 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, otherwise the said earnest money shall be retained by him towards security deposit 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.

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:

Signature of Contractor

Postal Address

Witness

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for anon behalf of the President of India for a sum of Rs.....\*(Rupees .....\*

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

- (a)
- (b)
- (c)

For & on behalf of President of India

Signature

Designation .....

Dated:

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

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INTEGRITY PACT

To,

.....\*\*\*\*\*.....,  
.....,  
.....

**Sub: NIT No. 11/NIT/Engg/SHQ-AZL/Elect/2021-22**

**For the work: - “Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.”**

Dear Sir,

It is here by declared that BSF is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity

Agreement on behalf of the BSF

Yours faithfully

DC (Elect)/Executive Engineer

No. of Corrections- NIL  
No. of Deletions – NIL  
No. of Insertions – NIL

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INTEGRITY PACT

To,

DC(Elect)/Executive Engineer,  
Ftr HQ BSF M&C

Submission of Tender for the **“Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl.”**

Dear Sir,

I/We acknowledge that BSF is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by BSF. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, BSF shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

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**SCHEDULES****SCHEDULE 'A'**Schedule of quantities (Enclosed) **Page 37****SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

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

-----NIL-----

**SCHEDULE 'C'****Tools and plants to be hired to the contractor**

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

-----NIL-----

**SCHEDULE 'D'****Extra schedule for specific requirements/document for the work, if any.****SCHEDULE 'E'****Reference to General Conditions of contract.****Name of Work: "Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl."**

No. of Corrections- NIL

No. of Deletions - NIL

No. of Insertions - NIL

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- (i) Estimated cost of work : Rs. **9,83,647=00**
- (ii) Earnest Money : Rs. **19,673=00**
- (iii) Performance Guarantee : **3% of tendered value**
- (iv) Security Deposit : **2.5% of tendered value**

#### SCHEDULE 'F'

#### GENERAL RULES & DIRECTIONS :

Officer inviting tender : **DC (Elect)/ EE(Elect)**

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

#### Definitions:

2(v) Engineer-in-Charge : **DC (Elect)/ EE (Elect)**

2(viii) Accepting Authority : **DC (Elect)/ EE (Elect)**

2(x) Percentage on cost of materials and

Labour to cover all overheads and profits : **15%**

2(xi) Standard Schedule of Rates : **DSR 2018**

2(xii) Department : **BORDER SECURITY FORCE**

9(ii) Standard CPWD Contract Form GCC 2014, CPWD Form 8 modified Corrected up to date

#### Clause 1

(i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance : **15 days**

(ii) Maximum allowable extension beyond the period provided in (i) above written request of the contractor to the Engineer-in-charge with late fee @0.1% per day of performance guarantee amount. : **Upto 15 days**

#### Clause 2

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

Authority for fixing compensation under clause 2  
Clause 2A : EE (Elect),

Whether Clause 2A shall be applicable : No

Clause 5

Number of days from the date of issue of letter  
of acceptance for reckoning date of start : 15 days.

Mile stone(s) as per table given below:-

Table of Mile Stones (s)

S. 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.
1.			
2.			
3.			

Time allowed for execution of work : 45 (Forty-Five) Days

Authority to decide:

(i) Extension of time : SE(Elect)/Comdt(Elect)HQ DG BSF, New Delhi  
(Engineer in Charge or Engineer in Charge of Major Component in case of Composite  
Contracts, as the case may be)

(ii) Rescheduling of mile stones : EE(Elect) Ftr HQ BSF M&C  
(Superintending Engineer in Charge or Superintending Engineer in Charge of Major  
Component in case of Composite Contracts, as the case may be)

Clause 6, 6A

Clause applicable - (6 or 6A) . : 6

Clause 7

Gross work to be done together with net payment /adjustment  
of advances for material collected, if any, since the last such  
payment for being eligible to interim payment : 1/8 of tender amt

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

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**The following amendment in General Condition of Contract for CPWD works 2014 is incorporated:-**

S/N o	Clause No	As per GCC for CPWD works 2014	Amendment made
1.	Last sentence of First Para of Clause-7	In case of delay in payment of intermediate bills after 45 days of submission of bills by the contractor provided the bill submitted by the contractor found to be in order, a simple interest @7.5% per annum shall be paid to the contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis.	Deleted

**Clause 9**

**The following amendment in General Condition of Contract for CPWD works 2014 is incorporated:-**

S/N o	Clause No	As per GCC for CPWD works 2014	Amendment made
1.	Last Para of Clause-9	In case of delay in payment of final bills after prescribed time limit, a simple interest @7.5% per annum shall be paid to the contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis, provided the final bill submitted by the contractor found to be in order.	Deleted

**Clause 10A**

**List of testing equipment to be provided by the contractor at site lab.**

**1. 3 mtr. Measuring tape 2.15 mtr. Measuring tape 3.Vernier Caliper 4.Wire gauze measuring tool 5..... 6.....**

**Clause 10B (ii)**

**Whether Clause 10 B (ii) shall be applicable : No**

**Clause 10C**

**Component of labour expressed as percent of value of work = 25 %**

**Clause 10CA**

	Materials covered under this clause	Nearest Materials(other than cement, reinforcement bars and structural steel) for which All India Wholesale Price Index to be followed	Base price of all the Materials covered under Clause 10 CA
1.	N A		
2.			
3.			
4.			

