

**BORDER ROADS ORGANISATION**  
**Ministry of Defence**  
**CHIEF ENGINEER PROJECT DANTAK**

**NAME OF WORK:** **PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

Name of Contractor: \_\_\_\_\_

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Signature of Contractor

For Accepting Officer

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Project Dantak  
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80630/ /E8

Apr 2026

M/s \_\_\_\_\_

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

Dear Sir (s),

1. A set of tender documents for the above work is forwarded herewith. Please note that tender will be received by the Accepting Officer at the office of the **Chief Engineer (P) Dantak, Simtokha, Thimphu** or at **Transit Camp located at 1644 Pioneer Company, 19 BRTF, Jaigaon, West Bengal PIN-736182, Ph 9149553650/ 9877069433** up to **1730 hrs (BST)/1700 hrs (IST) on 21 May 2026** and **Technical Bid (Part-I) of the tender documents will be opened at 1530 hrs (BST) on the 25 May 2026**. Tender received after the due date and time will not be considered.

2. Tenderers or their duly authorized representative who have submitted their tenders and who wish to be present at the time of opening of tenders may attend the office of Accepting officer **Chief Engineer (P) Dantak C/O 99 APO** at the above mentioned time.

3. Tender documents may also be downloaded from CPP Portal <http://eprocure.gov.in/epublish/app> and printout is to be taken on A4 size paper. It is advisable that downloaded tender document preferably to be printed through laser printer only. Submission of photocopy of tender is not permitted. **Earnest money**, Integrity Pact duly signed on each page by the bidder(s) and undertaking given at Page No. 23 of tender must be delivered to the Chief Engineer Project along with the T Bid and if **Earnest money** and integrity pact is not submitted along with the T Bid, same shall be rejected by the Accepting officer.

4. Tendering procedure shall be single stage-two bid System and tender documents shall be prepared in two parts as under :-

**Part-I ('Technical Bid' – 'T' Bid)**

**Part-II ('Price/commercial' – 'Q' Bid)**

Signature of Contractor

For Accepting Officer

5. **Part-I ('Technical Bid' – 'T' Bid)**

5.1 (a) The tender to be submitted (physically) by the bidder will be comprised of following documents: -

- (i) Blank.
- (ii) Bid security declaration by un-enlisted contractor and enlisted contractors who have submitted/not submitted standing security deposit.
- (iii) Signed copy of all the Eligibility/Qualification documents required as per tender conditions given at Page No. 03 to Page No.10 of tender documents.
- (iv) Signed copy of Integrity Pact.
- (v) Signed copy of undertaking by tenderer given at Serial Page No. 23 of tender.

(b) Following documents will be deemed to be part of the contract during the time of acceptance of contract: -

- (i) Part-I Technical Bid of the tender document
- (ii) Notice Inviting Tender
- (iii) Special Conditions of Contract
- (iv) Particular/Technical Specifications including Drawings, if any
- (v) Any other Amendment/errata to tender document

5.2 **Technical evaluation criteria**

5.2.1 If contractor is not enlisted with BRO or enlisted with BRO but has not submitted Standing Security Deposit, he should have submitted Earnest money.

5.2.2 All the pages of T-Bid should have been duly signed by the bidder/authorized representative having valid Power of Attorney.

6. **Eligibility Criteria:-** (A) Tenderers shall meet the following eligibility criteria for qualifying in Technical bid:-

- (a) The tenderer should have working capital and/or credit facilities of at least 10% (**i.e. Rs. 15.82 Lakh**) of the estimated cost of the work (Applicable only for non – enlisted Contractors).
- (b) Engineering Establishment: Firm should have employed following Engineers on regular establishment:

<b><u>Estimated cost of Work</u></b>	<b><u>Nos of Engineers</u></b>
Between Rs. 1 Crores and Rs. 3 Crores	Two Engineers (Graduate with minimum 2 years experience and /or Diploma with 04 years experience)

6.1 **Experience:** - Tenderer should have successfully completed or substantially completed with any Govt agencies/PSU/Municipal Corporation/local Govt bodies **three** similar works costing not less than the amount equal to 40% of estimated cost of work (**i.e. Rs. 63.27 Lakh**) or **two** similar works costing not less than the amount equal to 50% of estimated cost of work (**i.e. Rs. 79.09 Lakh**) or **one** similar work costing not less than the amount equal to 80% of estimated cost of work (**i.e. Rs. 126.54 Lakh**) in last seven & current financial years.

**Similar works means Installation of on-grid solar rooftop electric power plant.**

**Notes: -**

1. Substantially completed works means those works which are 90% completed on the date of submission (i.e. gross value of work done up to the last date of submission is 90% or more of the original contract price) and continuing satisfactorily.
2. Tenderer should submit list of work executed in the past 7 years in their letter head duly signed by the proprietor/partner/director of the firm in the proforma contained in Clause 8.1.
3. Completion cost of works shall be brought to common base date of receipt of tender as per following formula: -

Completion cost X (1 + Period in days from date of completion to date of receipt of tender/365 days) X 0.10)

**6.2 Available Bid Capacity (ABC)**

**6.2.1** ABC as per formula given here-in-after should be more than the estimated cost of work given in NIT (i.e. ABC > **Rs. 158.17 Lakh**). Tenderers shall calculate ABC and submit details duly signed on letter head.

