



भारत सरकार  
Government of India  
गृह मंत्रालय-सीमा सुरक्षा बल  
Ministry of Home Affairs, Border Security Force



<b><u>SPECIMEN NIT No. 04 /FTR-SB/EE (E)/2026-27</u></b>	
Tech. Sanction No.	: Engg (Elect)/SB/2026/128-29, Dated 14/05/2026
Name of Work	“Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”
Estimated Cost	: Rs. 8,18,686/-
Earnest Money	: Rs. 16,374/- in favour of “ <b>DIG SHQ BSF Kolkata</b> ”
Cost of tender document	: Nil
Security Deposit	: 2.5% of tender amount
Performance Guarantee	: 5% of tender amount
Time Allowed	: 180 days
Mode of tender	: Percentage rate tender

Certified that this tender document contains pages 01 to 42 (One to Forty-two) Only.

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**Approved / Not Approved**

**Executive Engineer (Elect)  
Ftr HQ BSF South Bengal**

## INDEX

**Name of work:** - “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”

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**NOTICE INVITING E- TENDER**

Name of work: “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”

Estimated Cost	:	Rs. 8,18,686/-
Earnest Money	:	Rs. 16,374/- in favour of “ <b>DIG SHQ BSF Kolkata</b> ”
Cost of tender document	:	Nil
Security Deposit	:	2.5% of tendered value
Performance Guarantee	:	5% of tendered value
Time Allowed	:	180 Days

**(NOTICE TO BE POSTED ON WEB SITE)**

No. Engg (Elect)/Ftr-SB/2026-27 \_\_\_\_\_

Dated,

**Notice Inviting e –Tenders**

The Executive Engineer (Electrical), Ftr HQ BSF SB Kolkata on behalf of President of India invites percentage rate tender on two bid system from approved and eligible contractors of CPWD and those of appropriate list of MES, BSNL, Railways, state PWD. The enlistment of the contractors should be valid on the last date of submission of bids. In case of the last date of submission of bid is extended, the enlistment of contractors should be valid on the original date of submission of bids. Details of work are as under:-

Name of work	:	“Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”
NIT No.	:	<b><u>04 /FTR-SB/EE (E )/2026-27</u></b>
Estimated Cost	:	<b>Rs.8,18,686/=</b>
Earnest Money	:	<b>Rs. 16,374/- in favour of DIG SHQ BSF Kolkata</b>
Period of Completion	:	180 Days
Last date & time of submission of bid	:	xxxx up to 1200 Hrs.
Date and time of opening of online technical bid	:	xxxx up to 1230 Hrs.
Date and time of opening of online financial bid	:	Will be intimated online later after approval of technical bid by competent authority.

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.

The tender forms and other details can be seen and downloaded from the site [www.eprocure.gov.in](http://www.eprocure.gov.in)

2. Technical bid shall be considered valid only of those contractors who will upload the scanned copies of the following documents along with technical bid.

- Original EMD & copy of receipt for deposition of original EMD (as per form- ‘A’) to any of BSF DDO/ENGG Officer (i.e. Command HQ/ Ftr HQ/ SHQ/ Training Centre/ Bn HQ BSF) before last date and time of submission of bid.
- Valid Electrical Enlistment order of CPWD, MES, BSNL, Railways, and state PWD.
- Valid Electrical License.
- PAN Card and GST Registration certificate.
- Certificates of similar type of work experience as per para 1.2.1/1.2.2/1.2.3 of Form-6 for contractors.
- Latest ITR & GST Return.
- Scanned copy of NIT duly ink sign and stamped by the contractor on each page.
- FORM “D” FORMAT FOR UNDERSTANDING THE PROJECT SITE  
(on Bidder Letter Head) as per format provided in NIT
- FORM “E” FORMAT FOR NO DEVIATION CERTIFICATE (on Bidder Letter Head) as per format provided in NIT
- FORM “F” FORMAT FOR INTEGRITY PACT (on Bidder Letter Head) as per format provided in NIT
- Affidavit as per clause 1.2.3 of Form 6 on non-judicial stamp paper of minimum Rs. 100/-.

JE(Elect)

AE(Elect)

EE (Elect)

“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.”

- l) An undertaking is required that bidder is not blacklisted/ banned by any department.
  - m) Average annual financial turnover should be at least 30% of the estimated cost put to tender during the immediate last three consecutive financial years duly certified by the CA.
  - n) GST Registration certificate, if already obtained by the bidder.  
If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents.  
“If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by BSF, 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 BSF or GST department in this regard”.
- 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) /[eprocure.go.in](http://eprocure.go.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in)
5. Conditional tender will be summarily rejected without assigning any reason.

**Executive Engineer (Elect)  
Ftr HQ BSF SB Kolkata**

**Distribution: -**

- |   |  |
|---|--|
| 01. Contractor Association CPWD (EZ),<br>Nizam Palace AJC Bose Road Kol-20      | : For Information and wide publicity please. |
| 02. Chief Engineer (EZ), CPWD, Nizam Palace,<br>234/4 AJC Bose Road, Kolkata-20 | : For Information and wide publicity please. |
| 03. EE, CPWD, CCD-VII, Nizam Palace, Kol- 20                                    | : For Information and wide publicity please. |
| 04. Director of Horticulture Deptt. CPWD,<br>Nizam Palace, Kol- 20              | : For Information and wide publicity please. |
| 05. EE CPWD, Siliguri Central Division,<br>CPWD Near Rabindra Nagar,            | : For Information and wide publicity please. |
| 06. Contractor Association CPWD (EZ),<br>Nizam Palace AJC Bose Road Kol-20      | : For Information and wide publicity please. |
| 07. SHQ BSF MLD/ BHP/ KNR.  | : For Information and wide publicity please. |
| 08. DDO FTR HQ BSF SB   | : For Information and wide publicity please. |
| 09. Composite Hospital BSF Kolkata  | : For Information and wide publicity please. |
| 10. Vigilance Cell, SHQ BSF Kolkata   | : For Information and wide publicity please. |
| 11. Engg Br. Ftr HQ BSF SB  | : For Information and wide publicity please. |
| 12. SDG BSF HQ(EC) Kolkata  | : For Information and wide publicity please. |
| 13. The Commandant 77/145/85/102/05/143 Bn                                      | : For Information and wide publicity please. |
| 14. IT Branch, FTR HQ BSF SB  | : For Information and wide publicity please. |
| 15. Notice Board  |  |
| 16. File  |  |



भारत सरकार  
**Government of India**  
 गृह मंत्रालय-सीमा सुरक्षा बल  
**Ministry of Home Affairs, Border Security Force**



**FORM-6 For E-tendering**

The Executive Engineer (Electrical), Ftr HQ BSF SB Kolkata, invites on behalf of President of India online **percentage rate tender** from approved and eligible contractors of CPWD and those of appropriate list of MES, BSNL, Railways, state PWD. The enlistment of the contractors should be valid on the last date of submission of bids. In case of the last date of submission of bid is extended, the enlistment of contractors should be valid on the original date of submission of bids.

