



BORDER SECURITY FORCE

E - Tender Documents

NIT No.	26/NIT/AE(E)/SHQ-BKR/2020-21
NAME OF WORK	PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.
Estimated cost	₹ 95730/-
Earnest Money	₹ 1915/-
Security Deposit	2.5% of Tendered amount.
Performance Guarantee	5% of Tendered amount.
Time allowed for completion of the work	30 Days.
Date and time of opening of E-tender	at 1230 Hrs

Certified that this tender paper contains **35 (Thirty five) only** pages including cover.

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BORDER SECURITY FORCE
Notice Inviting e-Tenders

The **Assistant Engineer (Electrical)**, SHQ BSF Bikaner invites online **percentage** rate e-tenders on behalf of President of India from approved and eligible contractors of CPWD and those of appropriate list of M.E.S, BSNL, Railways and Rajasthan State P.W.D. dealing with electrical works for the following work:-

NIT NO. 26/NIT/AE(E)/SHQ-BKR/2020-21

NAME OF WORK PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.

- Estimated cost : ₹ 95730/-
1. Earnest money : ₹ 1915/-
 2. Period of Completion : 30 Days
 3. Last date & Time of Submission of bid : Upto 1230 PM on
 4. Online opening date and time of eligibility criteria and bid: at 1230 PM on
 5. The bid forms and other details can be obtained from the website www.eprocure.gov.in .

**Assistant Engineer (Electrical),
SHQ BSF BIKANER**

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

(Application for inviting open tenders)

1. The **Assistant** Engineer (Electrical), SHQ BSF Bikaner invites online **percentage** rate e-tenders on behalf of President of India from approved and eligible contractors of CPWD and those of appropriate list of M.E.S, BSNL, Railways and Rajasthan State P.W.D. dealing with electrical works for the following work: -

SL. No.	NIT No.	Name of Work & Location	Estimated Cost put to tender	Earnest Money	Period of Completion	Last date & Time of submission of e-Tender	Time & date of opening of Tender
1	26/NIT/AE(E)/SHQ -BKR/2020-21	PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.	Rs. 95730/-	Rs. 1915/-	30 Days	Up to 1230 PM	at 1230 PM

- 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.
- Information and instructions for bidders posted on website shall form part of bid document.
- The tender document consisting plan, specifications, the schedule of quantities of various types of items to be supplied 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 <http://www.eprocure.gov.in> free of cost.
- 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.
- On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- Contractor can upload documents in the form of JPG format and PDF format.
- Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. 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.
- The technical & commercial bid shall be opened first on due date and time as mentioned above and financial bid shall be opened only of those bidders whose other documents scanned and uploaded are found in order.
- The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
- The tenderer should also read the General Conditions of Contract for CPWD Works 2014 amended upto correction slip no. DG/CON/293 dated 01/07/2016 which is available as Govt. of India Publications.
- Tenders with any condition including that of conditional rebates in the tender document shall be rejected forthwith.
- GST Sales tax/VAT, purchase tax, turn over tax, Excise duty, work contract tax or any other tax on materials as applicable shall be paid by the contractor himself. The contractor shall quote his rates considering all such taxes.

14. Recording the hindrance on part of contractor in the hindrance register is mandatory which shall be reviewed in by EE (E) office at each running account bill. The net delay shall be worked out after taking into cognizance of hindrances on part of department and contractor both.
15. on the basis of their resources and methodology at the time of tendering as indicated in the table under clause of "Schedule-F" otherwise it will be assumed that the tenderer is agreeable to milestones mentioned in table.

Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour **DIG SHQ BSF BIKANER**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission . **The original EMD should be deposited in office of DIG SHQ BSF BIKANER within a week of opening of financial bid physically or by post in the office of DIG SHQ BSF BIKANER by lowest bidder.**

16. **List of Documents to be scanned and uploaded within the period of bid submission: -**
 - I. Treasury Challan / Demand Draft / Pay order or Banker's Cheque / Deposit at Call Receipt /FDR/Bank Guarantee of any Scheduled Bank against **EMD**.
 - II. Certificate of Firm's Enlistment / registration of CPWD, M.E.S, BSNL, Railways and Rajasthan State P.W.D. dealing with electrical works of buildings.
 - III. **Valid Electrical Contractor license.**
 - IV. Certificate of Registration for GST.
 - V. Undertakings from tenderers for "acceptance of tender conditions" and that "the Physical EMD and other eligibility documents shall be deposited by me/us with the "DIG SHQ BSF BIKANER" in case I / we become the lowest bidder within a week of opening of financial bid otherwise department may reject the bid and also take action to debar me /us from tendering in BSF and Enlistment Department may also take action against me / us to debar me /us from tendering in Department."

AE(E)/ Assistant Engineer (Electrical)
SHQ BSF BIKANER

CPWD 6

**GOVERNMENT OF INDIA
BORDER SECURITY FORCE
NOTICE INVITING TENDER**

1. **The Assistant Engineer (Electrical), SHQ BSF BIKANER** invites online **percentage** rate e-tenders on behalf of President of India from approved and eligible contractors of CPWD and those of appropriate list of M.E.S, BSNL, Railways and Rajasthan State P.W.D. dealing with electrical works for the work **“PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER..**The enlistment of the contractors should be valid on the last date of submission of bids. In case only 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. **95730/-** this estimate, however, is given merely as a rough guide.