No. of Corrections- NIL

No. of Deletions - NIL

No. of Insertions - NIL

\* Base price of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT.

**Clause 10CC**

**Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column. - NA**

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

**Component of civil (except materials covered under clause 10CA)/Electrical construction Materials expressed as percent of total value of work. -NA**

**Component of Labour -expressed as percent of total value of work. - NA**

**Component of P.O.L. -expressed as percent of total value of work. - NA**

**Clause 11**

**Specifications to be followed for execution of work : CPWD Specification upto date**

**Clause 12**

**12.2 & 12.3 Deviation Limit beyond which Clauses 12.2 & 12.3 Shall apply for Building work -50%**

**12.5 Deviation Limit beyond which: (i) Except Earth Work Clauses-50% 12.2 & 12.3 shall ply for Foundation work Earth Work**

**Clause 16**

**Competent Authority for deciding reduced rates: EE(Elect)**

**Clause 18**

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

- 1. .... 2. ....
- 3..... 4.....
- 5..... 6. ....

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

## Clause 36 (i)

Sl. No	Minimum Qualification of Technical Representative	Discipline	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
					Figures	Words
01	Diploma Engineer	Elect Engineer	05 years	01	15000/-	Fifteen thousand per month

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Clause 42 \_\_\_\_\_ N/A \_\_\_\_\_

(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates **DSR 2018** printed by C.P.W.D.

(ii) Variations permissible on theoretical quantities:

(a) Cement for works with estimated cost put to tender not more than Rs. 5 lakh. : 3% plus/minus.

For works with estimated cost put to tender more than Rs.5 lakh. : 2% plus/minus.

(b) Bitumen All Works : 2.5% plus & only &

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

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nil on minus side.

(c) **Steel Reinforcement and structural steel sections for each diameter, section and category** : **2% plus/minus**

(d) **All other materials.** : **Nil**

### RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement (OPC)	-	-
	Cement (PPC)	-	-
2.	Steel	-	-

### CPWD FORM 8: CORRECTION SLIP No.1

Vide DGW/CON/250 dt 29.3.2010

**Further, following para stands added on page 4 of GCC 2014& the undertaking on page 2 of form CPWD 7/8(in both the documents, it will be added before last para of the page starting with "I/We hereby declare----- safety of the state".**

"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 /Performance Guarantee."

No. of Corrections- NIL  
No. of Deletions - NIL  
No. of Insertions - NIL

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## **INSTRUCTION FOR ONLINE BID SUBMISSION FOR BIDDERS**

### **34.SUBMISSION OF TENDER**

- 34.1 Online bidding through CPPP e-procurement system. The tender document is available at CPPP e-procurement site i.e., <http://eprocure.gov.in/eprocure/app>. Prospective bidder desirous of participating in this tender may view and download tender document from the above mentioned website.
- 34.2 All documents should be submitted electronically in PDF format.

### **35. INSTRUCTION FOR ONLINE BID SUBMISSION:**

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <http://www.bsf.nic.in> and [eprocure.gov.in](http://eprocure.gov.in)). The bidders are required to submit soft copies of their bids electronically on the CPP Portal at [www.bsf.nic.in](http://www.bsf.nic.in) and [eprocure.gov.in](http://eprocure.gov.in), using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://www.bsf.nic.in> and [eprocure.gov.in](http://eprocure.gov.in)

### **35.1 REGISTRATION**

- 35.1.1 Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-procurement/e-tender portal is a prerequisite for e-tendering.
- 35.1.2 Bidder should do the enrollment in the e-Procurement site using the “[Click here to Enroll](#)” option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide the correct/true information including valid E.mail ID. All the correspondence shall be made directly with the contractors / bidders through E.mail ID provided.
- 35.1.3 Bidder need to login to the site thro’ their user ID/password chosen during enrollment/registration.
- 35.1.4 Then the Digital Signature Certificate ( Class II or Class III Certificates with signing key usage ) issued by SIFY / TCS / nCode / eMudra or any Certifying Authority recognized by CCA India on e-Token / Smart Card, should be registered.
- 35.1.5 The DSC that is registered only should be used by the bidder and should ensure safety of the same.
- 35.1.6 Contractor/Bidder may go through the tenders published on the site and download the required tender documents/schedules for the tenders he/she is interested.
- 35.1.7 After downloading / getting the tender document / schedules, the Bidder should go through’ them carefully and then submit the documents as asked, otherwise bid will be rejected.