**“Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”**

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 to cost **Rs. 8,18,686/-** only. 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 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: “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).” 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.). (SIMILAR WORKS MEANS- Providing of Electrical installation, service connection, fan, with provision of Lightning conductor/ Electrical works).**

**1.2.2 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 1.2.2**.

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 **180 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 Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e-Bank Guarantee from any of the Commercial Banks (**drawn in favour of DIG SHQ BSF Kolkata**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited alongwith prescribed format mentioned in Form-A of NIT to any of BSF DDO / Engg Officer i.e. **Command HQ / Frontier HQ / Sector HQ/ Training Centre/ Bn HQ BSF** before last date & time of submission of bid. The EMD receiving authority (**DDO /Engg Officer**) of any BSF establishment i.e. **Command HQ/ Frontier HQ/ Sector HQ/ Training Centre/ Bn HQ BSF** shall examine EMD in original form deposited by the bidder and issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (**as per enclosed Form-A**) uploaded by tender inviting authority in the NIT. The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency. Original EMD & Copy of receipt for deposition of original EMD (as per form A) to any of BSF DDO/ENGG Officer (i.e. Command HQ/ Ftr HQ/ SHQ/ Training Centre/ Bn HQ BSF) shall be scanned and uploaded before last date and time of submission of bid.  
Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e-tender 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 e-tender 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 to any of BSF DDO/ENGG Officer (i.e. Command HQ/ Ftr HQ/ SHQ/ Training Centre/ Bn HQ BSF) and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **1230 Hrs** on **xxxx**.

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 5% (Five 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 programme 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.

11.1 PPP-MII order 2017 and MSES order 2012 will be followed.

11.2 **Clarification of bids/ shortfall documents-**

During evaluation of comparison of bids, the procuring entity may at his discretion, asked the bidders for clarification on the bid. The request for clarification shall be given in writing by registered/speed post/ E-mail, asking the tenderer to respond by a specified date (within three days) and also monitoring their in that, if the tenderer does not comply or respond by the date, his tender will be liable to be rejected.

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 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 gazetted 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 Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of **75 (seventy five)** 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 or 3 bid 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.



भारत सरकार  
Government of India  
गृह मंत्रालय-सीमा सुरक्षा बल

Ministry of Home Affairs, Border Security Force  
**NOTICE INVITING E-TENDER**



STATE: WEST BENGAL  
BRANCH: ENGINEERING  
ZONE: EASTERN COMMAND

CIRCLE: FHQ NEW DELHI  
DIVISION: FTR HQ BSF SB  
SUB-DIVISION: SHQ BSF KOL

**PERCENTAGE RATE TENDER CONTRACT FOR WORKS**

**Tender for the work:-** “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”

(i) To be submitted online by 1200 Hrs on xxxx.

(ii) To be opened by board of officers in presence of tenderers who may be present at **1230 Hrs and xxxx in the Office of the IG, FTR HQ BSF South Bengal, KOLKATA.**

**TENDER**

I/we have read and examined the notice inviting tender, schedule A.B.C.D.E & F, specifications applicable, Drawing and Design, General rules and directions, Conditions of contract, clauses of the contract, special conditions, schedule of Rates & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/we have 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 respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clauses 11 of the Conditions of contract and with such materials as are provided for by, and in respects in accordance with such conditions so far as applicable.

We agree to keep the tender opened for **seventy-five (75)** days from last date of opening of technical bids and not to make any modifications in its terms and conditions.

A sum of **Rs. 16,374/-** is hereby forwarded in Deposit call receipt of Scheduled Bank as earnest money. If I/we fail to commence the work specified, 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 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 therein and to carry out such deviations as may be ordered upto maximum of the percentage mentioned in schedule ‘F’ and 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 forms.

I/we hereby declared 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 authorised to communicate the same or use the information in any manner prejudicial to the safety of the state.

**Date**

**Signature of Contractor  
Postal Address**

**Witness  
Address  
Occupation**

**ACCEPTANCE**

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

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

(i)

(ii)

(iii)

For & on behalf of President of India

Signature .....

Dated:

Designation .....

**SCHEDULES**

SCHEDULE 'A'

Schedule of quantities-

Attached at page No. ....

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-----				

JE(Elect)

AE(Elect)

EE (Elect)

## SCHEDULE 'C'

Tools and plants to be hired to the contractor

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

## SCHEDULE 'D'

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

## SCHEDULE 'E'

Reference to General Conditions of contract. upto date GCC 2023 CPWD Form-7 as modified and amended of submission of tender.

Name of Work: "Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC)."

Estimated cost of work : **Rs. 8,18,686/-**  
 (i) Earnest Money : **Rs. 16,374/-**  
 (ii) Performance Guarantee : 5 % of tendered value  
 (iii) Security Deposit : 2.5% of tendered value

## SCHEDULE 'F'

GENERAL RULES & DIRECTIONS : CPWD General Specification for Electrical Works and corrected up to last date of submission of bid.  
 2023

Officer inviting tender : Executive Engineer (Elect), Ftr HQ BSF SB

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 : Executive Engineer (Elect), Ftr HQ BSF SB

2(viii) Accepting Authority : Executive Engineer (Elect), Ftr HQ BSF SB

2(x) Percentage on cost of materials and Labour to cover all overheads and profits : 15%

2(xi) Standard Schedule of Rates : **Delhi Schedule of Rates 2025.**

2(xii) Department : BORDER SECURITY FORCE

9(ii) Standard CPWD Contract Form Corrected up : GCC 2023, CPWD Form 7/8 modified to last date of submission of bid

Clause 1

(i) Time allowed for submission of Performance Guarantee Programme Chart (Time & progress) in days : **10 days**

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above in days : **07 days**

Clause 2

Authority for fixing compensation under clause 2 : Commandant/SE (Elect)

Clause 2A

Whether Clause 2A shall be applicable : No

Clause 5

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

Time allowed for execution of work : **180 Days**

Authority to decide:

(i) Extension of time SB : Executive Engineer (Elect), Ftr HQ BSF

(ii) Rescheduling of mile stones : N/A

Clause 6 : Applicable (CMB)

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 : N/A

**Clause 7 A**

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with

JE(Elect)

AE(Elect)

EE (Elect)

EPFO, ESIC and BOCW Welfare Board, whatever applicable as submitted by the Bidder to the Engineer-in Charge : Applicable

**Clause-7 B**

Whether clause 7 B shall be applicable : Yes

**Clause 8A**

Authority to decide compensation on account if contractor fails to submit completion plans : Commandant (Elect)  
Clause 10A

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

1..... 2. .... 3.....  
4..... 5. .... 6..... : Enclosed at page No.....