1. Agreement shall be drawn with the successful tenderers on prescribed Form No. **CPWD 7/8** which is available as a Govt. of India Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
2. The time allowed for carrying out the work will be **30 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 tender documents.
3. The site for the work is available.
4. The tender documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions Of Contract Form can be seen from the website <http://www.eprocure.gov.in> free of cost.
5. 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 tender as notified.
6. 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 tender as notified.
7. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour **DIG SHQ BSF BIKANER**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission . A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs.20 lac, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee of any scheduled bank having validity for 6 months or more from the last date of receipt of bids which is to be scanned and uploaded by intending bidders.

Copy of Enlistment Order and other documents as specified in the e tender notice shall be scanned and uploaded the e- tendering website within the period of bid submission. **However, certified copy of all the scanned and uploaded documents as specified in this tender shall have to be submitted by the lowest bidder along with physical EMD within a week of opening of financial bid physically or by post in the office of DIG SHQ BSF BIKANER.**

Online bid documents submitted by intending bidders **shall be opened only of those bidders, whose documents scanned and uploaded are found in order.**

The bid submitted shall be opened at on _____ at 1230 PM .

8. The bid submitted shall become invalid if:
 - I. The bidder is found ineligible.
 - II. **The bidder does not deposit original EMD and other documents as specified in e-tender with the office of DIG SHQ BSF BIKANER within a week of opening of financial bid.**
 - III. **The bidders do not upload all the documents and undertaking as stipulated in the bid document.**

- IV. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted in the office of tender opening authority.
 - V. 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.
9. The contractor whose tender is accepted, will be required to furnish **performance guarantee** of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of ~~cash (in case guarantee amount is less than Rs. 10000/-)~~ or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F'. including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.
10. The description of the work is as follows:
“PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.”. Intending tenders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 tender. A tenderers 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 tenderers 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 tender by a tenderers 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.
11. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders 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.
12. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
13. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the bidders shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to tender for works in the **BSF FTR** (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Senior 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 **Border Security Force 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.
15. 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 previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time

to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.

16. The tender for the works shall remain open for acceptance for a period of **ninety (90) days** from the date of opening of financial bid. If any tenderer withdraws his/her tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender 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 tenderers shall not be allowed to participate in the retendering process of the work.
17. This notice inviting Tender shall form a part of the contract document. The successful tenderers/contractor, on acceptance of his tender by the Accepting Authority shall within 30 Days from the stipulated date of start of the work, sign the contract consisting of: -
 - a. The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b. Standard C.P.W.D. Form 7/8 (GCC for CPWD works 2014) amendments upto date. (Available on CPWD website).

**Assistant Engineer (Electrical),
SHQ BSF BIKANER**

GOVERNMENT OF INDIA
BORDER SECURITY FORCE
CPWD- 8

Percentage Rate Tender & Contract for Works

Tender for the work of:- PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.

- (i) E-Tender to be submitted/uploaded online by 1230 Hours on _____ to DIG SHQ BSF BIKANER on the website www.eprocure.gov.in
- (ii) Online tender to be opened at 1230 hours on _____ in the office of DIG SHQ BSF BIKANER, Rajasthan

T E N D E R

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

I/We hereby tender for the execution of the work specified for the President of India as per time schedule of mile stone(s) and 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 clause 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.

I/We agree to keep the tender open for **Ninty (90) days** from the **date of opening of tenders** and not to make any modifications in its terms and conditions.

A sum of **₹ 1915/-** is hereby forwarded in cash/receipt treasure challan/deposit at call receipt of a scheduled bank/ fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of tender form. Further, I/we agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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 tendering 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”

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

Dated _____

Signature of Contractor

Witness: _____

Address: _____

Postal Address

Occupation: _____

ACCEPTANCE

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

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

i)

.....

ii)

iii)

For & on behalf of the President of India.

Dated.....

Signature

Designation

SCHEDULES

SCHEDULE 'A'

Schedule of quantities : As per schedule of work attached.

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
NO MATERIALS SHALL BE ISSUED BY THE DEPARTMENT. ALL MATERIALS AS REQUIRED TO CARRIEDOUT WORK SHALL BE ARRANGED BY THE CONTRACTOR.				

SCHEDULE 'C'

Tools and plants to be hired to the contractor.

Sl. No.	Description	Hire charges per day	Place of Issue
1	2	3	4
NO TOOLS & PLANTS SHALL BE ISSUED BY THE DEPARTMENT. ALL TOOLS & PLANTS AS REQUIRED TO CARRIEDOUT THE WORK SHALL BE ARRANGED BY THE CONTRACTOR			

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any : As per additional specifications, terms and conditions, acceptable makes of materials attached with schedule of work.

SCHEDULE 'E'

Reference to General Conditions of contract i/c CON circular : GCC-2014 CPWD Form-8 as modified and amended upto date of submission of tender.