No. of Corrections- NIL  
No. of Deletions – NIL  
No. of Insertions – NIL

- 35.1.8 If there are any clarifications, this may be obtained online through' the tender site, or through' the contact details. Bidder should take into account the corrigendum published before submitting the bids online.
- 35.1.9 Bidder then logs in to the site through the secured log in by giving the user id/ password chosen during Enrolment / registration and then by giving the password of the e token/smart card to access DSC.
- 35.1.10 Bidder selects the tender which he/she is interested in by using the search option & then moves it to the ' my tenders' folder.
- 35.1.11 Form my tender folder, he selects the tender to view all the details indicated.
- 35.1.12. It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the bid will be rejected.
- 35.1.13 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF/xls/rar/zip/dwf formats. If there is more than one document, they can be clubbed together and can be provided in the requested format. Each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2 MB, it can be reduced through zip/rar and the same can be uploaded, if permitted. Bidders Bid documents may be scanned with 100 dpi with black and white option. However of the file size is less than 1 MB the transaction uploading time will be very fast.
- 35.1.14 If there are any clarifications, this may be obtained through the site, or during the pre-bid meeting if any. Bidder should take into account the corrigendum published from time to time before submitting the online bids.
- 35.1.15 The Bidders can update well in advance, the documents such as certificates, annual report details etc., under My Space option and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
- 35.1.16 Bidder should submit the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission due date & time for the tender. Scanned copy of the instrument should be uploaded as part of the offer.
- 35.1.17 While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets.
- 35.1.18 The bidder has to select the payment option as offline **to pay the EMD as applicable** and enter details of the instruments.
- 35.1.19 The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise submitted bid will not be acceptable.
- 35.1.20 The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read all sections and pages of the bid document

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL



- including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender requirements.
- 35.1.21 The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid will be rejected
- 35.1.22 If the price bid format is provided in a spread sheet file like BoQ\_xxxx.xls, the rate offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Price Bid/BOQ template must not be modified/replaced by the bidder, else the bid submitted is liable to be rejected for this tender.
- 35.1.23 The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour
- 35.1.24 After the bid submission (i.e after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number, given by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and will also act as any entry pass to participate in the bid opening date.
- 35.1.25 The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
- 35.1.26 All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening.
- 35.1.27 Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 35.1.28 The confidentiality of the bids is maintained since the secured Socket Layer 128 bit encryption technology is used. Data storage encryption of sensitive fields is done.
- 35.1.29 The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- 35.1.30 For any queries regarding e-tendering process, the bidders are requested to contact as provided in the tender document. Parallel for any further queries, the bidders are asked to contact over phone: **0389-2362227 (Extn-206)**

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

**GENERAL CONDITIONS**

1. Unless otherwise provided in the Schedule of quantities the rates Tenderer 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. Payment for centering, shuttering, however if required to be done for floor to floor heights greater than 3.5 m. shall be admissible at rates arrived at in accordance with clause-12 of the agreement if not already specified.
2. The building work will be carried out in the manner complying in all respects with the requirements of relevant by laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
3. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
4. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been in built in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account.
5. Testing of materials:  
Samples of various materials required for testing shall be provided free of charge by the contractor. Testing charges, if any, shall be borne by the department. However in case samples fail in testing, the testing charges if any shall be borne by the contractor. All other expenditure required to be incurred for taking the samples; conveyance, packing etc. shall be borne by the contractor himself.
6. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the bid and Architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-Charge.
7. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department or procured by the contractor and nothing extra shall be payable to the contractor on their accounts.
8. The full nomenclature of items shall be adopted in preparing abstract of final bill in the measurement book and also in the bill form for final bill.
9. The bidder shall abide by the rules and regulations under relevant State GST, as amended from time to time and deductions shall be made from the gross value of the work done from all bills as per the provisions of above stated Acts. Nothing extra on account of this deduction shall be paid.
10. The Successful bidder should register the work with Labour Department, Govt. Of Mizoram

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

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after issue of award letter and should not start the work without registration.