**Clause 10B(ii)**

Whether Clause 10 B (ii) shall be applicable : N/A

**Clause 10C**

Component of labour expressed as percent of value of work -Nil

**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.		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** : N/A

**Clause 11**

Specifications to be followed for execution of work : CPWD General Specification for Electrical Works Part I to VII as amended upto date & additional terms and conditions/ specifications attached.

**Clause 12****Type of work: Original Work**

Authority to decide deviation up to 1.5 time of tendered amount. : FHQ (Engg Dte) BSF New Delhi.

**12.2 & 12.3** Deviation Limit beyond which Clauses 12.2 & 12.3 shall apply for Electrical Work : 25%

**12.5** Deviation Limit beyond which

JE(Elect)

AE(Elect)

EE (Elect)

Clauses 12.2 & 12.3 shall  
apply for Foundation work : N/A

### Clause 16

**Competent Authority for deciding reduced rates-Executive Engineer (Elect)**

### Clause 18

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

1. ....
2. ....
3. ....
4. ....

As per site requirement

**Clause 19C** ....authority to decide penalty for each default: Executive **Engineer (Elect), FTR HQ BSF SB**

**Clause 19D** ....authority to decide penalty for each default: Executive **Engineer (Elect), FTR HQ BSF SB**

**Clause 19G** ....authority to decide penalty for each default: Executive **Engineer (Elect), FTR HQ BSF SB**

**Clause 19K** ....authority to decide penalty for each default: Executive **Engineer (Elect), FTR HQ BSF SB**

### Clause 32

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

Sl. No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1	Graduate Engineer Or Diploma Engineer	ELECTRICAL  ELECTRICAL	Principal Technical Representative  Principal Technical Representative	2-years  5- years	ONE  ONE	Rs.15000/-PM.  Rs.15000/-PM.	Rupees Fifteen Thousand Per Month each -do-

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

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING  
PART OF BID DOCUMENT**

The Executive Engineer (Electrical), Ftr HQ BSF SB Kolkata on behalf of President of India invites percentage rate tender on two bid system from approved and eligible contractors of CPWD and those of appropriate list of MES, BSNL, Railways, state PWD. The enlistment of the contractors should be valid on the last date of submission of bids. In case of the last date of submission of bid is extended, the enlistment of contractors should be valid on the original date of submission of bids. Details of work are as under:-

Sr. No	NIT no.	Name of work & Location	Estimated cost put to bid (Rs.)	Earnest Money	Stipulated Period of Completion of work (in months)	Last date of online submission Of bid, scanned copy of original EMD along with original EMD and other documents as specified in the bid document.	Date & time of opening of bid
1	2	3	4	5	6	7	8
1.	04/FTR-SB/EE (E )/2026-27	“Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”	<b>Rs. 8,18,686.00</b>	<b>Rs. 16,374.00</b>	<b>180 Days</b>	<b>Up to 1200 Hrs on xxxx</b>	<b>At 1230 Hrs on xxxx</b>

- The intending bidder must read the terms and conditions of Form-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.eprocure.gov.in](http://www.eprocure.gov.in) or [www.bsf.nic.in](http://www.bsf.nic.in) free of cost.
- But the bid can only be submitted after deposition of Copy of receipt for deposition of original EMD to any of BSF DDO/ENGG Officer (i.e. Command HQ/ Ftr HQ/ SHQ/ Training Centre/ Bn HQ BSF) before last date and time of submission of bid and uploading the mandatory scanned documents such as mentioned in NIT and other documents as specified.
- Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- The intending bidder must have valid class-III digital signature to submit the bid.

7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of PDF format.
9. Contractor must ensure to quote rate in the column (5) meant for quoting rate in figures appears in blue colour and the moment rate is entered, it turns sky blue. 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 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.

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

- a) Original EMD & copy of receipt for deposition of original EMD (as per form-'A') to any of BSF DDO/ENGG Officer (i.e. Command HQ/ Ftr HQ/ SHQ/ Training Centre/ Bn HQ BSF) before last date and time of submission of bid.
- b) Valid Electrical Enlistment order of CPWD, MES, BSNL, Railways, and state PWD.
- c) Valid Electrical License.
- d) PAN Card and GST Registration certificate.
- e) Certificates of similar type of work experience as per para 1.2.1/1.2.2/1.2.3 of Form-6 for contractors.
- f) Latest ITR & GST Return.
- g) Scanned copy of NIT duly ink sign and stamped by the contractor on each page.
- h) FORM "D" FORMAT FOR UNDERSTANDING THE PROJECT SITE  
*(on Bidder Letter Head) as per format provided in NIT*
- i) FORM "E" FORMAT FOR NO DEVIATION CERTIFICATE *(on Bidder Letter Head) as per format provided in NIT*
- j) FORM "F" FORMAT FOR INTEGRITY PACT *(on Bidder Letter Head) as per format provided in NIT*
- k) Affidavit as per clause 1.2.3 of Form 6 on non-judicial stamp paper of minimum Rs. 100/-.  
"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."
- l) An undertaking is required that bidder is not blacklisted/ banned by any department.
- m) Average annual financial turnover should be at least 30% of the estimated cost put to tender during the immediate last three consecutive financial years duly certified by the CA.
- n) GST Registration certificate, if already obtained by the bidder.  
If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents.

"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by BSF, 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 BSF or GST department in this regard".

**INTEGRITY PACT**

To

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NIT NO: - 04 / **FTR-SB/EE (E)/2026-27**

**Subject for the work:** - “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”

Dear Sir,

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

The subject Notice Inviting of 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 tender/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,

EE (Elect)/ DC(Elect)  
Ftr HQ BSF S B Kolkata

**FORM “F”****FORMAT FOR INTEGRITY PACT**

\*To be submitted on Bidder’s Original Letter Head]

To,  
**Executive Engineer (Elect)**  
**Ftr HQ BSF South Bengal**

**Sub: Integrity Pact for the work- “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”**

Dear Sir,

I / We acknowledge that Border Security Force 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 Border Security Force. I/ We acknowledge and accept the duration of 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, Border Security Force 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,

Signatures of Contractor with seal and address

(to be signed by the bidder and same signatory competent / authorized to sign relevant contract on behalf of B.S.F.)

JE(Elect)

AE(Elect)

EE (Elect)

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

**INTEGRITY AGREEMENT**

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

**BETWEEN**

President of India represented through Executive Engineer (Here In after referred as the ‘**Principal/Owner**’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

.....

(Name and Address of the Individual/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 hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal / Owner has floated the Tender (NIT No.....) (hein after referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for “.....”

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 endeavor 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) commits 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)/Contractor(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:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to 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 is made/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.