Name of Work **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER..**

Estimated Cost of work : Rs. 95730/-
 Earnest money: ₹ 1915/-
 Performance Guarantee: 5% of Tendered Value
 Security Deposit: 2.5 % of Tendered Amount

SCHEDULE 'F'

General Rules & Directions:

CPWD Specifications 2014

Officer inviting tender

AC (E) / Assistant Engineer (E), SHQ BSF Bikaner

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 The DC (E) / Executive Engineer (E), SHQ BSF Bikaner
- 2(viii) Accepting Authority The DC (E) / Executive Engineer (E), SHQ BSF Bikaner
- 2(x) Percentage on cost of materials and labour to cover all overheads and profits 15%
- 2(xi) Standard schedules of Rates DSR-2019 (E&M) & Market Rates
- 2(xii) Department Border Security Force

9 (ii) Standard CPWD Contract Form

GCC 2014, CPWD Form 7/8 modified & Corrected up to last date of submission of bid.

Clause 1

- i) Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance -30 Days
- ii) Maximum allowable extension with late fee @0.1% per day of Performance Guarantee amount beyond the period provided in (i) above **30 Days**

Clause 2 Authority for fixing compensation under clause 2. **SE (ELECT), BSF.**

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 from the date** of issue of letter of acceptance

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

TABLE OF MILE STONE(S)

S. NO.	DESCRIPTION OF MILESTONE (PHYSICAL)	TIME ALLOWED IN DAYS (FROM THE DATE OF START)	AMOUNT TO BE WITH-HOLD IN CASE OF NON-ACHIEVEMENT OF MILESTONE.
----- NA -----			

Time allowed for execution of work : **30 Days**

Authority to Decide:

i) Extension of time		DC (E) / EE (E) FTR HQ BSF, Jodhpur.
ii) Rescheduling of mile stones		DC (E) / EE (E) FTR HQ BSF, Jodhpur.
iii) Shifting of date of start in case of delay in handing over of site		DC (E) / EE (E) FTR HQ BSF, Jodhpur.
Clause 6, 6A	Clause applicable – (6 or 6A)	Clause 6
Clause 7	Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	Rs. 95730/-.
Clause 7A	No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge	Not Applicable
Clause 10A	List of testing equipment to be Provided by the contractor at site lab	Not applicable
Clause 10B(ii), (iii)	Whether clause 10-B(ii) and 10-B (iii) shall be applicable	No
Clause 10C	Component of labour expressed as percent of value of work	25%
Clause 10CA	Whether clause 10CA shall be Applicable.	Not applicable
Materials covered under this clause	Nearest material for which All India Wholesale Price Index is to be followed	Base price of all material covered under Clause 10 CA
		Not Applicable
Clause 10CC	Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column :	NOT APPLICABLE
Schedule of component of cement, steel, other materials, Labour etc. for price escalation:		
CLAUSE 10 CC		NOT APPLICABLE
Component of cement expressed as percent of total value of work.		'Xc' Nil %
Component of steel expressed as percent of total value of work.		'Xs' Nil %
Component of civil (except cement & steel) / Electrical construction materials expressed as percent of total value of work.		'Xm' Nil %
Component of labour expressed as percent of total value of work.		'Y' Nil %
Component of P.O.L. expressed as percent of total value of work.		'Z' Nil %
Clause 11	Specifications to be followed for execution of works	C.P.W.D. General Specification for electrical work Part-I (internal) 2013 C.P.W.D., Part-II (external 1995), Part-VII 2013 (DG Set) and amended upto last date of submission of bid.

NOT APPLICABLE

Clause 12 – Type of work (Original Work) OR Maintenance work i/c upgradation, aesthetic, special repair, addition/ alteration)

12.2 & 12.3 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for electrical work. **30% on individual items**

12.5 Deviation limit beyond which clauses 12.2 and 12.3 shall apply for foundation work. **-----Not Applicable-----**

Clause 16 Competent Authority for deciding reduced rates. **SE (ELECT), BSF.**

Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site. **As per requirement at site and as per instruction of Engineer-in-charge.**

Clause 25 Constitution of Dispute Redressal Committee (DRC)

Chairman

DIG BSF as nominated by IG FTR HQrs.

Member

DC FTR HQ JDR

Member

DC / EE (E)

Account Officer detailed by FTR IG

Clause 36 (i) 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	Elect.	Principal Technical Representative (Project Planning / Site / billing Engineer)	2Years	1 No.	15,000/-	Fifteen thousand Only p.m. per person
OR							
	Diploma Engineer	Elect.	Principal Technical Representative (Project Planning / Site / billing Engineer)	5Years	1 No	15,000/-	Fifteen thousand Only p.m. per person

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

Clause 42 :- N/A.

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION: -

S NO	Description	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond permissible variation
NOT APPLICABLE			

INTEGRITY PACT BSF

To,

.....,

.....,

.....