**Available Bid Capacity = 2.5 x A x N – B**

**A.-** Maximum value of all Civil Engineering works in any one year during the last 5 financial years (Updated to the current price level with enhancement factor as given below) supported with duly certified Balance Sheets/ Certificates from Chartered Accountant.

<b><u>Year</u></b>	<b><u>Multiplying factor</u></b>
Last first year	1.10
Last second year	1.20
Last third year	1.30
Last fourth year	1.40
Last fifth year	1.50

**N-** Number of years prescribed for completion of work for which the current bid is invited.

**B-** Value of the balance ongoing works to be executed in period N.

**6.2.2** The tenderers shall indicate actual figures of completion cost of work and value of A without any enhancement as stated above.

**6.2.3** The tenderer may be accorded an opportunity to clarify or modify his qualification documents, if necessary, with respect to any rectifiable defects through option of short fall in tender documents to be submitted by the bidder. The tenderer will respond in not more than 07 days of issuance of the clarification letter through shortfall option failing which his tender is liable to be rejected.

**6.3 Deleted**

**6.4 Performance and other requirements:**

- (a) There should not be poor/slow progress in running work. (If yes, submit details and reasons of delay to check that these are not attributable to him or am beyond his control.)
- (b) There are no serious defect observed in works which stand unrectified (If yes submit details and reasons).
- (c) There are no Cancelled/abandoned contracts in which Govt. unrealized recoveries exist (If yes submit details and reasons).
- (d) He/They have not been blacklisted by any Govt. Deptt (If yes submit details and reasons).
- (e) There are no any Govt. dues, outstanding against the firm (If yes submit details and reasons).
- (f) Tenderer should not be habitual litigant i.e. having more than 3 unsuccessful arbitration/court cases during last years in which his views/claims substantially rejected.
- (g) Proprietor/partners/directors of firm are not involved in antinational/social activities and should have neither been convicted nor should any proceedings be pending in court for such activities.
- (h) Firm should have been considered capable of taking more load in work load return circulated by DGBR. In case the firm is not considered capable for taking more work load due to unsatisfactory performance in the running works, in the prevailing report circulated by DGBR their technical bid shall be rejected.

**6.5 Disqualification**

**6.5.1** Even though the tenderers meet the above criteria, they are liable to be disqualified if they have made misleading or false information in bidding documents submitted.

**7. JOINT VENTURE IN BRO WORKS (Except for EPC Tenders)**

7.1 Two firms are permitted to bid for the tender based on Joint Venture agreement between them. Joint Venture (JV) shall not comprise more than two firms (called parties of JV). The format of agreement at Annexure 'I'. The JV shall be considered as un-enlisted contractor. The JV shall submit Earnest Money Deposit for all tenders and individual Security deposit as per instructions, in contract is awarded.

7.2. JV shall be allowed for the following works: -

- (a) Road work with estimated cost more than Rs.50 crore.
- (b) Bridge work and via duct with estimated cost more than Rs.20 crores.
- (c) Tunnel Works of any value.
- (d) Runway Work any value.
- (e) PEB structure works of any value

- (f) Solar Power works of any value
- (g) Works for specialist E/M services with estimated cost more than Rs. 20 crore.
- (h) Consultancy Work for Preparation of DPR for Bridges Tunnels & EPC roads with estimated Cost more than Rs.5 Crore.
- j) Works other than the types at (a) to (h) above with estimated cost more than Rs.50 crore

7.3. No JV shall be allowed for furniture works. No JV shall be allowed to participate if either or both the parties are banned/adversely remarked in WLR of BRO or debarred from tendering by any authority.

7.4. Foreign Companies shall not be permitted to participate in JV except in case of tunnel project. Security clearance of Foreign Companies having foreign citizenship Directors shall be dealt with as prescribed under subsequent para.

7.5. (a) Indian Companies having Director (s) of foreign origin and Indian Companies having Director (s) of Indian origin but residing abroad / having foreign citizenship shall be permitted to participate in JV. However, security clearance in such cases shall be obtained by following procedure laid down by Ministry of Home Affairs vide their letter No 11/20034/2013-1S II dt 30 Jun 2015 and amendment there if vide OM No 11/20034/2013-11 dt 09 Dec 2015. These letters, being classified, are not being shared. The case for security clearance shall be processed to HQ DGBR for taking up matter with concerned authorities.

(b) Case for security clearance shall be processed to HQ DGBR on PRIORITY after opening T-bid (Cover-1). Further processing of tender to open Finance Bid (Cover 2) shall not be held up awaiting receipt of security clearance. However, if the JV requiring security clearance of Director(s) becomes L1, the tender shall be accepted only on receipt of security clearance. For this, the Accepting officer will pursue the security clearance vigorously.

(c) For runway tenders, all other policies issued vide E-in-C's Branch letter No. A/37696/OSDPL/POL/ E2W (PPC) dt 15 May 2015 as amended vide their letter even No dt 14 Mar 2017 pertaining to experience, nature of works executed, requirement of tools, plants and machinery, financial turnover, Available Bid Capacity etc shall be followed.

7.6 A valid agreement shall exist between the parties of JV defining clearly the role, responsibility and scope of work of each party, percentage share of each party along with nomination of leader (lead Party) for the purpose of this work and a confirmation that the parties of the JV are jointly and severally responsible.