#### **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

**FORM “D”****FORMAT FOR UNDERSTANDING THE PROJECT SITE***(on Bidder Letter Head)*

To,  
**Executive Engineer (Elect),**  
**Ftr HQ BSF South Bengal.**

**Subject: Undertaking of the Site Visit for the work “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”**

Sir,

I/we hereby certify that I/we have examined & inspected the sites & its surrounding satisfactorily, where the project is to be executed as per the scope of works. I/ We are well aware about the following

- a) Location of all proposed site and its allied works.
- b) Site clearance and no cutting off the matured trees.
- c) Topography and contouring of the land where the project is to be executed to understand the cutting & filling during the construction and about depth of column/ foundation below the plinth beam.
- d) Nature of the ground & sub-soil of the site and accessibility to the site.
- e) Existing surrounding road level to finalize solar plant location as per standard norms.
- f) Location of Existing Sewer line & Water pipe line network to connect the proposed building and allied works to make the building functional.
- g) Location of existing buildings, Electric Sub-Station/D.G and proposed solar plant to supply the electricity for the existing buildings and allied works to make the building functional.
- h) Law and order condition at site.
- i) Rules and regulations of Security Agencies/ BSF authorities at BOPs for executing works by external agencies.
- j) Availability of water and construction Material.

I / We hereby submit our BID considering above all facts gathered during site visit and each & every aspect have been considered in the Quoted cost of the project. I / We hereby confirm that no extra/additional cost shall be claimed on above aspects.

Yours faithfully, Date:

(Signature, name and designation  
of the Authorized signatory)  
**Name and seal of Bidder**

**FORM “E”****FORMAT FOR NO DEVIATION CERTIFICATE**

[To be submitted on Bidder’s Letter Head]

To,

**Executive Engineer (Elect)**  
**Ftr HQ BSF South Bengal.**  
**West Bengal**

**Subject: No Deviation Certificate for the work: “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”**

Dear Sir,

With reference to above this is to confirm that as per Tender conditions we have visited site before submission of our Offer and noted the job content and site condition etc. We also confirm that we have not changed/modified the above tender document and in case of observance of the same at any stage it shall be treated as null and void.

We hereby also confirm that we have not taken any deviation from Tender Clause together with other reference as enumerated in the above referred Notice Inviting Tender and we hereby convey our unconditional acceptance to all terms & conditions as stipulated in the Tender Document.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null and void.

Thanking you,

Yours faithfully, Date:

(Signature, name and designation  
of the Authorized signatory)

Place:

**Name and seal of Bidder**

**Form of Performance Security (Guarantee)**  
**Bank Guarantee Bond**

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.

1. We, ..... (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. .... (Rupees..... Only) on demand by the Government.

2. We, ..... (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as 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)

3. We, the said bank further undertakes to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

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

5. We, ..... (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation 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 forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of 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, ..... (Indicate the name of the Bank) lastly undertake not 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 the Government.

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

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

## Form of Earnest Money Deposit Bank Guarantee Bond

WHEREAS, contractor ..... (Name of contractor) (hereinafter called “the contractor”) has submitted his tender dated ..... (Date) for the construction of ..... (Name of work) (hereinafter called “the Tender”)

KNOW ALL PEOPLE by these presents that we ..... (Name of bank) having our registered office at ..... (here In after called “the Bank”) are bound unto ..... (Name and Division of Assistant Engineer) (Here in after called “the Engineer-in-charge”) in the sum of Rs. .... (Rs. in words .....) for which payment well and truly to be made to the said Engineer-in-charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank thus .....day of .....20..... THE CONDITIONS of this obligation are:

- (1) If after tender opening the contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the instructions to contractor, if required; OR
  - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and instructions to contractor. OR
  - (c) Fails or refuses to start the work, in accordance with the provisions of the contract and instructions to contractor, OR
  - (d) Fails or refuses to submit fresh Bank Guarantee on an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-charge up to the above amount upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date\* ..... after the deadline for submission of tender as such deadline is stated in the instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

(SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

**FORM-A****FORMAT FOR DEPOSITING EARNEST MONEY****Receipt of Deposition of Original EMD**

Receipt No.....

Date.....

1.	Name of work	“Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”
2.	NIT No	<b>04 /FTR-SB/EE (E )/2026-27</b>
3.	Estimated Cost	<b>Rs. 8,18,686/-</b>
4.	Amount of EMD	<b>Rs.16,374.00 in favour of SHQ BSF Kolkata</b>
5.	Last date of submission of bid	xxxx Upto 1200 Hrs

**To be filled by EMD receiving officer**

1.	Name of contractor:	
2.	Form/shape of EMD No & Date:	
3.	Amount EMD Deposit:	
4.	Date of submission of EMD:	
5.	Last date of submission of bid:	

Signature, Name and Designation of  
EMD receiving officer along with office stamp

### **TECHNICAL SPECIFICATIONS**

- 01 All hardware items such as screws, G.I wires etc. Which are essentially required for completing on item as per specification will be deemed to be included in the item even when the same have not been specifically mentioned.
- 02 All hardware materials such as nuts/bolts/screws/washers etc to be used in the work shall be zinc/cadmium plated iron.
- 03 Any conduit which is not be wired by the contractor shall be provided which G.I fish wire for wiring by the same other agency subsequently. Nothing extra shall be paid.
- 04 While laying conduit, suitable junctions' boxes shall left for pulling the wires.
- 05 Copper wire shall be FRLS PVC insulated multi-stranded conductors. Termination of multi stranded conductors shall be done using crimping type thimbles at both ends. Nothing extra shall be paid for the same.
- 06 The makes of material have been indicated in the list of acceptable makes. No other makes will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer in charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, in not as per specification.
- 07 The proof of purchase in the form of invoice /cash/memo, of all the major components such as cables, wires, transformer, fittings, MCB DB's Geysers, exhaust fans etc. Shall have to produce by contractor at the time of final bill or as and when demanded by the departments.
- 08 Test report of all the XLPE insulated PVC sheathed armoured power cables used at site of work shall have to be submitted by the contractor at the time of submission of final bill.
- 09 Where switches/sockets/telephones outlet are to be , the same shall be of only make.
- 10 The MCB distribution boards shall be factory fabricated in the manufacturer of the MCB's of any of the makes specified and the same shall be duly pre-wired in the works. The board shall be brought to site in ready for installation condition. The MCBs and the MCB distribution board shall be of the same make.
- 11 The earthing shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
- 12 All fitting/fans will be earthed as per specification, proper earthing is to be done.

### **ADDITIONAL SPECIFICATIONS AND CONDITIONS (INTERNAL E.I)**

1. All the material and equipment supplied by the contractor shall be new i.e. date of manufacturing of material shall not be more than 6 months from the date of delivery at site. They shall be of such design, size and material as to satisfactorily function under the rated condition of operation and to withstand the environmental conditions at site. Only quality materials of reputed make will be used in the work.
2. All the electrical works shall be carried out in accordance with the provisions of IE Rules/Act as amended up to date, Central Electricity Authority regulations as amended up to date, National Electric Code as amended up to date, National Building Code as amended up to date, BIS Standards as amended up to date.
3. The works shall also conform to relevant BIS Codes of Practice (COP) for the type of works involved.
4. Materials to be used in work shall be ISI marked, whenever ISI marked materials are available.
5. In all the electrical installation works, relevant safety code of practice shall be followed as per CPWD manuals as applicable.
6. Good workmanship is an essential requirement to be complied with. The entire electrical work shall conform to sound engineering practice and should strictly follow the CPWD specifications.