11.0 **OTHER CONDITIONS :**

- 11.1 The contractor will have to work according to the programmed of the work, decided by the Engineer-in-Charge. The contractor for shall also construct a sample unit complete in all respect within time specified by the Engineer-in-Charge and this sample unit shall be got approved from the Engineer-in-charge before mass construction is taken up. No extra claim what so ever beyond the payments due at agreement rates will be entertained from the Contractor on this account.
- 11.2 The contractor shall take instructions from the Engineer-in-Charge for stacking of materials in any place. No excavated earth or building material shall be stacked on areas where other buildings, roads, services of compound walls are to be constructed.
- 11.3 If as per municipal rules the huts for labour are not to be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
- 11.4 Cement bags shall be stored in separate godowns to be constructed by contractor at his own cost as per sketch which is only indicative and actual size will depend on the site requirements as per CPWD Specification **2009** (Vol. I) with correction slips upto **29/08/2014** and R.C.C. work in pursuance (IS: 456-2000) with weather proof roof and walls. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with BSF Engineer-in-Charge of work and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is removed from the godown according to the daily requirement with the knowledge of both the parties and proper account maintained in standard proforma.
- 11.5 The contractor shall be fully responsible for the safe custody of the materials even if the materials are under double lock system.
- 11.6 Contractor shall bear all incidental charges for cartage, storage and safe custody of materials and shall construct suitable godowns, yards at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
- 11.7 All materials shall be got checked by the Junior Engineer-in-Charge of the works on receipt of the same at site before use.
- 11.8 Royalty at the prevalent rates shall have to be paid by the contractor on all the

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

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boulders, metals, shingle, sand and bajri etc. collected by him for the execution of the work, direct to the Revenue Authority or authorized agent of the State Government concerned or Central Government.

- 11.9 For all kind of **RCC works only O.P.C. grade 43** shall be used.
- 11.10 Except otherwise mentioned, in the nomenclature of items, the rates for each item shall deemed to include for all leads and lifts and for working in or under water and/ or foul conditions and/ or for bailing out water wherever required for which nothing extra shall be paid.
- 11.11 Drilling holes to secure fastener/ screws in walls and chase cutting in the walls wherever necessary shall be done by mechanical means i.e. by hammer drill machine & the chase cutting machine respectively for which nothing extra will be paid to the contractor.
- 11.12 The Contractor shall prepare and supply three sets of the completion drawings of all the external and internal plumbing, water supply, sanitary, drainage, electrical and other specialized works including all other services and completion plan of the building on completion of the services, to the Engineer-in-charge. One soft copy or hard copy of the relevant Architectural drawing for enabling the contractor to prepare the completion drawings shall be made available by the Engineer-in-Charge.
- 11.13 Before placing the reinforcement bars in position, contractor shall submit the bar bending schedule indicating the shape of bar, type/ designation of bar, number of bars, the diameter bars, quantity of reinforcement etc., as per structural drawing for approval by the Engineer-in-Charge in writing. After the approval of the bar bending schedule by the Engineer-in-Charge, the reinforcement shall be placed in position and thereafter it shall be measured in the measurement book and got test checked of its accuracy before embedding or before placing it beyond the reach of measurement, from the Engineer-in-Charge or his authorized representative. Similar action shall also be taken for all other hidden items. It will be the responsibility of the contractor to bring out to the notice of the Engineer-in-Charge the deviations, if any giving the details of the measurements with locations for approval of the competent authority immediately after it is detected or foreseen.
- 11.14 All PVC pipes and PVC fittings to be provided shall be able to sustain 6 kg/cm<sup>2</sup> internal hydraulic pressure.
- 11.15 Brand and trade name of the paint to be used in the work shall be got approved in writing from the Engineer-in-Charge before application of the samples of different shades. After the written approval of the Engineer-in-Charge about brand, trade name, sample and shades of the paints the contractor shall make bulk procurement of the paint. Before start of the item of painting, the original purchase vouchers, delivery challan of purchase of full quantity of paint materials shall have to be produced by the

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

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contractor to the Engineer-in-Charge. The contractor shall bring full quantity of required painting material at site and get it inspected from the Engineer-in-Charge before start of the item of painting.

- 11.16 Cutting of centrifugal cast (spun) iron pipes wherever required shall be done by electric machine. Pipes of different lengths as required having sockets will be brought to site. **No collar will be permitted to be used** in the work. If at any place collar is found used, no payment of the pipes connecting that collar and the sanitary fittings thereon shall be made in any case.
- 11.17 GI tank nipples of appropriate size shall be used as per written approval of the Engineer-in-Charge for making connection of pipes with the PVC water storage tanks.
- 11.18 Element of reinforcement as per standard design is included in the item of brick masonry manholes. Therefore, the reinforcement used in the manholes shall not be separately measured for payment under the item of reinforcement.

## 12. TESTING OF MATERIAL

- (a) The contractor shall procure all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.
- (b) In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same proper curing and carriage upto the laboratory where the test is to be performed. The cube tests can be performed at any laboratory approved by the Engineer-in-Charge.
- (c) Time allowed for execution of the work provided in clause 5 of Schedule 'F' is inclusive of the time required for any kind of testing of materials and preparation of Design mix of cement concrete for all R.C.C. work, time required for initial load testing / routine load testing of piles and time required for testing of weld etc.