Sub: **26/NIT/AE(E)/SHQ-BKR/2020-21** for the work: **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.**

.Dear Sir,

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

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

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

Yours faithfully

Assistant Engineer

INTEGRITY PACT BSF

To,

Assistant Engineer,
SHQ BSF BIKANER

Sub: Submission of Tender for the work of: **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.**

Dear Sir,

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

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

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

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

Yours faithfully

(Duly authorized signatory of the Bidder)

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 AC (E)/ **Assistant Engineer** (Elect) BSF (Hereinafter 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.) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for

(Name of work) : **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER..**

hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

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

Article 1: Commitment of the Principal/Owner

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

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

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal/Owner shall 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 participate 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 days' 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, BSF.

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 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 (hereinafter called "the Bank") are bound unto (Name and Division of **Assistant Engineer**) (Hereinafter 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 thusday of20..... 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 substantiate 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.

ADDITIONAL TERMS AND CONDITIONS AND TECHNICAL SPECIFICATION

1. The work shall be generally carried out in accordance with tender specifications and the following specifications.
 - a) CPWD General Specification for electrical work 2013 Internal – Part- I & External-II 1995 as amended up to date.
 - b) CPWD General Specifications for Electrical Works Part IV Sub Station – 2013 as amended up to date.
 - c) CPWD General Specifications for Electrical Works Part VII D.G. Sets - 2013.
 - d) Indian Electricity Act 2003 amended up to date
 - e) National Electrical Code
 - f) Indian Electricity Rule 1956 amended up to date
 - g) National Building Code 2016
2. **INTERPRETING SPECIFICATIONS**

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradiction.

 - i. Nomenclature of item as per schedule of quantities.
 - ii. Additional/Special Conditions Technical specifications of the NIT.
 - iii. Approved Drawing (If any)
 - iv. CPWD General Specification for Electrical works (Part-VII) DG Set 2013, (Part-I) Internal-2013, (Part-II) External -1995.
 - v. Relevant IS or other international code in case IS code is not available.
3. The contract should have valid electrical contractor license.
4. Fire regulations: The installation shall be carried out in conformity with the local pollution control regulations and rules there under wherever they are in force and the provisions in local by-laws if any.
5. Safety Codes and Labour Regulations:

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

 - (i) Factories Act.
 - (ii) Indian Electricity Rules.
 - (iii) I.S. & BS Standards as applicable.
 - (iv) Workmen's compensation Act.
 - (v) Statutory norms prescribed by local bodies.
6. Earthing, cement concrete works and testing of the installation shall be done in presence of the Engineer -in-charge or his authorized representative.
7. The successful tenderer shall make his own arrangement for storage and watch and ward of materials whether the same brought by him or supplied by the department He shall remain responsible for watch and ward of installation and other fittings till these are commissioned and handed over to the department.
8. All debris at site shall have to be removed by the contractor before handing over the installation to the department

9. All the material to be supplied and used on the work shall be got approved from the Engineer-in-charge by the contractor before using on the work. The rejected material shall have to be replaced by the contractor at his own cost and the same shall be removed from the site immediately. The list of the approved makes is enclosed.
10. All T & P and special T&P required for the execution of shall be arranged by the contractor within his quoted rates and nothing extra shall be paid on this account.
11. The contractor is bound to sign the site order book as and when required by the Engineer-in-charge and carry out the instruction recorded therein.
12. All the hidden work shall be carried out in the presence of the Engineer-in-Charge or his authorized representative.
13. The work shall be carried out as per layout/ drawings issued by the Department and it reserve the right to change the layout as per requirement at site.
14. All repairs and patch works shall be neatly carried out to match with the original finish and all damages done to the building during the execution of the electrical work shall be the responsibility of the electrical contractor and the same will have to be made good immediately by him to the entire satisfaction of the Engineer-in-charge and nothing extra shall be paid on this account.
15. The electrical work shall progress in close coordination with building work and the contractor has to kept watch over the progress of the building work so that the conduit is recessed in the walls before plastering work starts. At any stage electrical works shall not lag behind civil works. No claim for idle labour on this account will be entertained.
16. The contractor shall follow the shortest route for circuits, sub-main, point wiring etc.
17. Before fabrication, drawings of electrical panels, feeder pillars will have to be got approved by the Engineer – In Charge.
18. Drawings shall be examined by the department and communication of approval of drawings shall be sent and will be handed over to the site representative. The contractor shall have to get the LT Panel fabricated from the approved manufacturers. (As per list of Acceptable Makes of Material). The design and layout as well as strengthening members of the panel to be fabricated and supplied shall be as per the approved drawing / layout.
19. Inspection of the panel may be done by the Engineer in charge or authorized representative before they are dispatched to site of work if required.
20. Depth of cable trench for cable laying direct in ground is to be kept as specified in the specifications. Excavated soil is to be used as cushioning after that protective covering is to be provided.
21. In the event of any discrepancy between the specifications as mentioned under Technical Specifications and as given in CPWD specifications, the specifications under technical specifications shall prevail.
 - I. The relevant latest IS specifications, codes of practice shall be followed if the specifications for the item is not available in the CPWD specifications.