7.7 JV as a single unit or each party of the JV shall have Permanent Account Number (PAN) and GSTIN. However, if the contract is awarded to the JV, then PAN & GSTIN shall be obtained by the JV as single unit.

- 7.8 The JV shall have two parties. The lead party of the JV shall meet minimum 60% or the percentage of share in the JV (whichever is higher) of the qualifying criteria pertaining to (a) past experience of completed works, (b) Average Annual Turnover, (c) Bank Solvency/ Financially Sound for engagement and (d) Working Capital. Both the parties combined shall meet minimum 120% of the above qualifying criteria. The party other than the lead party shall meet minimum 30% of the above qualifying criteria.
- 7.9 Both the Parties of JV shall jointly possess the required T&P, machinery and engineering/ supervisory staff. T&P can be either on ownership basis or lease hold as stipulated in NIT/ tender documents and documentary proof of the same shall be submitted. Other qualification criteria shall be met fully/ Jointly by both the parties of JV or as a single unit of JV.
- 7.10 In the Residual Bid Capacity (in the formula  $2.5 \times A \times N - B$ , where A= Maximum turnover in last five financial years, N= Period of completion of contracted (tendered) work (in years calculated till two decimal places) and B= Value of balance work in all Govt & Private works), in respect of a JV, values of A and B shall be the sum total of the respective figures of both the parties.
- 7.11 Similarly when a Firm/ Contractor working in JV applies for tender (s) in his own capacity (i.e. independently), the part value of A and B of his JV work (s) in proportion to his percentage share in JV shall also be considered against the tender applied in his own capacity and capacity and hence these details shall be submitted by the Firm/ Contractor in his T- bid.
- 7.12 JV concluded upto the date of bid submission is permitted to apply. Copy of JV should be uploaded. The Department reserves the right to verify the particulars furnished by the applicant independently. If any information furnished by the applicant JV is found incorrect and / or misleading and/or false representation and/or deliberately suppressed information, at a later stage, the JV and both the parties shall be liable to be debarred from tendering/taking up of any work in BRO.
- 7.13 Party/parties will not be allowed to bid for the same tender in their independent capacity as well as under JV. Also, no party will be allowed to bid for the same tender under multiple JVs. In case of violation (party/parties bidding independently as well as under JV for the same tender, party/parties bidding for the same tender under multiple JVs), the bid of the party/parties concerned as well as the bid(s) of the related JV(s) shall not be opened (i.e. shall not be qualified in T bid Cover '1').
- 7.14 The lead party shall attend all progress review meetings and shall be answerable to all issues relating to the project.
- 7.15 For any of the defaults as under of the JV, administrative action shall be taken against both the parties of the JV: -
- (a) In case of non-submission of physical original documents of cost of tender, EMD- Barring from bidding for six months.

(b) Due to default in performance of contract etc.- Administrative actions as per existing instructions

7.16 Any unrealized recovery from JV shall be recovered proportionately from the parties in proportion to their percentage share in the JV. If it is not possible to recover proportionate share (partly/fully) from one party, it shall be recovered from other party.

**8 List & format of eligibility documents to be attached alongwith Part-I of tender documents to prove eligibility: -**

8.1 List of works completed/substantially completed in “last seven and current” financial years and ongoing works in following format: -

Name of work & CA No	Brief scope of work	Name & address of employer/client	Accepted contract amount	Date of commencement of work	Original date of completion	Extended date of completion	Actual date of completion /preser progress	Cost of completed work	Cost of balance Work	Remarks explaining reasons of delay if any

**Note :** Works proving eligibility criteria of experience shall be highlighted and performance certificate from client in respect of these works shall be submitted.

**8.2 Available Bid Capacity:**

**For -A :-** Balance sheets/certificates from Chartered Accountant indicating annual turnover of Civil Engineering works constructed in last 5 years.

**For-B: -** Contractors shall submit details of ongoing works as per format stated in Clause 8.1 of above.

Tenderers shall calculate ABC and submit details duly signed.

**8.3 Deleted**

**8.4. Integrity Pact (IP) (applicable for tender with estimated cost of **Rs. 5.00 Crore** and above for all contract works and in tender for procurement services, stores, equipment & plants with estimated cost of **Rs. 1.00 Crore** and above).**

IP duly signed by Accepting Officer/ authorized officer has been uploaded along with this tender as **Annx-II** same shall be signed by bidder(s) on each page and scanned copy shall be submitted as part of Technical bid (cover-1) and original IP duly signed on each page shall be forwarded by post along with tender fee and EMD (if applicable). IP will be an integral part of the Contract and both parties are bound by its provision.

**8.5 Performance and other requirements.**

8.5.1 Tenderer shall submit undertaking that:-

(a) There is no poor/slow progress in running works. (If yes, he will submit details and reasons of delay to check that these are not attributable to him or are beyond his control).

- (b) There are no serious defects observed in works which stand un-rectified (If yes, he will submit details and reasons).
- (c) There are no cancelled/abandoned contracts in which Govt. unrealized recoveries exist (If yes, he will submit details and reasons).
- (d) He/They have not been blacklisted by any Govt. Deptt (If yes, he will submit details and reasons).
- (e) There are no any Govt. dues outstanding against the firm (If yes, he will submit details and reasons).
- (f) Proprietor/partners/directors of firm are not involved in anti national/social activities and have neither been convicted nor are any proceedings pending in court for such activities (If yes, he will submit details).