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

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**ADDITIONAL CONDITIONS & SPECIFICATIONS**

1. All the work should be carried out as per the general specification for Elect. (Part -1 Internal 2013 & Part-II External of 1995) amended upto date and should also comply with relevant /provisions of the Indian Electricity Rules and Indian Electricity Act amended upto date of opening of tenders.
2. All the materials to be used on work shall be got approved by the Engineer in charge before their use for work & the rejected materials should be removed from the site of the work immediately.
3. All repairs & patch works shall be neatly carried out to match with original finish & all damages done to the buildings during the executing of electrical work shall be the responsible of the electrical contractor and same will have to be done /made good immediately by him at his own cost to the entire satisfaction of the Engineer-in-charge
4. The contractor is bound to sign the site order book as and when required by the Engineer in charge & carry out the instruction recorded therein.
5. The Contractor shall make his own arrangement for storing the materials and watch & ward of material shall be the responsibility of the contractor till the work is completed & buildings/ work are handed over to the Deptt.
6. All the stipulated materials to be supplied by the Deptt. Will be issued as per actual requirements from the SHQ AZL BSF Electrical store. The contractor shall be to return the balance un-used materials in good condition falling which recovery at twice the issued rates shall be making in case of materials issued at recoverable cost at the rates specified at appropriate place.
7. Wherever ceiling roses are not required to be provided in the light /fan/exhaust fan point due to site conditions the contractor shall use the connectors for which nothing extra shall be paid
8. The work shall not be taken over in part unless otherwise agreed to by the Engineer in charge.
9. All debris/malba occurred while carrying out electrical work shall be removed and shall be cleared by the contractor as soon as the work is completed
10. The contractor will have to make his own arrangement at his cost for transportation of materials from the point of issue of stores to site of work
11. All items which are not covered by the CPWD specification shall confirm to relevant Indian Standard specification as applicable.
12. The contractor shall ensure that all the persons executing the Elect. work have the valid electrical license issued by competent authority. Consequences arising due to the fault of the contractor not complying with the above conditions will be the responsibility of the contractor.
13. All deputed Staff/ Manpower/Engineers at different BOPs of BSF should possess valid
14. police verification document, valid IDs/Aadhar Card as per requirement of BSF.
15. Due to sensitivity of sites and security reasons of BOPs, work shall be executed in day time only (till 5 PM). Manpower shall not be allowed to stay at BOPs .Labour huts / staff residence shall be arranged by contractor at his cost.
16. The contractor shall himself arrange the required Water facility, electricity for construction/ personal purposes at BOPs at his cost.

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

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17. Load/light wiring, fixing/replacement of switches/ sockets, distribution board with MCB etc. of existing buildings at BOP's shall be in Contractor's Scope. Nothing extra shall be paid to contractor for the same.
18. Suitable change-over switches shall be provided for Grid supply/ DG set/ Solar Power at BOPs.
19. The Standard comprehensive Onsite Maintenance and Warranty will be valid for five years including Battery bank from the date of taking over of installation of Solar Plant including repair and replacement of defective parts including batteries. Warranty will be free of cost and nothing will be paid for repair/maintenance or any other job on account of works required to execute during Maintenance and Warranty period.
20. Contractor shall appoint state wise maintenance team and attend any defects within 24 hours
21. Contractor shall sign Service Level Agreement (SLA) with BSF on Rs. 100/- stamp paper as per the standard format approved by BSF.
22. Insurance of all the equipments installed at site shall be in the Contractor's Scope.
23. Phone, photography, camera not allowed at BOPs.
24. The Contractor shall be responsible for consequential effects arising out during the inspection done by the Chief Technical Examiner Cell, Central Vigilance Commission or by the Building Works Committee or third party authorized by BSF or any statutory committee or by any duly authorized representative of BSF, during the progress or any time after the construction and development of project up to the defect liability period, and will take appropriate action for rectification of defective work. Rectification of defective works or replacement of sub-standard materials or articles, as pointed out by the Chief Technical Cell, Central Vigilance Commission, Building Works Committee or authorized representative of BSF or third party authorized by BSF or any statutory committee, will be carried out or replaced by the Contractor at his own risk and cost. BSF will not pay any extra amount for such rectification or replacement.
25. Handing Over of the Project: Contractor will hand over the project to Owner /Client after successful completion of each component of the project in all respect and complete satisfaction of Engineer-In-charge. The partial handing over of project components shall not be considered. Contractor shall also provide necessary Completion Certificate/NOC from all local Government/ Statuary Authorities including Fire, Forest, Electrical, Environment, DG Set, required before handing over the project to the client. The onsite maintenance and warranty period will be five years after such handing over.
26. The Contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording etc. nothing extra shall be payable to the agency on this account.
27. Contractor shall arrange water electricity food and lodging at his own cost for workers employed at site, his technical staff and site staff.
28. The work will be commenced by the Contractor only after the approval of drawings from the concerned local authorities including fire fighting's department or any other department as per statutory requirement.
29. The Contractor shall be solely responsible to follow the general clauses of the contract including labour regulations, registration of contractor, obtaining labour license from labour department, safety precautions, etc. and all other statutory provisions related to labor/works as per the prevailing General Clauses of Contract amended from time to time. The Contractor shall stick to the schedule of all activities and carry out it with mutually agreed time frame.
30. Rates and amount Quoted by contractor shall be firm and fixed for entire contract period as well as extended period for completion of the works. No escalation shall be applicable on this contract.
31. Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights lifts, leads and depths of the structure and nothing extra shall be payable on this account.