- II. In case ISI specifications are also not available, the decision of the Engineer-in-charge given in writing based on acceptable sound Engineering practice and local usage shall be final and binding on the contractor.

22. The work shall be treated as complete when all the installations are handed over to the department and all the defects are removed to the entire satisfaction of the Engineer-in-charge.

23. In respect of all labour employed directly or indirectly on the work the successful tenderer (herein after called the contractor) at his own expenses will arrange for the safety provisions to comply with the statutory regulations. S.I.S recommendation and CPWD codes. In case of default, the Department shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

24. The contractor shall provide necessary barriers, warning signals and other safety measures to avoid any accident. He shall be liable for such accident as may be done due to any cause in accordance with the Indian Law and Regulation and the department shall not be responsible for any accident, damage incurred or claims arising there from during the period of erection under his responsibility and putting and under his responsibility and putting into operation of the equipment's under his supervision. Where necessary he shall also provide all insurance including third party insurance as may be necessary to cover the risk

25. Nothing in these specifications shall be construed to relieve the contractor of his responsibility for the design, manufacture and installation of the equipment with accessories in accordance with applicable standards and statutory Regulations and safety codes in force from the safety angle.

26. Only deep junction box shall be used for the recesses wiring system.

27. The contractor will submit makes & brands of electrical fittings wires & cables, conduits and switchgears, rising mains, poles , outdoor fittings etc. of preferred make list as per tender documents for approval of Engineer-In-Charge whose decision will be final in the matter.

28. The firm will be required to procure material directly from the manufacturer/ authorized dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the department.

29. Inspection at factory or at godown, as required, shall be arranged by the firm for a mutually agreed date.

30. Delivery of material shall be taken up only with the consent of department, after clearance of the material.

31. Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.

32. All the materials to be supplied by the contractor shall be procured & brought to site as per requirement at site of work in consultation with department so that these materials are not damaged & their manufacturer's warrantee is not lost.

33. Guarantee & Defect Liability Period:

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

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

36. Ceiling fans, Exhaust fans are to be guaranteed for 2(two) Year or standard manufacturer's warranty whichever is the longer period.
37. LED fittings including driver are guaranteed for 5 years.
38. The guaranty for LED fittings is to be got submitted from the contractor. He should give undertaking that in case discontinuation of model and non-availability of spares, he will replace the fittings with equivalent/ high end model in case of manufacturing defect during the warranty period of 5 years in Annexure – X
39. The breaking capacity of the MCB's shall be 10 KA. The MCB's shall have ISI mark. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation with the Engineer-in-Charge or his representative.
40. All the MCCBs shall be rated for $I_{cs}=100\%I_{cu}$.
41. The copper wire to be used on this work shall be FRLS type and ISI marked.
42. The galvanized boxes of modular switch/sockets etc. shall be of the same make as of switch/socket etc. Only the required knockouts of the switch boxes are to be removed for terminating the conduit pipes.
43. Make of MCB/MCCB shall be the same as the make of MCB DB.
44. All the switch boxes, MCB DBs are to be covered with plastic sheet / petroleum jelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster/ splashes of the paint. Cement plaster / paint are to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.
45. The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.
46. Modular switches & accessories, MCBs, MCBDB, Fittings, accessories and other items from the manufacturers or their authorized dealers to the satisfaction of the Engineer-in-charge.
47. All PVC conduits accessories shall be of the same make as conduits.
48. Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.
49. All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB s. No payment for these loose wires shall be made. However, wires within the cubicle panel will be measured and paid under relevant item of work.
50. To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc., where wiring is not done along with IEI works, fish wire shall be invariably drawn.
51. The connection between incoming switch / isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.
52. Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.
53. All MS junction box cover should be of phenolic laminated / good quality plastic sheet of thickness not less than 3mm and for which nothing extra shall be paid on the account.
54. All sub-main wiring shall be terminated in the main board with suitable copper lugs and thimbles for which nothing extra will be paid on this account.
55. All hardware items such as screws, thimbles, GI wire etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
56. All hardware items such as nuts/ bolts/ screws/ washers etc. to be used in work shall be zinc/ cadmium plated iron.

57. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
 58. While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the E-in-C.
 59. Where switches/ sockets/ regulator/ telephone/ TV / internet outlets are to be provided, the same shall be of only one make.
 60. While laying conduits for fire alarm system, sufficient junction outlets are to be provided as per the direction of the Engineer-in-Charge for detectors as required, for which no extra payment shall be made.
 61. The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including GST-works contract tax as applicable & labour cess 1% and Income Tax as applicable), duties levies, octroi etc and all charges for packing forwarding, insurance, freight and delivery, installation, testing. All statutory deductions like Income Tax, Labour welfare cess etc. shall be made from the bills.
 62. The contractor and his men shall have to abide by the security instructions of BSF authorities. No claim of idle labour or any other claim on this account shall be entertained by the department. The normal working time shall be in day time. No claim from contractor for extra payment on account of any change in working hours shall be entertained by the department.
 63. The work will be carried out in close coordination with the building work and other agencies. Conduits will be laid in the slab within the specified time and it will have to be ensured that the casting of slabs is not delayed for want of laying of conduits.
 64. If any types of mis-happening / human loss occur during execution of work at site, the contractor will be fully responsible for it and liable to bear all losses and has to pay full compensation. The department will not take any responsibility for such type of happening.
- .