7. The contractor shall be a licensed electrical contractor of appropriate class suitable for execution of electrical works. He shall engage suitably licensed and skilled workmen of various categories (in compliance to clause-3 of Central Electricity Authority as amended up to dated, for execution of work supervised by supervisors/engineers appropriate qualification and experience to ensure proper execution of work. They will carry out instructions of Engineer-in-charge during the progress of work.
8. Electrical installation shall be carried out under the supervision of a person holding a certificate of competency issued by the appropriate government. The workmen shall also hold the appropriate certificate of competency issued by appropriate government.
9. The panel manufacturer should be minimum CPRI approved.
10. The materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period will be for a period of 12 months from the date of completion.
11. All the material shall be accompanied with manufacturer test certificate, acceptance test certificate, guarantee/warranty certificate, installation, testing and commissioning manual etc.
12. The work shall be carried out strictly in accordance with CPWD specification for electrical work Part-I internal 2014 and 1995 (external) as amended up to date and in accordance with Indian electricity Rules 1956, Indian electricity Act, 1910 as amended up to date and as per instructions of the Engineer-In-Charge including as below and nothing will be paid extra.
13. All materials to be used on this work by the contractor shall be got approved from the Engineer-In Charge and department. Has right to inspect the materials at manufacturer place before installation at site.
14. The work shall be carried out according to approved drawing/details which shall be subsequently issued to the contractor for execution of work and as per instructions of the Engineer-In-Charge who will have the right to change out the layout as per requirement at site and the contractor shall not have any claim due to change in layout.
15. All damages done to the buildings, roads, pathways, floors, wall during the execution of electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-In-Charge. Any expenditure incurred by the Engineer-In-Charge about recovery shall be the final.
16. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-In-Charge. The programme of the electrical work is to be coordinated in accordance with the building work and no claim for idle labor will stipulate in the tender, electrical work shall have to be completed within NA days of the completion of the civil work.
17. All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris. Similarly, any rejected materials should be immediately cleared off from the site by the contractor.
18. Issue of materials to the contractor wherever stipulated, shall be according to the requirement at site from time to time depending upon the progress of the work.
19. Cement for this bonafied work is to be arranged and used by the contractor himself and nothing extra will be paid on this account.
20. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-In-Charge and to comply with the remarks.
21. The size of conduit and wiring shall be got approved from the Engineer-In-Charge before taking up to the execution.
22. The contractor shall make his own arrangement at his own cost for electrical/general tools and plants required for the work.

23. Main board and main distribution board: The work shall be carried out according to the drawing /details as approved by the Engineer-In-Charge. The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all the interconnections etc.
24. No central/state sale tax/VAT/Contract tax/excise duty/GST etc. Shall be separately paid by the department. The rates should be inclusive of all taxes and duties (exclusive of service tax) Deduction of contract tax at source shall be made while releasing payment through running/final bill as applicable. A certificate specifying the rates and amount of deduction shall however to be issued. No form –D 31/32 (road permit) shall be issued by the department. The road permit shall be arranged by the tendered by the tenderer on his own.
25. The entire installation shall be at the risk and responsibility of the contractor shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However, there is any delay in construction from the department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-In-Charge which shall be binding on the contractor.
26. No withstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative deemed to be included shall be provided by the contractor at extra at extra cost.
27. The connection interconnection, earthing and inter earthing shall be done by the contractor wherever required and nothing extra shall be paid on this account.
28. Some of the items of the work, if already executed: on the case the successful tenderer shall require shall be used by the contractor. The recovery will made for these items as accepted rate of other agencies.
29. Nothing extra shall be paid for :- a) Inter connection with thimbles /wires /tapes etc.
30. The competent authority reserve to himself the right of accepting the whole or any part of the quotation shall be bound to perform the rate quoted.
31. The contractor/firm shall provide 5 years warranty certificate for LED lights (i.e.,street/flood light).
32. The contractor/firm shall submit warrant certificate of all electrical appliances used in work before finalizing of bill.
33. All relevant codes as per electricity rules for execution of work will be followed.
34. The incomer/distribution locations should be marked on the panel. No charges will be paid to contractor in this regard.
35. All the electrical fitting material used should follow ISI specifications & conforms BIS (Bureau of Indian standards) & make in India product shall be on coverage.
36. The tender may be rejected at any time without assigning any reasons.
37. Test certificate of UG cable as well as GST bill to be produced by the contractor before final bill. Make also got approved from Engg-in-charge.
38. Before completion of defect liability period of one year, the main contractor has to submit Security Deposit of 5% of the price quoted by him for SITC of LED fittings for the remaining 4 years warranty period in acceptable form i.e. FDR / Bank guarantee.

**For attention of contractor: -**

**The contractor regarding payment queries of the bill has to contact the Admin Officer of the establishment. The contractor should not contact with the Engineering Branch as well as DDO. He should raise his query with the admin officer only. Admin Officer of the establishment should take the details regarding payment from the DDO of the concerned establishment and reply the query of the contractor on the basis of details submitted by the DDO.**

## SECTION-A

### SCOPE OF WORK & TECHNICAL SPECIFICATIONS

1. Each 01 KWp solar PV power plant systems shall be complete with following items:

Solar PV modules to achieve total capacity of 01 KWp (minimum 330-Watt solar panel)- Made in India, **Mono Crystalline silicon solar cells as per latest Ministry of New and Renewable Energy (MNRE) specifications/ relevant Bureau of Indian standard codes (BIS) specifications/latest edition of IEC SPECIFICATIONS.** Minimum cell efficiency shall be as per latest MNRE standard. Make of module should be as per MNRE approved vendor list. (ALMM makes of MNRE).

The PV modules must conform to the latest edition of any of the following IEC/ equivalent BIS Standards for PV module design qualification and type approval:

#### (A) TECHNICAL SPECIFICATION SOLAR PHOTO VOLTAIC MODULES & CELLS Mono//Multi crystalline Silicon Solar Photo-voltaic Modules:

1.1. The PV modules must confirm to the latest edition of any of the following IEC//equivalent BIS standard for PV module design qualification and type approval. Crystalline silicon terrestrial PV modules: IEC 61215 / IS 14286

1.2. In addition, the module must confirm to IEC 61730 part-1 requirements for construction & part-2 requirements for testing, for safety qualification or equivalent IS/BIS manufacturer should submit BIS certificate of module.

1.3. If PV modules to be used in a highly corrosive atmosphere (coastal areas, etc.) must qualify Salt Mist Corrosion Testing as per IEC61701/IS61701.