No. of Corrections- NIL  
 No. of Deletions – NIL  
 No. of Insertions – NIL

32. The contractor shall make his own arrangements for obtaining electric connection and water Connection/arrangement (if required) and make necessary payments directly to the department concerned. No dispute in this regard shall be entertained.
33. Some restrictions may be imposed by the security staff etc. on the working and for movement for labor materials etc. The contractor shall be bound to follow all such restrictions / instructions and nothing extra shall be payable on this account. Labors are not allowed to stay at site after 5 P.M.
34. The Project work will be carried out in the manner complying in all respects with the requirements of relevant bye laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer in charge and nothing extra will be paid on this account.
35. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rule and regulations and pay all fees and charges which he may be liable.
36. The contractor shall give a performance test of the entire installation (s) as per standing specification before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
37. The work shall be carried out in accordance with the Architectural drawings (Submitted by contractor) and structural drawings approved, by the Engineer-in-Charge. Before commencement of any item of work the contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc. approved for the work and satisfy himself that the information available there from is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim whatsoever shall be entertained on this account.
38. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials.
39. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer in charge. Nothing extra shall be paid on this account.
40. No payment will be made to the contractor for damage caused by any accidents, rains, or other natural calamities during the execution of the works and no such claim on this account will be entertained.
41. Various factory made materials shall be procured from reputed and MNRE approved manufacturers or their authorized dealers. List of such approved manufacturers is available at Annexure VII. For the items / materials not appearing in the list the decision of Engineer in charge shall be final and binding.

No. of Corrections- NIL  
 No. of Deletions – NIL  
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42. Contractor shall have to execute a Guarantee Bond in respect of Water Proofing works as per Performa attached in this N.I.T. at Annexure II. He shall also have to execute guarantee bonds for the work on the proforma available at Annexure I.
43. Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Engineer in charge. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, contractor should negotiate with concerned specialist agencies and send their names for approval to Engineer in charge. Any material procured without prior approval of Engineer in charge in writing is liable to be rejected. Engineer in charge reserves right to get the materials tested in laboratories of his choice before final acceptance. Nonstandard materials shall not be accepted.
44. The gradation of fine sand to be used in plaster work, shall be strictly as per Table 3.1 (clause 3.1.3) of CPWD Specification 2009 Vol. - I conforming to IS 1542-1977. The plastered surface shall be fairly smooth without any undulation of any kind for applying paint/white wash.
45. No chase cutting/dismantling of plaster/RCC/CC shall be allowed, so contractor has to execute the electrical work accordingly.
46. The contractor shall take instruction from the Engineer in charge for stacking of materials at any place. No excavated earth or Project material shall be stacked on areas where other buildings, roads, services or compound walls are to be constructed.
47. If as per municipal/BSF rules, the huts for labour are not be created at the site of work by the contractors, the contractor are required to provide such accommodation as is acceptable to local bodies/BSF and nothing extra shall be paid on this account.
48. Royalty at the prevalent rates shall be payable by the contractor on all the boulders, metals, shingle, sand and bajri etc. collected by him for the execution of the work, direct to the Revenue authority or authorized agent of the state Government concerned or Central Government. No such claim of Contractor on royalty shall be entertained by the BSF.
49. The material shall conform to the quality and make as per attached list in Annexure VII. However for the items not appearing in the list preference shall be given to those articles which bear ISI certification marks. In case articles bearing ISI certification marks are not available the quality of sample brought by the Contractor shall be judged by the standard laid down in the relevant ISI specification/CPWD/MNRE specification. All materials and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles which bear ISI mark but stand banned by CPWD/MNRE will not be used. Notwithstanding the case of materials of "Preferred Make" as given in Annexure VII, provisions of Clause 10A of the General Conditions of Contract for Central PWD works shall be applicable on the materials of "Preferred Make" also.
50. It must be ensure that all materials to be used in work bear BIS certification mark. In cases where BIS certification system is available for a particular material/product but not even a single producer has so far approached BIS for certification the material can be used subject to the condition that it should confirm to CPWD specification/MNRE

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51. Specifications and relevant BIS codes. In such case written approval of the Engineer-In-Charge may be obtained before use of such material in the work.
52. The final approval of the brand to be used shall be as per the direction of Engineer-in-Charge. The brand used shall be one of the brands in case specified in the list of preferred make / materials annexure-VII.
53. In case of non-availability of material of the brands specified in the list of approved materials an equivalent brand may be used after getting written approval of BSF giving details to indicate that the brand proposed to be used is equivalent to the brands mentioned in the agreement.