LED Luminaire Specifications

1	LED Make	NICHIA/ OSRAM/ SEOUL/ PHILIPS/LUMILEDS/ LEDNIUM/ CREE OR AS APPROVED BY ENGINEER IN CHARGE
2	Lighting wattage/Type	As per BOQ / Make & Model of the fixture
3	CCT	6000K (+/-500K) cool white AND 2700 to 3000/4000 K for Warm White or as per BOQ
4	Ingress Protection	IP20 for indoor lights and IP 65 or as specified in BOQ
5	Rated Luminous flux	As per BOQ/Make & Model
6	CRI (Typical)	As per BOQ/Make & Model
7	Harmonics	As per BOQ/Make & Model
8	Power Factor	Minimum 0.95
9	Rated Voltage	160 V – 270 V
10	Surge Voltage	Up-to 2 KV for indoor lights
11	Operating temperature	-10 to +50 deg C
12	Luminaries Efficacy	System Luminous Efficacy minimum 100 lm/ W or as per BOQ
13	Driver Efficiency	>85%
14	Average LED life L70B50:	50000 hours
15	Luminaries life span	Minimum 50,000 Hrs.
16	LM79 & LM 80 Test Certificate.	LM79, LM80 Test Certificate
17	Standard Guaranty/ Warranty Guarantee for complete luminaries including Electronic driver, SPD	5 years
18	Test Report	Photometric test result and electric test results for NABL accredited Lab for makes and models.

NOTE: - Only NABL Acc. Lab. Reports will be accepted as per respective IS Code/BIS for all items mentioned above. Actual CCT need to be ensured at manufacturer's premises in or NABL test lab

through inspection if required. Agency has to arrange this well before time of supply and indicated the same the BAR Chart so that progress of work should not be hampered.

UNDERTAKING LETTER FROM MANUFACTIRERES OF LED FITTINGS

(ON THEIR LETTER HEAD)

We hereby agree that

- 1. All the LED fittings supplied by us are guaranteed for five years including drivers from the date of handing over.
- 2. In case of discontinuation of model and non-availability of spares, we will replace the fittings with equivalent/ high end model in case of manufacturing defect during the warranty period of 5 years.

For M/S,

..... (Authorised signatory of manufacturer of LED

luminaries)

Counter Signature,

Major contractor

Note: The contractor has to submit the above undertaking after handing over of system in complete shape. The date of warranty will be reckoned from the date of handing over of system to the client department.

LIST OF APPROVED MAKES FOR EQUIPMENT & MATERIALS

S.No	Details of Materials/ Equipment	Manufacturer's Name
1	FRLS PVC insulated, copper conductor single core cable ISI Marked	(Havells / Polycab / Finolex / RR Kabel
2	CAT-6 Cables for LAN wiring	AMP / Systemax / Mollex /D-Link / Legrand / Finolex / Havells / Polycab
3	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath	Havells / Polycab / Finolex / RR Kabel
4	FRLS PVC insulated annealed copper conductor, unarmoured telephone cable	Havells / Polycab / Finolex / RR Kabel
5	PVC CONDUIT (ISI MARKED)	Precision / AKG / Polycab /Finolex / Anchor/ GM Modular
6	PVC CONDUIT Accessories – Bend/Junction Box	Precision / AKG / Polycab /Finolex / Anchor/ GM Modular
	Piano Type Switch Socket /Telephone Socket / TV Socket	Anchor / Havells / SSK
7	Modular Switch /Socket/Telephone Socket / TV Socket / LAN socket/ Data outlet Socket/Fan Regulator / USB Charger / Metal boxes / Occupancy Sensor/ Blanking / G.I. box for modular switches	MK- Blenze / Legrand - Myrius / ABB - Cheiron / Schneider – ZENcelo / Anchor – AVE
8	Wall bracket fitting, bed light	(Jaquar / Havells / Decon/ Philips/ WIPRO/GE/ GM Modular make)
9	Call Bell / buzzer	Anchor / GM Modular /Cona/ / Havells / MK / Legrand / ABB
10	Ceiling Rose, (3 Pin), Batten Holder / Angle holder	Anchor / Havells/ GM Modular / MK / Legrand / ABB
11	Fresh Air Fan with 2 YEARS Guarantee.	Havells make Ventil Air-DX with self-opening louvers or with similar specifications in Crompton / Orient / Usha / Almonard
12	Exhaust Fan 300 MM with 2 YEARS Guarantee.	Havells / Crompton / Orient / Usha / Almonard
13	Exhaust Fan (Heavy duty) 380/450 MM with 2 YEARS Guarantee	Havells make Turbo force Heavy Duty Exhaust Fan or with similar specifications Crompton / Orient / Usha / Almonard
14	Ceiling Fan 1200 mm should be BEE 5	(BEE 5 star rating BLDC Ceiling fan with