#### 1.0. IDENTIFICATION AND TRACEABILITY

Each PV module must use a RF identification tag (RFID), which must contain the following information.

- (i) Name of the manufacturer of PV module
- (ii) Name of the manufacturer of solar cells
- (iii) Month and year of the manufacturer (Separately for solar cells and module)
- (iv) Country of origin (Separately for solar cells and module)
- (v) I-V curve for the module (Separately for solar cells and module)
- (vi) Peak wattage,  $I_m$ ,  $V_m$  and PF for the module
- (vii) Unique serial No and model No of the module
- (viii) Date and year of obtaining IEC PV module qualification certificate
- (ix) Name of the test lab issuing IEC certificate
- (x) Other relevant information on traceability of solar cells and module as per ISO 9000 series. RFID shall be placed inside or outside of each solar module laminate and must be capable to withstand environmental conditions as per latest guideline of MNRE, Govt of india.

**NOTE:1. Only indigenously manufactured PV modules should be used in Solar PV power Plants under this scheme.**

### (C ) TECHNICAL SPECIFICATION OF TUBULAR BATTERY -

The batteries must be confirming to the latest edition of any of the following IEC / equivalent BIS standard//MNRE guidelines for design qualification and type approval. IEC 61427 / IS 1651 / IS 133369/IS 15549. Make of batteries should be as per MNRE approved vendor list

- a) 75% of the rated capacity of the battery should be between fully charged & load cut off conditions.
- b) The minimum rating of battery voltage (V) and Ah at C/10 rate of discharge.
- c) The General specifications shall be as under.
  - (A) The cells shall be capable of deep discharge and frequent cycling with long maintenance intervals and high columbic efficiency. Automotive or car batteries shall not be accepted.
  - (B) The self-discharged rate of the battery bank or individual cell shall not exceed four (4) percent per month.
  - (C) The cells include explosion proof safety vents.
  - (D) The cells shall include the required number of corrosion resistant inter cell required chemicals electrolyte packed in separate containers. Full instructions and technical details shall be provided for electrolyte filling and battery recharging at site for the first time.
  - (E) The cells shall preferably be supplied in dry charged condition, complete with all required chemicals electrolyte. Full instructions and technical details shall be provided for electrolyte filling and battery recharging at site for the first time.
  - (F) If the cells are supplied in uncharged conditions, then the supplier shall provide full instructions for first time charging including, but not limited to, the following:

A check list of all items required:

Minimum specification with possible alternatives of the required battery charger for the first time charging.

- (G) Suitable no of corrosion resistant and anti-acid proof storage racks shall be supplied to accommodate the cells tester and other accessories. The rack design shall be such that minimum space is required, without any way obstructing the maintenance requirements. For metallic racks, standard specified for control panel enclosures and other metallic shall govern.
- (H) All the connectors should be insulated except for the end portion.
- (I) All technical and other details pertaining to the storage cells shall be supplied including but not limited to the following: -
  - 1) Rated voltage and ampere hour capacity of each storage cell as the rated discharge rate.
  - 2) Permitted maximum DOD.
  - 3) Self-discharge rate.
  - 4) Total no of storage cells in use.

### D) Battery Rack

Placement of battery should be such that maintenance of the battery could be carried out easily. The non- reactive acid proof material should be provided to cover the entire floor space covering the battery bank.

Battery rack should compulsorily be placed on the appropriate rubber pads to avoid the contact of wooden/metal racks with the floor, to protect wooden rack particularly from termite.

#### **E) EARTHING PROTECTION**

Each array structure of the PV yard shall be grounded/earthed properly as per IS:3043-1987. In addition, the lighting arrester/masts shall also be earthed inside the array field. Earth Resistance shall be tested in presence of the representative of BSF as and when required after earthing by calibrated earth tester. PCU, ACDB and DCDB etc. shall also be earthed properly.

Earth resistance shall not be more than 5 ohms. It shall ensure that all the earthing points are bonded together to make them at the same potential.

#### **F) Test Reports/Certificate**

Contractor shall submit the test certificate/reports for items /components from any of the NABL/IEC Accredited testing laboratories or MNRE approved test centres. The list of MNRE approved test centres will be reviewed and updated fromtime to time.

Type test certificates for all the tests specified for the factory built Solar PV modules, and the component parts shall be submitted by the contractor.

Contractor shall furnish copies of the test reports for approval before dispatch.

Two sets of copies of the compiled and approved test certificates shall be submitted to the BSF.

**LIST OF ACCEPTABLE MAKES SHALL BE FOLLOWED IF NOT MENTIONED IN THE  
SCHEDULE OF QUANTITY**

Sr. no	Items	Name of manufacturer
01	FRLS/FRLSH PVC insulated copper conductor single core cable for wiring ISI reputed marked	Havells/Finolex/standard/KEI/RR Kabel/ Polycab/Anchor/Plaza/MESCAB ISI reputed marked
02	XLPE insulated aluminium PVC insulated and PVC sheathed / XLPE power cable upto 11KV	Finolex/L&T/Havells/Grandlay/Polycab/KEI/ Standard/MESCAB / ISI reputed marked
03	GI pipe	Tata/Jindal(Hisar)/Prakash/Surya/ ISI reputed marked
04	MS conduit/c accessories ISI reputed marked	AKG/BEC/NIC/AST/BEG/Gupta/ ISI reputed marked
05	DWC pipe	Draline / ISI reputed marked
06	Copper plate & copper strip	ISI reputed marked
07	Energy meter	HPL/ABB/ L&T/HENSEL/ISI reputed marked
08	Paints	Assian/Burger/ISI reputed marked
09	Terminal blocks and connector	Elmex/Eszen/Connect well/Johnson/ ISI reputed marked
10	Compact air insulated rising mains	Legrand/Schneider/L&T/GE/ ISI reputed marked
11	MCB, MCBDB, RCBO's/RCCB	Schneider Electric/Legrand/L&T/Hager/ Seimens/Havells/standard/C&S/GE/ISI reputed marked
12	MCCB/Timer	Schneider Electric/Legrand/L&T/Hager/ Seimens/Havells/standard/C&S/ ISI reputed marked
13	SFU, FSU, HRC fuses, cable management system/DLP trucking	Schneider Electric/Legrand/L&T/Seimens/ Havells/ standard/ ISI reputed marked
14	Call bell/buzzer	Anchor/Havells/Panasonic/ Bajaj/ ISI reputed make
15	Selector switch/CT's	Kayee/Siemens/Bhartiya Cutler Hammer/L&T/Havells/ ISI reputed marked
16	Changeover switch	H-Elcon/Standard/L&T/Siemens/ Havells/ ISI reputed marked
17	LED lights/Tube light/Street light/Flood light	Havells/CG/Philips/Bajaj/ISI reputed make
18	Panel board/feeder pillar	Manufacturer have ISO 9001 certification/CPRI approved
19	Energy meter/Intelligent energy meter/Multifunctional	HPL/L&T/HENSEL/Anchor/Siemens/ISI reputed marked
21	PVC conduit i/c Accessories ISI reputed marked	Polypack/Precision/ Assian/Polycab/AKG/ Finolex/Anchor/ ISI reputed marked