8.5.2 Tenderer shall submit information of all arbitration/court cases decided during last five & current financial years and also presently in progress as per following format: -

- (a) Name and address of employer.
- (b) Cause of dispute.
- (c) Amount involved.
- (d) Brief of Court judgment/arbitration award (if published) otherwise present progress.

8.6 **Working capital:** Copy of Latest balance sheet/income tax return for working capital and/or Banker's certificate for credit facilities. If necessary, Department will make inquiries with the tenderer's Banker.

8.7 Constitution of firm along with copy of partnership deed (in case of partnership firms) and memorandum of articles and association (in case of limited companies).

8.8 In case of unenlisted firms, Copies of Passport of proprietor/partners/directors (if available). Present address & photograph for verification of character and antecedents of proprietor/partners/directors from police authorities.

8.9 Copies of PAN Card of proprietor/partners/directors.

8.10 Lowest bidder if unenlisted firm in BRO (if his offer is decided for acceptance) will be required to fill enlistment form for provisional enlistment.

**Notes:-**

- 1 Documents as listed at clause 8.6 to 8.8 above are exempted for tenderers enlisted with BRO in any class.
- 2 Affidavits shall be submitted on Non-Judicial stamp papers of appropriate values duly attested by the Magistrate/Notary Public.
- 3 Photocopies of documents shall be attested by Gazetted officer/Public notary and also self attested.

4 **The bidder should meet all the technical evaluation criteria indicated in the bid documents in order that the bid is considered to be technically responsive and the bidder qualifying to have its Financial Bid opened.**

9. **Part-II ('Price/commercial' – 'Q' Bid)**

9.1 Part-II 'Price/commercial Bid' – 'Q' Bid) shall comprise of the following: -

- (i) Schedule- 'A' Notes.
- (ii) Schedule 'A' (to be quoted by Bidder)
- (iii) Schedules 'B', 'C', & 'D'.
- (iv) Tender page

10 **Q bid evaluation**

(i) Arithmetical corrections shall be made as per General condition of contracts **6(A)(A) of IAFW-2249.**

(ii) Commercial bids will be reviewed to ensure that the figures indicated therein are consistent with the details of the corresponding Technical bids.

(iii) For the purpose of evaluation "cost" shall be inclusive of all taxes and duties.

(iv) Cost of all items of Schedule A shall be totaled and the bidder who has quoted lowest total cost in Schedule A (L-1) shall be considered successful bidder and all other bidders shall be considered unsuccessful. Offer of successful bidder (L-1) shall only be considered for acceptance. If L-1 backs out, re-tendering shall be resorted in a fair and transparent manner. Completion period as indicated in Tender Document have been accepted.

10.1 The **Chief Engineer Project Dantak** will be Accepting Officer here-in-after referred to as such for the purpose of this contract.

10.2 If tenderers desire that any condition or stipulation given in the tender documents is to be modified or deleted, they may submit their comments/suggestions before last working date of clarification as shown in critical date details in subject tender ID for consideration by the Deptt for issue of corrigendum/amendments to tender documents. If Deptt considers comments/ suggestions suitable, corrigendum/amendments to tender documents shall be issued and also uploaded on E-tendering Portal. If Deptt does not consider comments/suggestion suitable, corrigendum/amendments to tender documents shall not be issued/uploaded on E- tendering Portal and tenderers shall quote strictly complying with the various provisions given in the tender documents. Any tender who stipulates any alterations to any of the conditions/provisions laid down in tender documents (including corrigendum/amendments) or which proposes any other conditions of any description whatsoever is liable to be rejected.

10.3 The tenderers are advised to visit the work site to acquaint themselves of working and site conditions, before submitting their tender. The submission of tender by a person implies that he has read this tender forwarding letter, the conditions of contract and has made himself aware of the scope and specifications of the work to be done and of the conditions and other factors, site conditions, taxes & levies prevailing etc which may affect the quotation and execution of the work.

10.4 Tenderer must be very careful to deliver a bonafide tender, failing which the tenders are liable to be rejected. Tenderers are, therefore, advised to ensure that their tender must satisfy each and every condition laid down in the tender documents.

10.5 Your attention is drawn to the Indian Official Secret Act-1923 (**XIX** of 1923) as amended up to date particularly section 5 thereof.

**11 Earnest Money :-**

(a) Earnest money is not required to be attached with tender by the enlisted contractor with BRO (term "enlisted contractor" used in tender documents means "enlisted contractor with BRO") who have submitted standing security but same is required from unenlisted contractor/enlisted contractors with BRO, who have not submitted standing security deposit.

(b) Unenlisted contractors with BRO/enlisted contractors with BRO, who have not submitted standing security deposit will submit the tender accompanied with Earnest Money amounting to **Rs 2,33,170.00 (Rupees Two Lakh Thirty Three Thousand One Hundred Seventy only)** in the form of Deposit at call receipt/Term deposit receipt/Special Term deposit receipt issued in favour of **Chief Engineer (P) Dantak C/o 99 APO** by Nationalised/ Scheduled Bank. Tender not accompanied with earnest money will not be considered for acceptance. The amount of this receipt should be basic amount and not their maturity value. Any deposit lying with the department in any form against any other tender and/or contract shall not be considered for adjustment as the earnest money in the form as indicated here-in-before or accompanied with any letter/communication containing any request for adjustment of any other deposit as earnest money shall be treated as non-Bonafide tender.