	star rating (complete with Fan Motor, Blade Set, Down Rod, Canopy Set, Shackle Kit, guarantee card) with 2 YEARS Guarantee	minimum 2 year Warranty of Atomberg/ Usha/ Orient / Havells make)
15	Ceiling Fan 1400 mm BEE 5 star (complete with Fan Motor, Blade Set, Down Rod, Canopy Set, Shackle Kit, guarantee card) with 2 YEARS Guarantee	(BEE 5 star rating BLDC Ceiling fan with minimum 2 year Warranty of Atomberg/ Usha/ Orient / Havells make)
16	Ceiling Fan 600 mm / 900 MM BEE 5 star (complete with Fan Motor, Blade Set, Down Rod, Canopy Set, Shackle Kit, guarantee card)	(BEE 5 star rating BLDC Ceiling fan with minimum 2 year Warranty of Atomberg/ Usha/ Orient / Havells make)
17	Storage Water Heater	(Make: Havells / Crompton/ AO Smith /Racold /Jaguar with 7-year warranty on inner tank, 3 year warranty on heating element, 2 year comprehensive Warranty)
18	LED Lamp 5 WATT TO 20 Watt	Philips / Havells/ Wipro/ Bajaj
19	LED Light Fittings / LED Luminaries/ LED FLOOD LIGHTS	Philips / Havells/ Wipro /Bajaj
20	MCCBDB, MCB, RCB, MCB Enclosure, etc. (MCB & MCCDB to be and of same make as MCCBDB)	L&T /Legrand /ABB /Schneider/Siemens.
21	MCCB (Icu =Ics= 100%)	Schneider electric NSX series/ Legrand (DPX3)/ L&T(DSine)/ ABB(TMax) / Seimens (VL series)/Havells (HIX)
22	G.I. Pipe	JINDAL (HISAR) / TATA/ Zenith /Surya – Prakash (All ISI marked only).
23	XLPE insulated PVC sheathed armoured / unarmoured copper / aluminium conductor MV cable, control cable/ Submersible cable of 1.1 KV grade	(ISI marked)
24	DWC HDPE pipe ISI marked	(REX Polyextrusion / Jain Irrigation / Duraline / Avadh Polytube/ Gemini make)
25	H T/ LT indoor, outdoor & straight through joint, END TERMINATION	Raychem, M Seal, 3M
26	Terminal blocks	Connect well/Elmex/ Phoenix/ Wago/ Essen
27	Cable Glands	Comet, Cosmos, DOWELLS/ HMI / JAINSONS
28	Copper/ Aluminium Cable Lug	Comet, Dowell/ Johnson/ Gripwel / Hax Brass
29	LED Type Indicating Lamps	ABB/ESBEE /Schneider electric /L&T /

		Siemens/C&S/ Vaishno / Telemechenique
30	Current Transformer	L&T / A.E. / Kappa / IMP/ GE / C & S / Rishabh / Gilbert & Maxwell
31	Selector Switch, Toggle Switch	L & T/ Siemens/ Kaycee / BCH / Kaycee / Rishabh/ Schneider
32	Push Buttons	L&T / Siemens / Teknic / GE / C &S /SCHNEIDER/ ESBE
33	Timer	Siemens/ L & T /Schneider /ABB
34	Energy Meter	L&T / HPL / Richa/ AE/Rishab / Conserve/ Secure/
35	Single Phase Preventer	L&T / Minilec / Siemens / Telemechanic / ABB/ Schneider Electric
36	Rotary Switches	Kaycee / ABB / Schneider Electric / L&T / Siemens / BCH / Rishabh
37	Voltmeter / Ammeter/Multifunction Meter	A.E. / IMP /L&T/ Conzerv / Rishabh /HPL/ MECO
38	Overload Relay	ABB / Schneider Electric / L&T / Siemens
39	Contactors	L&T, Schneider, Siemens, ABB, Legrand
40	ACB's	Siemens (Sentron 3 WL)/ L&T (U Power)/ ABB (Emax)/ Schneider (Masterpact)
41	Polycarbonate Junction Boxes	Hensel / Clipsal/ Sintex
42	G.I. Octagonal pole	Bajaj/ Philips / Havells/ Transrail / Valmont /Utkarsh
43	Motor Pumping set	ABB / Crompton / Siemens / Kirloskar / CRI/ Texmo /KSB
44	Changeover Swotch	L&T/ HPL-Socomec / Schneider / Siemens/ ABB
45	Control Cables and Other Cables	Havells / Polycab / Finolex / RR Kabel
46	Switch Disconnecter Fuse Units (SDFUs)	L & T / Legrand / Schneider / Siemens/ ABB
47	Cubical Panel Board / Feeder Pillar	Manufacturers having CPRI test certificate not older than 5 years from the date of call of tender for min 1000A, 50KA rating.
48	Air Conditioner	Daikin / Hitachi / O-General / Mitsubishi
49	Centralised air-cooling system	Symphony/Coolwind / Evapolar/ Sky Air cooler/
50	Synthetic Enamel Paint	Berger, Asian Paints, Jenson &Nicholson, Nerolac.
51	CPVC Pipes and Fittings.	Finolex / Supreme /Astral / Ashirvad/ Prayag