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22	ACB	Siemens 3 WL/L&T U-Power Omega/Scheinder master pack/Legrand/ABB-cmax/ ISI reputed marked
23	Exhaust fan/ceiling fan	CG/Havells/Bajaj/ISI reputed make
24	PVC Loop out junction box	Gewiss, Hensel, sintex or any ISI Reputed make with similar specifications.
25	Feeder pillars/LT pane outdoor & Indoor/Joint box	CPRI approved manufactures
26	LED Post Top fitting	Phillips/ Crompton Greaves/ Havells
27	LED Street Light fitting	Phillips/ Crompton Greaves/ Havells
28	LED Street light with inbuilt solar panel & controller	Phillips/ Crompton Greaves/ Havells
29	Ornamental MS & CI Pole (Factory Finish)	Keselac Schreder-Ecopole3m ATG in GI with base plate/Valmont/ Wipro/ Phillips/ Crompton Greaves/Bajaj/ Paruthi Engineers Pvt. Ltd./Luster/ twinkle/Bajaj/Consoul.
30	Hot Dipped Galvanized Octogonal Pole (Factory Finish)	Valmont/ Wipro/ Phillips/ Crompton Greaves/ Bajaj/ Paruthi Engineers Pvt. Ltd/ Bajaj./ Surya/ Consoul./Vipin ST Poles
31	Polycarbonate Junction box/ Enclosure	Hensel/ Spelsberg/ Neptune-bals
32	XLPE insulated PVC Sheathed Alum. / Copper conductor Armored cable of 1.1 KV grade	Finolex/ RR Kabel/ Havells/ Polycab/ Paragon (Electron)/
33	Solar modules	UTL/Tata Power Solar/Vikram Solar/Adani Solar or equivalent MNRE approved
34	Solar Inverter	UTL/Luminous/Tata Power Solar/Vikram Solar Solar or equivalent ALMM/ MNRE approved
35	Battery	UTL/Exide/Luminous/Microtek

**Note: - The decision of the Engg-In-Charge in regard to use of any particular brand out of above-mentioned brands shall be final and binding to the contractor. No payment shall be made for such rejected material.**

### Schedule of work

**NAME OF WORK:** “Construction of 08 Bedded Mahila Barrack at BOP Jhinga of 77 Bn BSF under SHQ BSF Kolkata. ( SH. Providing of Electrical installation, service connection, fan, 1000 Wp Solar system and solar water heater with provision of LC).”

SN.	Description of item	Qty	Unit	Rate	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor in single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group B	58.0	Point	1362.00	78,996.00
2	Wiring for light point/ power plug with 2x 4 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, along with 1 No 4 sq.mm. FR PVC insulated copper conductor single core cable for loop earthing as required.	146.0	Mtr	373.00	54458.00
3	Wiring for circuit / submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. i) 2 x 1.5 sqmm + 1 x 1.5 sqmm earth wire	150.0	Mtr	267.00	40050.00
4	Wiring for circuit / submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. i) 2 x 10 sqmm + 1 x 6 sqmm earth wire	60.0	Mtr	621.00	37260.00
5.1	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. (make Crabtree/Havells/Legrand) i) 5/6 amps switch	5.0	Each	121.00	605.00
5.2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. (make Crabtree/Havells/Legrand) ii) 3 pin 5/6 amps socket outlet	5.0	Each	136.00	680.00
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos 3 pin 5/6 A modular socket outlet and 2 nos, 5/6 A modular switch, connections etc. as required. (for light plug to be used in non residential buildings)	2.0	Each	757.00	1,514.00
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	10.0	Each	545.00	5,450.00
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	9.0	Each	659.00	5,931.00
9	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	10.0	Each	402.00	4,020.00
10	Supplying and fixing 3 pin, 5 amps ceiling rose on the existing junction box/ wooden block including connection etc as required.	25.0	Each	104.00	2600.00
11	Supplying and fixing PVC batten/angle holder including connection etc as required	5.0	Each	132.00	660.00
12	Extra for fixing the louvers/ shutters complete with frame for an exhaust fan of all sizes.	3.0	Each	260.00	780.00
13	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and	3.0	Each	807.00	2,421.00

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	fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.				
14	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) i) 16 way, Double door	2.0	Each	3367.00	6,734.00
15	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required. i) Single pole	20.0	Each	285.00	5,700.00
16	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. i) 63 amps	2.0	Each	569.00	1,138.00
17	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2.0	Set	7658.00	15,316.00
18	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. wire in 15 mm dia G.I. pipe from earth electrode including connection with GI thimble excavation and re-filling as required.	15.0	Mtr	313.00	4,695.00
19	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	16.0	Mtr	84.00	1,344.00
20	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required. (a) 3.5 x 35 Sqmm	2.0	Each	437.00	874.00
21	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required. (a)63 mm dia (OD-63 mm & ID-51 mm nominal)	20.0	Mtr	136.00	2720.00
22	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2.0	Set	8351.00	16,702.00
23	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	6.0	Each	609.00	3,654.00
24	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	10.0	Each	139.00	1,390.00
25	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	60.0	Metre	148.00	8,880.00
26	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	30.0	Metre	238.00	7140.00
27	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	2.0	Each	140.00	280.00

JE(Elect)

AE(Elect)

EE (Elect)