**54. Special conditions for Cement**

55. The contractor shall procure 53 grade Ordinary Portland Cement (conforming to IS : 8112), Portland pozzolona cement (confirming to IS : 1489 : Part –I) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Ambuja, Jaypee Cement, and or from any other reputed cement manufacturer, having a production capacity not less than one million tones per annum as approved by BSF. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacture(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufactures, given by the tenderer, fully or partially. The cement brought to the site for execution of work shall be in bags bearing manufacturer's name & ISI marking. Weight of cement in each bag shall be 50 kg. Samples of cement arranged by the contractor shall be taken by the Engineer- in-Charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and it shall be removed from the site by the contractor at his own cost within 7 days of written order from the Engineer-in-Charge to do so.

**56. Special Conditions for Steel:-**

57. The contractor shall procure TMT bars of Fe500/Fe500D/Fe550/Fe550D grade (the grade to be procured is to be specified) from primary steel producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by BSF who are using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tonnes per annum and above.

**58. Removal of rejected/sub-standard materials.**

59. The following procedure shall be followed for the removal of rejected/sub-standard materials from the site of work:
- 59.2 Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the Site Order Book under the signature of the Engineer-In-Charge, giving the approximate quantity of such materials.
- 59.3 As soon as the material is removed, a certificate to that effect shall be recorded by the Engineer-In-Charge against the original entry, giving, the date of removal and mode of removal, i.e., whether by truck, carts, or by manual labour. If the removal is by truck, the registration number of the truck should be recorded.
- 59.4 When it is not possible for the Engineer-In-Charge to be present at the site of work at the time of actual removal of the rejected/sub-standard materials from the site, the required certificate should

No. of Corrections- NIL  
 No. of Deletions – NIL  
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be recorded by the Authorized Representative of BSF, and the Engineer-In-Charge should countersign the certificate recorded by the Authorized Representative.

60. The contractor has to take permission from the BSF & local authorities etc. if required for work during night hours. No claim / hindrance on this account shall be considered if work is not allowed during night time.
61. Once the Project is completed and the contractor shall be responsible to attend defect pointed out by BSF/BSF and then hand over the Project to the client.
62. Contractor should hand over the warranty of the specialized items to the BSF.
63. The contractor is required to deploy resources as per availability of site. However no claim will be entertained for idle labour, idle machinery, idle technical/no-technical staff, idle T&P etc.
64. Contractor shall not divert any advance payments or part thereof for any work other than that needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e. mobilisation advance, secured advance against materials brought at site, secured advance against plant & machinery and/or for work done during interim stages, etc) are required to be re-invested in the contracted work to ensure advance availability of resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.
65. All running account bills preferred by the contractor for advance payments shall be processed only if Engineer-in-charge is satisfied that upto date investments (excluding security deposit & performance guarantee, which are not considered as investments) made by the contractor against contracted work are more than the payments received. Accordingly, all running account bills shall be supported with an account of up-to-date payments received vis-a-vis upto date investments made on the work to enable engineer-in-charge to check to his satisfaction that the payments made by engineer-in-charge are properly utilised only on the work and nowhere else.

**For & on behalf of Tenderer**

No. of Corrections- NIL  
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**LIST OF ACCEPTABLE MAKE SHALL BE FOLLOWED IF NOT MENTIONED IN THE SCHEDULE OF QUANTITIES**