52	All other items not covered above	As per approval of the Engineer-in-charge
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Under taking by the contractor

Full name and address of the Tenderer in addition to post Box No., if any, should be quoted in all communications to this office

From :

Name of Work: - **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER..**

Dear Sir,

2. I/We have understood all the instructions to Tenderers in the Tender Enquiry and have thoroughly examined the specification drawing and/or pattern quoted in the schedule hereto and am/are fully aware of the nature of the stores required and my/our offer is to supply stores strictly in accordance with the requirements.
3. I have understood all the tender condition in the Tender Enquiry and will comply with them.
4. All the schedules & appendices have been submitted duly filled in & signed.
5. **The Physical EMD and other eligibility documents shall be deposited by me/us with the "DIG SHQ BSF BIKANER" in case I / we become the lowest bidder within a week of opening of financial bid otherwise department may reject the bid and also take action to debar me /us from tendering in BSF and Enlistment Department may also take action against me / us to debar me /us from tendering in Department."**
6. The complete tender document from page **No.1 to Page No.35** of this tender and any other document mentioned in this tender shall be considered for constitution of Contract Agreement.

Yours faithfully.

(SIGNATURE OF TENDERER) DATED _____

ADDRESS

SIGNATURE OF WITNESS

ADDRESS _____ DATED _____

CUSTOMER'S OPTION TO RECEIVE PAYMENTS THROUGH E –PA YMENT (ECS/EFT/DIRECT CREDIT/RTGS/NEFT/OTHER PAYMENT MECHANISM AS APPROVED BY RBI)

Name of Work: - **PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.**

Credit Clearing Mechanism

1. Customer's name :
 2. Particulars of Bank Account :
 - a. Bank Name :
 - b. Branch name :
 - c. Address :
 - d. Telephone numbers :
 - e. IFS code :
 - f. digit code number of Bank and Branch:
appearing on MICR cheque issued by Bank
 - g. Account Type :
(SB Account/Current Account or Cash)
 - h. Ledger number :
 - i. Ledger Folio number :
 - j. Account number as appearing :
on Cheque Book 3. Please attach a blank cancelled cheque, or, photocopy of a cheque or front page of your savings bank passbook issued by your bank for verification of the above particulars.
 4. Date of Effect :
- "I, hereby, declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under scheme."

Date :(.....)

Signature of Customer

Certified that the particulars furnished above are correct as per our records

Bank's Stamp (.....) cancellation

Date :-

Signature of the Authorized Official from the Bank

SCHEDULE OF QUANTITY

NAME OF WORK :- PROVIDING OF SOLAR POWER SYSTEM FOR INTRUDER ALARM SYSTEM INSTALLED NEAR INDO-PAK BORDER IN AREA OF BOP KAILASH AND SERPURA OF 104 BN BSF UNDER SHQ BSF BIKANER.

S No	Description	Qty	Unit	Rate	Amount
1	Supply, Installation, Testing and Commissioning off-grid Solar Photovoltaic Power Plant consisting of Mono/Poly Crystalline silicon solar cells, necessary protections, mounted on Aluminium/GI structure of suitable strength with following components complete as required:- a) The total solar PV array capacity should not be less than 660 Wp. (Luminous / Havells/ Su-kam / Microtek /WAAREE / TATA / CEL / Moserbear)	2	No	47865.00	95730.00
	b) SOLAR off-grid Power Conditioning Unit cum Invertor with minimum continuous Output Rating 0.5 KW, should have inbuilt solar charge controller and Protection against deep discharge, overcharge and short-circuit. The PCU will have following features: Nominal DC Array Input Voltage = 12 V DC, Acceptable input Voltage Range AC = 110-290 V A, Output Voltage 230 V, 50Hz,. (Luminous NXG+ 1100 or similar in Havells/ Su-kam / Microtek /WAAREE / TATA)				
	c) Fixing of Mc4 Connector with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required. d) Connections & Interconnections by supplying & fixing following sizes ISI marked PVC insulated copper conductor single core cable 1.1 kV, Conforming to IS 694 grade. e) Module interconnections and module parallel connections with the 4 sq mm cable. II) Array / AJB to PCU 2 x 6 sq mm copper cable in PVC conduit. III) Battery to PCU = minimum 16 mm copper cable. IV) PCU to load / change over switch 3 x 4 sq mm copper cable. (6 Mtr only)				

<p>f) Battery: one 12 Volt, 150AH, @ C10 Tubular Low Maintenance Lead Acid Solar Battery with 5 Years replacement warranty. (Luminous / Havells/ Su-kam / Microtek / TATA / HBL / OKAYA) Including Complete design, construction of array support structure, civil work (limited to fixing of PV structure) The systems should be installed with a 1:2:4 cement concrete block of 60 cm X30 cm X30 Cm with each support. Warranty : 2 years for complete system, 2 years for PCU cum Inverter, 10 years product warranty on PV modules , 25 years Performance Warranty on PV modules. 5 Years on Battery.</p>				
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95730.00