(c) Earnest money shall be returned to unsuccessful bidder (other than L-1) after opening of price bids and to successful(L-1) bidder after receipt of security deposit.

(d) However, MSME registered firm should be exempted for submission of EMD

**12. Performance security: -**

12.1 Within 28 days of receipt of the letter of acceptance, the successful contractor shall deliver to the accepting Officer a Performance Security for an amount equivalent to **5% (Amended vide HQ DGBR letter No. 24228/DGBR/Policy Instr/2023/32/E8 dated 28 Mar 2023)** of the Contract sum as laid down under condition 19 of IAFW-2249 / Condition 14 A of IAFW -1815 Z (General Conditions of Contract).

12.2 Failure of the successful contractor to comply with the requirement of sub clause 12.1 shall constitute sufficient grounds for cancellation of award of work and forfeiture of the Earnest Money. In case of BRO enlisted contractor amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO, issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the earnest Money is deposited in Government Treasury.

12.3 In the event of contract being cancelled, under Condition 52, 53 & 54 of IAFW-2249 or under conditions 26, 27 & 28 of IAFW -1815Z General Conditions of Contracts the

Performance Security & retention money as per last RAR shall be forfeited. ALL T&P and material of contra for lying at site shall be confiscated by the Government and shall be absolutely at the disposal of the President of India and no compensation whatsoever shall be allowed by department.

12.4 Form for Bank Guarantee Bond against Performance Security Deposit shall be as per **Annx-III**.

12.5 The period of validity of the Bank Guarantee Bond against Performance Security shall be upto and including the scheduled date of expiry of Defects Liability Period.

13. The Accepting Officer reserves the right to accept a tender submitted by a Public Undertaking, giving a purchase preference over other tender(s) as are admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible to such tenders whose tenders may be rejected on account of the said policy.

14. **The tender shall remain open for acceptance for a period of 120 days from bid submission end date.**

15. On acceptance of tender, the name of authorized representative (s) of the contractors who would be responsible for taking instructions from Engineer-in-Charge or its authorized representative shall be intimated by the contractor within 7 days of issue of Acceptance letters.

16. **Revision/Modification of quoted Price**

(a) In case the tenderer has to revise /modify /withdraw his quoted rates / offer after it is uploaded in e-tendering portal he may do so on before bid submission end date & time in in e-tendering portal only. Any revision/ modification in offer / withdrawal of offer in the form of an open letter after bid submission end date & time and the same shall be considered as revocation of offer and shall not be taken into account, while considering his originally quoted offer.

17. **Revocation of offer**

In the event of lowest tenderer revokes his offer or revise his rates upward (which will be treated as revocation of offer), after bid submission end date and before expiry of original validity period stipulated in tender documents, the earnest money deposited by him shall be forfeited. In case of BRO enlisted contractors, the amount equal to the earnest money stipulated in the Notice Tender, shall be notified to the tenderer for depositing the amount through MRO, failing which the amount shall be recovered from any payment due to such contractor or shall be adjusted from the Standing Security Deposit. In addition, L-1 tenderer revoking offer and his related firms shall not be issued the tender in second or subsequent calls of subject work.

18. **Tenderers are requested to quote rates both in figure and words against each item of Schedule 'A' and extend the amount in Schedule 'A'.**

19. **All the tender documents (Part-I & Part-II) shall be submitted together at one stage but placed in separate sealed envelopes (supplied by the tenderer) duly marked Part I and Part II as stated above.** All the two envelopes containing Part I and Part II duly sealed shall be put in one large size envelope (cloth lined, outer cover to be supplied by the tenderer). This outer cover shall indicate name of work, name of tenderer, last date and time of receipt of tender prominently.

20. **The tender documents (Part-I and Part-II) should be submitted/should be dropped in Tender Box kept at the office of Accepting Officer Chief Engineer Project Dantak, Simtokha, Thimphu or at Transit Camp located at 1644 Pioneer Company, 19 BRTF, Jaigaon, West Bengal PIN-736182, Ph 9149553650/9877069433 before the date and time fixed for receipt of tender.** The tender received after due date and time shall not be considered for acceptance. BRO shall not be responsible for any postal or other delay and shall not take care to ensure the submission of tender at place and time fixed for receipt of tender.

21. Tender shall be opened immediately after time indicated in Para 1 herein before in the presence of the tenderers or their authorized representative whoever wish to be present. Part-I only shall be opened first on **25 May 2026 at 1530 hrs (BST)**. Part II (Priced bid) shall not be opened. Part II (Price bid) envelopes shall be signed by the tender opening officers and some bidders present and shall be put in separate large envelope and sealed by the opening officers. Large envelop shall also be signed by the tender opening officers and some bidders present. This large size envelope containing unopened price bids shall be kept in safe custody of the officer nominated by the Accepting officer for this purpose.

Part I (Technical Bid) will be evaluated as per technical evaluation criteria given in the tender documents. Unqualified tenders will also be informed and their Part II (Price Bid) shall be returned unopened separately. The date of opening of price bids will be intimated separately to the qualified firms and the Part II (Priced Bid as sealed in large size envelope) will be opened on the scheduled date in the presence of such tenderers who choose to be present and the amounts quoted by the tenderers shall be read out by the opening officer(s) to the tenderers.