<b>Sl. No.</b>	<b>Item</b>	<b>Make of Materials/Equipment</b>
1	Inverter/Charge Controller	ENERTECH, LUMINOUS, PPS, SMA or other MNRE approved vendor
2	SPV PANEL	CEL, BEL, BHEL, TATA or other MNRE approved vendor
3	Distribution board	Legrand, ABB, schneider, Siemens or other reputed make (ISI Marked)
4	MCB,RCCB, disconnectors	Legrand, ABB, schneider, Siemens or other reputed make (ISI Marked)
5	DCstring cable- copper	Apar/Siechemm/Lapp or other reputed make (ISI Marked)
6	DC main cable	KEI/Polycab/Ravin cables or other reputed make (ISI Marked)
7	DC surge protection device	ABB/CITEL/ISKRA or other reputed make (ISI Marked)
8	660/1100 volt grade stranded PVC unsheathed wire with copper conductor	Finolex/RR Kabel/Polycab/KEI or other reputed make (ISI Marked)
9	Modular type switches, Sockets, bell push, etc	Crabtree, Legrand Mosaic, MK Blenze, Northwest make (ISI Marked)
10	1.1kV Cu/Al Cable	Havells/NICCO/Torrent/CCI/Gloster/Polycab/Ravin/ KEI (ISI Marked)
11	Conduits PVC /MS	BEC/AKG/ Balco or other reputed make (ISI Marked)
12	Battery	EXIDE, NED, HBL or other MNRE approved vendor
13	LED Light	Philips/Bajaj/Havells (ISI Marked)
14	Ordinary Portland Cement Grade 43/53	BIRLA,JK,ACC,ULTRATECH,JAYPEE, AMBUJA, SHREE
15	Reinforcement Steel	TATA , SAIL, RINL, JINDAL, JSW STEEL, SRMB
16	Paint/Polish/Primer/Water ProofingPaint	BERGER, ASIAN, DULUX
17	Powder Coating	AKZONOBEL, ASIAN

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**SCHEDULE OF QUANTITIES**

**NAME OF WORK** - Providing, Installation, Testing and Commissioning of 10 KWp Off-Grid Solar Power Plant at Composite BOP Chhotapansuri of 60 Bn BSF under SHQ BSF Aizawl

S.No.	Description of items	Qty	Unit	Rate	Amount
1	Providing, Installation, Testing and Commissioning of Polycrystalline silicon Solar PV Module of 10KWp (330 watt each) with mounting structure for the solar panel on top of roof/On- ground having Efficiency $\geq 13\%$ , Fill factor $\geq 70\%$ , module frame made of Non-corrosive and electrolytically compatible with the mounting structure material, 02 Nos chemical earthing, Termination box made of Thermo-plastic, IP 65, UV resistant, Schottky type Blocking diodes i/c mounting structure connecting wire etc as req (make like: Sukam/TATA-BP/Usha solar or similar make of MNRE approved firm)	1	Each		
2	Providing, Installation, Testing and Commissioning of 12 V 200 AH tubular battery having min Warranty 60 Month, Approx Dry Weight with rack etc as req (make: SUKAM Bazooka 200AH Battery/TATA/Amron/Usha or similar make )	10	Each		
3	Providing, Installation, Testing and Commissioning of MPPT Technology based Solar PCU Rating 10 KWp Power device (5 years on-site warranty) including all cables having IGBTs cum MOSFETs Input Parameters Nominal I/P Voltage 120V Input Voltage Range 110 V- 130V $\pm 2\%$ Low Battery cut off 110V $\pm 2\%$ High Battery shutdown 130V $\pm 2\%$ Output Parameters Voltage Regulation at nominal voltage $230 \pm 5\%$ Frequency Regulation 50Hz $\pm 0.2$ Hz Efficiency (typical) at linear load $>85\%$ (linear load) Waveform pure Sine Wave Total Load 8 Kw @ UPF Overload 200% for 8 seconds THD (on Linear Load) $<3\%$ (linear load) Power usage Priority from Photovoltaic Array Crest Factor $>3:1$ GRID CHARGER Grid I/P voltage Range WW-155 VAC-280VAC $\pm 10$ V and NW-185 VAC-265VAC $\pm 10$ V Charging Current Max. 30Amp + 2Amp ( Factory settable) SOLAR CHARGE CONTROLLER Type Series Regulator Common Negative Maximum I/P PV Voltage 25V Per 12V Solar Panel Solar Array Single Array Charging Current $I_{max} > 20$ A Bulk Voltage 57.6V $\pm 2\%$ V Adjustable Bulk Voltage PV Charge Controller Rating 10KWp 110 V-130 V float Voltage 120 V $\pm 2\%$ Operating Temp 0°C to + 45°C Storage Temp 0°C to + 55°C Acoustic noise $< 60$ dB Relative Humidity 0-95% Non-Condensing Dimension 351 x 617 x 320 mm Weight 35 kg Pure sine wave output, In-built heavy duty Solar charge Controller, Grid charging enable disable option, Solar and Grid charging current sharing for maximum solar usage - User set-able Solar Mains Battery (SMB) and Solar Battery Mains (SBM) operations , Battery low protection,- Battery over voltage shutdown, Over temperature and overload protection , Short circuit protection,- Reverse polarity protection by internal fuse, Displays-- Display showing PV & Inverter output,- LCD showing various input and output parameters/c connection etc as req. (make like: Sukam-SUPCU-2000-48V/TATA-BP solar/ Vispra /UTL or similar make of MNRE approved firm)	1	Each		

Approved by

No. of Corrections- NIL  
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