28	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	15.0	Metre	221.00	3,315.00
29	Providing and fixing of 300 mm sweep turbo force double ball bearing medium speed, HD Exhaust fan, single phase, 240volt 1400 rpm in existing opening, including making good the damage, connection, testing, commissioning etc as required. Make: Crompton/ Havells / Orient / Usha.	3.0	Each	2721.00	8,163.00
30	Providing, Installation, testing and commissioning of 1200 mm sweep, ceiling fan suitable for 220 V AC, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. Make: Havells/ Crompton/ Orient / Usha.	10.0	Each	2727.00	27,270.00
31	Supplying and Fixing of Wall Bracket, Decorative wall light fixture made up of Polycarbonate, suitable for 9 W retrofit LED lamp B22 base including 9 watt lamp and connection etc as required. Make: Havells (City-2)/ Crompton/ Bajaj/ Philips.	9.0	Each	1,339.00	12,051.00
32	Supplying and fixing of 20/22 W LED Batten, 4 feet batten type 6500k/Led batten decorative ultra slim square profile LED lighting fixture with extruded polycarbonate, environmental friendly, energy efficient ready to use pack including connection as required. Make: Havells/ Crompton/ Bajaj/ Philips .	11.0	Each	479.00	5,269.00
33	Supplying and fixing of 12 Watt ,6500 K surface mounted LED panel with premium diffuser to ensure glare free & even light distribution including connection etc as required. Make: Havells/ Crompton/ Bajaj/ Philips.	9.0	Each	803.00	7,227.00
34	Providing and Installation of street light luminaries with 45 watt high power LED, best design & robust heat sink with class leading IP, IK & surge protections for long lasting performance including suitable size GI pipe bracket size 1 Mtr with suitable angle in existing wall/ ceiling (bracket with nuts & bolts/ bricks works) etc as required. Make: Havells/ Crompton/ Bajaj/ Philips.	6.0	Each	6043.00	36,258.00
35	Supplying and fixing of 10 Watt Led type Bulk head light designed with beautiful aesthetic using new generation technology in LED to enliven outdoor and indoor area including connection etc as required. Make: Havells/ Crompton/ Bajaj/ Philips .	2.0	Each	2029.00	4,058.00
36	Supplying and fixing of 9 W LED, Lamp in existing PVC holder. Make: Havells/ Crompton/ Bajaj/ Philips.	5.0	Each	267.0	1,335.00
37	Supplying and fixing of 9 W LED Mirror Light, 2 feet, 6500k Decorative ultra slim round profile LED lighting fixture with extruded polycarbonate, environmental friendly, energy efficient ready to use pack etc as required. Make: Havells/ Crompton/ Bajaj/ Philips.	3.0	Each	423.00	1,269.00
38	Supplying & laying of one number XLPE insulated and PVC sheathed Armoured power cable of 1.1 KV grade of size 3.5 x 35 Sqmm, direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering conf to IS:7098 part-1 of make Havells/ Polycab/ Finolex/ Gloster / KEI)	50.0	Mtr	911.00	45,550.00
39	Supplying & laying of one number XLPE insulated and PVC sheathed Armoured power cable of 1.1 KV grade of size 3.5 x 35 sqmm, including supplying and fixing of 50 sqmm dia GI pipe as required conf to IS:7098 part-1 of make Havells/ Polycab/ Finolex/ Gloster)	12.0	Mtr	1083.00	12,996.00
40	Supplying and laying of one number PVC insulated and PVC	10.0	Mtr	768.00	7,680.00

	sheathed / XLPE power cable of 1.1 KV grade of 35 sqmm size in the existing masonry open duct as required.				
41	Supplying, installation, testing and commissioning of factory made wall mounting panel having size 600 mm x 450 mm x 300 mm deep made of 2 mm thick CRCA sheet and powder painted having 100 Amps, 4 strip insulated aluminum bus bar and to accommodate following accessories (i) Switch Disconnecter Fuse, 100 Amp, TPN- 01 No Make L&T/Havells/C&S (ii) MCB 63 Amp, SPN - 3 Nos Make L&T/Havells/C&S (iii) LED Phase indicating lamp (Red, Yellow, Blue), arrangement of i/o cable, earthing stud, locking arrangement and internal wiring with 4 sqmm FRLS PVC copper wire etc as required and as per the direction of Engineer in charge.	1.0	Set	23731.00	23,731.00
42	Solar modules using 335/340 Wp or above as suitable, 24 V DC Mono- Crystalline modules. Total plant capacity 1 Kwp. UTL/Tata Power Solar/Vikram Solar/Adani Solar or equivalent ALMM/MNRE approved with latest specifications.	3.00	Each	13,840.00	41,520.00
43	24 V, 1 KVA or above as suitable, solar hybrid inverter MPPT/PWM based make UTL/Luminous/Tata Power Solar/Vikram Solar Solar or equivalent MNRE approved/ BIS approved.	1.00	Each	24,915.00	24,915.00
44	12 V, 100AH c10 rating battery with 5 years warranty. Make: Exide / Luminous / Microtek / or meeting requisite specification BIS approved.	4.00	Each	8,305.00	33,220.00
45	Module Mounting structure made of suitable size of MS angles and pipe capable to mount 03 nos panel with foundation complete ect as required.	1.00	set	16,610.00	16,610.00
46	Supplying of fixing of Array junction box with DC SPD Type-II and string fuses/MCBs complete ect as required.	1.00	Each	9,966.00	9,966.00
47	Supplying and drawing of 2 C x 4 Sqmm Solar DC cable 1.1 KV Grade XLPO insulated copper (Black & Red) make KEI/Polycab/Finolex/Havells.	40.00	Mtr	77.80	3,112.00
48	Supplying and drawing of 2 C x 6 Sqmm Solar DC cable 1.1 KV Grade XLPO insulated copper (Black & Red) make KEI/Polycab/Finolex/Havells.	50.00	Mtr	112.80	5,640.00
49	Transportation of equipment to BOP installation & maintenance charges	1.00	Lot	15,000.00	15,000.00
50	Supply, Installation, Testing & Commissioning of 500 LPD Solar Water Heating System ,Stand frame : Galvanized powder coated with 27 degree, Vacuum tube size : 58/1800 mm, Outer tank diameter : 550 mm, Inner tank diameter : 450 mm, Tank capacity : 500 Ltr , Temperature : 65 degree C to 85 degree C, Tank insulation : PUF 50 mm (Polyurethane foaming), Inner tank material : stainless steel with ceramic coated, Outer tank material : Galvanized powder coated/ stainless steel, Method of welding : MIG welding technology, Type of grommets : Silicon washer, Type of circulation : Thermo siphon, Electrical back-up : 2 KW, Type of fasteners : Stainless steel/ Galvanized, Collectors should confirm to BIS and approved as per MNRE specifications with latest specification, Complete with extra suitable supply tank i/c Steel/Iron stand etc as required (either flat plate collector type) (Quoted rates should include the cost of installation, testing and commissioning of the complete system at site and all taxes including in rates nothing will be paid extra )	1	Each	109762.00	1,09,762.00
51	Structural steel work riveted bolted or welded in built up section, truces and frame work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	135	Kg	117.35	15,842.25

JE(Elect)

AE(Elect)

EE (Elect)

52 .1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold-water supply, i/c all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. (i) 25 mm nominal outer dia pipes	35	Mtr	401.55	14,054.25
52 .2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold-water supply, i/c all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall (i) 20 mm nominal outer dia pipes	40	Mtr	335.00	13,400.00
53	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: (i) 25 mm nominal bore	1	Each	464.05	464.05
54	Providing and fixing brass stop cock of approved quality: (i) 20 mm nominal bore	4	Each	379.20	1,516.80
55	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (500 ltr x 1nos = 500 ltr tank)	500	Ltrs	11.00	5,500.00
	<b>Total B</b>				<b>8,18,686.35</b>
				<b>Say Rs.</b>	<b>8,18,686.00</b>

(Rupees Eight lakh eighteen thousand six hundred and eighty six) only.

**Approved/Not-approved**

**Executive Engineer (Elect)/DC(Elect)  
FTR HQ BSF SB, Kolkata**