Yours Faithfully

(Signature of the Contractor)

For Accepting Officer

Enclosures: Tender Documents

**ANNEXURE -II**

**To be signed by the bidder and same signatory competent/authorized to sign the relevant Contract on behalf of BRO**

**INTEGRITY PACT**

This Integrity Pact is made at .....on this ..... day of..... 2026

**BETWEEN**

President of India represented through **Chief Engineer Border Roads Organisation, Ministry of Defence, CE (P) Dantak PIN : 931708, C/O 99 APO.**

**'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 Bidder/Contractor)

(Hereinafter referred to as the through

(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. **CE (P) DANTAK/01 /2026-27** (hereinafter referred to as "Tender/Bid") and intends to award, under laid down, organizational procedure, contract for

.....

...

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

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:

Signature of Contractor

For Accepting Officer

## 1. Commitment of the Principal/Owner

- (a) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
- (i) 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. “
  - (ii) 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
  - (iii) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (b) 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.

## 2. Commitment of the Bidder (s)/Contractor(s)

- (a) 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,
- (b) 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:
- (i) 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.
  - (ii) 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.
  - (iii) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/ Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and

business details, including information contained or transmitted electronically.

(iv) 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.

(v) 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.

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

(d) 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.

(e) 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).

### **3. Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/owner under law or the Contractor 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:

(a) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Para 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.

(b) 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 para 3(a), 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 / Security Deposit of the Bidder/Contractor.

(c) 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.

#### **4. Previous Transgression**

(a) 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.

#### **5. Previous Transgression**

(a) 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.

(b) 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.

(c) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, (he Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **6. Equal Treatment of all Bidders/Contractors/Subcontractors**

(a) 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/P act by any of its Subcontractors/sub-vendors.

(b) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

(c) The Principal/owner will disqualify Bidders, who do not submit, the any 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.

#### **7. Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor after the final payment under the contract has been made 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, BRO.

## 8. Other Provisions

- a. This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the formation of the Principal/Owner, who has floated the Tender.
- b. Changes and supplements need to be made in writing. Side agreements have not been made.
- c. 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.
- d. 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 intentions.
- e. 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.

## 9. 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.

## 10. Independent Monitors

- a. That the MoD has appointed following Independent Monitors for this Pact:-
  - (i) **Shri Narayan Murthy Ganapathy, IFoS (Retd)**  
E Mail : [gana\\_narayan@yahoo.com](mailto:gana_narayan@yahoo.com) Mob No. 94151 47429
  - (ii) **Shri Lalatendu Mohanty , IPS (Retd)**  
E Mail: [L.mohanti@gmail.com](mailto:L.mohanti@gmail.com), Mob No. 97170 95659
  - (iii) **Shri Sanjay Singh, Dir (Contracts), Email: [ddgepcncontract@bro.gov.in](mailto:ddgepcncontract@bro.gov.in)**

Any complaint with regard to violation of IP, whenever received, will be referred to the Independent Monitors for their comments / enquiry.

- b. The task of the Monitor is to review independently and objectively, any complaint received with regard to violation of Integrity Pact and offer comments or carry out enquiry as deemed fit.
- c. That the Monitor is not subject to any instructions by the representatives of the parties and would perform his functions neutrally and independently.
- d. That the, Bidder/Contractor accepts that if the Monitor needs to access any records, then the Monitor shall have the right to access without restriction to all project documentation of the Principal/owner including that provided by the Bidder/Contractor. The Bidder/Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation including minutes of meeting. The same is applicable to Sub - Contractors and Associates. The Monitor is under obligation to treat the information and documents of the principal/owner and Bidder/Contractor/ Sub-

Contractors/ Associates with confidentiality.

e. That if the Monitor has reported to the Principal/Owner a substantiated suspicion of an offence under relevant Anti Corruption Laws of India and the Principal/owner has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Department, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

f. The word 'Monitor' would include singular and plural.

(For and on behalf of Bidder/Contractor)

(For and on behalf of Principal/Owner)

WITNESSES:

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

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

Dated:

**INTEGRITY PACT**

To,

The Chief Engineer  
HQ Project Dantak  
Accepting Officer

Sub: Submission of **“PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER’S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.”**

Dear Sir,

I/We acknowledge that BRO is committed to follow the principles thereof as enumerated in the integrity Pact 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 integrity Pact, which is an integral part of tender document, 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 the conditions of the NIT.

I/We confirm acceptance and compliance with the Integrity Pact in letter and spirit and further agree that execution of the said integrity Pact shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by BRO. I/We acknowledge and accept the validity of the Integrity Pact, which shall be in line with para 15 of the enclosed Integrity Pact

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

Yours faithfully

(Duly authorized signatory of the Bidder)

Signature of Contractor

For Accepting Officer

**INTEGRITY PACT**

To,

-----  
-----  
-----

**SUB: PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

Dear Sir,

It is hereby declared that BRO 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 Pact which is an integral part of tender/bid documents, falling 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 Pact and signing of the same shall be deemed as acceptance and signing of the Integrity Pact on behalf of the BRO.

Yours faithfully

Chief Engineer  
Project Dantak

**ANNEXURE -III**  
**PERFORMANCE GUARANTEE BOND**

1. In consideration of the President of India (hereinafter called "the government") having agreed to **exempt**..... (hereinafter called "the said Contractor's) from the demand. under the terms and conditions of an Agreement dated.....Made between.....  
.....and.....for.....

....  
(hereinafter called "the said Agreement") of Security deposit for the due fulfilment by the said contractors of the terms and conditions contained in the said Agreement on production of a Bank Guarantee for Rs .....( Rupees.....only) we.....  
.....bank Ltd (hereinafter referred as the Bank) do hereby undertake to pay to the Government an amount not exceeding. Rs .....Against any loss or damage caused to or would be caused to or suffered by the Government, by reason of any breach by the said contractor(s) of any the terms or conditions contained in the said Agreement.

2. We..... Bank Ltd. Do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government, stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement or by reason of the contractor's (s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee shall be restricted to an amount not exceeding Rs..  
.....

3. We..... Bank Ltd. Further agree that 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 the virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till... ..(Office/ Department). Ministry of..... Certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made to us in writing on a before the .....we shall be discharged from all liability: under this guarantee thereafter.

4. We..... Bank Ltd. Further agree with the Government that the Government shall have the fullest liberty without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time: or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to 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 or omission on the part of Government or any indulgence by the Government to the said contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. We..... Bank Ltd. lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.

Signature of Contractor

For Accepting Officer

Appendix 'A'  
(Ref Para-15 (f) of Forwarding Letter)

**UNDERTAKING BY AUTHORISED SIGNATORY**

I, the undersigned do hereby under take that our firm M/s

\_\_\_\_\_

\_\_\_\_\_ agree to abide by Terms and Conditions of subject Tender for **PROVIDING AND LAYING OF WMM 100 MM (1<sup>ST</sup> LAYER) & 100 MM (2<sup>ND</sup> LAYER) COMPACTED THICKNESS, DBM 60 MM COMPACTED THICKNESS, AC 40 MM COMPACTED THICKNESS INCLUDING APPLICATION OF PRIME COAT, TACK COAT, ROLLING AND COMPACTION AS PER MoRT&H SPECIFICATIONS FOR CARRYING OUT SURFACING WORK BETWEEN KM 26.000 TO KM 59.000 ON ROAD KHOTAKPA-TSHOBALEY UNDER 64 RCC/19 BRTF OF PROJECT DANTAK INSIDE BHUTAN..** from Page No. 01 to 195 is advertised on the [www.eprocure/epublish/app](http://www.eprocure/epublish/app) and it shall be binding on us and may be accepted at any time before the expiration of stipulated tender conditions.

\_\_\_\_\_  
(Signed by an Authorized Officer of the firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Date

[In lieu of IAFW-1779-A (to be use in conjunction with General Conditions Of Contract based on and IAFW-2249) (1989 Print)]

**CHIEF ENGINEER PROJECT DANTAK**

http : //www.bro.gov.in

E-mail : brodtk@gmail.com

Tele : +975 - 2351082/2351086/2351088

Fax : +975-2351285

Headquarters

Chief Engineer

Project Dantak

PIN : 931708

C/O 99 APO

80630/ /E8

Apr 2026

**NAME OF WORK: PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

Dear Sir (s),

Mrs/Mr \_\_\_\_\_

of \_\_\_\_\_ is/are hereby authorised to tender for the above work. The tender is to be delivered at the Office of the Chief Engineer, Project DANTAK, **Simtokha, Thimphu** or at **Transit Camp located at 1644 Pioneer Company, 19 BRTF, Jaigaon, West Bengal PIN-736182, Ph 9149553650/ 9877069433 up to 1730 hrs (BST)/1700 hrs (IST) on 21 May 2026 and Technical Bid (Part-I) of the tender documents will be opened at 1530 hrs (BST) on 25 May 2026.** addressed to Headquarters, Chief Engineer, Project Dantak, PIN – 931708, C/o 99 APO '**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**' to be opened on 25 May 2026 at 1530 hrs (BST).

All documents must be returned whether or not a tender has been submitted.

Any correction concerning this tender should be addressed as indicated at the top of this sheet, quoting the reference as given.

**THE PRESIDENT OF INDIA DOES NOT BIND HIMSELF TO ACCEPT THE LOWEST TENDER OR ANY TENDER**

Signature of Contractor

For Accepting Officer

**BORDER ROADS ORGANISATION**  
**CHIEF ENGINEER PROJECT DANTAK**  
**NOTICE INVITING TENDER- 18 OF 2025-26**

1. A sealed tender is invited for **“PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER’S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.”**

2. Tender documents may be downloaded from central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt) as per the schedule as given in **CRITICAL DATE SHEET** as under and printout is to be taken on A4 size paper. It is advisable that the downloaded tender document to be printed through laser printer preferably. Submission of photocopy of tender is not permitted.

**CRITICAL DATE SHEET**

01	Publishing date & time on CPPP website	28 Apr 2026 at 1630 Hrs
02	Bid document download start date	28 Apr 2026 at 1700 Hrs
03	Clarification start date & time (Pre Bid queries)	29 Apr 2026 at 1100 Hrs
04	Clarification end date & time	05 May 2026 at 1600 Hrs
05	Bid submission start date & time	06 May 2026 at 1100 Hrs
06	Bid submission end date & time	21 May 2026 at 1700 Hrs
07	Opening date & time of Technical bid	25 May 2026 at 1530 Hrs
08	Opening date of Financial bid	Will be intimated later

3. The estimated cost of work is **Rs 158.17 Lakh (Rupees One Hundred Fifty Eight Lakh Seventeen Thousand only)** approximately or as subsequently amended in tender documents and uploaded in central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt). This estimate, however, is not a guarantee and is merely given as a rough guide, and if work costs more or less, tenderer shall have no claim on that account of what so ever nature.

4. The tender shall be based on Specifications, **General Conditions of Contracts IAFW-2249 and item rate contract form based on IAFW 1779-A with Schedule "A"** (List of works) to be priced by tenderers.

5. Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstances will a father or his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common), be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both the parties liable to rejection.

6. The work is to be completed within **180 days** or as subsequently amended in tender documents or uploaded on central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt) in accordance with the phasing, if any, indicated in the tender from the date of handing over the site, which will be generally within one month from the date of issue of Acceptance letter.

Signature of Contractor

For Accepting Officer

**NOTICE INVITING TENDER (CONTD)**

7. Tender (in full) either downloaded from CPP Portal website will be received at HQ CE (P) Dantak, C/o 99 APO or at OIC liaison cell located at Supervisor Mess 19 BRTF, Jaigaon, West Bengal, PIN-736182, Ph **9149553650/9877069433** at **1730 hrs (BST)/1700 hrs (IST) on 21 May 2026**. Part - I un-priced bid will be opened on **25 May 2026** at **1530 hrs (BST)** Tender received after due date shall not be considered for opening and no reason for delay or claim whatsoever shall be entertained.

8. **The Chief Engineer (P) Dantak, C/O 99 APO will be Accepting Officer** hereinafter, referred to as such for the purpose of this contract.

9. Intending tenderers are advised to visit central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt) three days prior to date of opening of tender for any corrigendum/addendum/amendment.

10. Earnest money is not required to be attached with tender by the valid enlisted contractors with BRO who have submitted standing security deposit and MSME registered firms as per Rule 170 (i) of GFR 2017 but it is required from other contractors and to be attached with Technical Bid for **Rs 2,33,170.00 (Rupees Two Lakh Thirty Three Thousand One Hundred Seventy only)** in the shape of Call Deposit Receipt/Term Deposit Receipt/Special Term Deposit Receipt /Bank Guarantee in favour of Chief Engineer Project Dantak C/o 99 APO obtained from any Nationalized /Schedule Bank having maturity/validity period 90 days more than validity period of his offer.

11. **Successful Bidder (L-1) shall deposit to Accepting Officer a Performance Security for an amount of 5% of contract sum (Amended vide HQ DGBR letter No. 24228/DGBR/Policy Instr/2023/32/E8 dated 28 Mar 2023) in the shape of Bank Guarantee or FDR within 28 days of issue of LoA.**

12. Copies of drawings (if applicable) and other documents pertaining to the work (signed for the purpose of identification by the Accepting Officer or his accredited representative) and sample of materials and stores to be supplied by the contractor will be opened for inspection at the following locations:-

**Chief Engineer (P) Dantak, C/o 99 APO**

13. The tenderer are advised to visit the site by making prior appointment with Commander, 19 Border Roads Task Force, C/o 99 APO sufficiently in advance (Telephone No of Commander, 19 BRTF at **009755- 252201**). A tenderer shall be deemed to have full knowledge of all relevant documents, local conditions, sites etc. For further details tenderer may contact telephonically if required, SW, Project Dantak at **+975 – 2351082/2351086** during office hours.

14. A tenderer shall be deemed to have full knowledge of all relevant documents, samples, site etc whether he has inspected them or not.

15. Any qualification documents/tender which stipulates any alterations to any of the conditions laid down or proposes any other conditions of any description what so ever, is liable to be rejected.

16. The Accepting Officer reserves his right to accept a tender submitted by a public undertaking, giving a price preference over other tender (s) which may be lower, as are admissible under the Govt. policy. No claim for any compensation or otherwise shall be admissible from such tenderer (s) whose tenders may be rejected on account of the said policy.

17. **The submission of tender by a tenderer implies that he had read this notice and conditions of contract and has made himself aware of the scope and specifications of the work to be done and of the conditions rates at which stores, tools and plants etc will be issued to him, local conditions and other factors bearing on the execution of the work**

**NOTICE INVITING TENDER (CONTD)**

18. The Pre-Contract Integrity Pact has been signed by Accepting Officer or by the Officer specifically designated by him and scanned copy uploaded as part of NIT along with tender documents. Integrity Pact duly signed on each page by the bidder(s) shall be submitted as part of technical bid (Cover-I).

19. The hard copy of original instruments in respect of earnest money, under taking regarding acceptance of tender conditions, Enlistment letter if firm is enlisted in BRO, EPFO, Registration letter, GST Registration and any other document required to be submitted with respect to various conditions mentioned in the tender documents should be attached with tender documents

20. Blank.

21. Blank.

22. Blank.

23. In case of rejection of technical bid, contractor may appeal to next higher engineer authority i.e. HQ DGBR on email [bro-e8@nic.in](mailto:bro-e8@nic.in) with copy to the Accepting Officer i.e. CE on email [bro-dtk@nic.in](mailto:bro-dtk@nic.in) against rejection within 05 days from the date of publishing of result of technical bid qualification on CPP Portal whose decision shall be final and binding. If the appeal is not made within this period, the bidder shall forfeit his right of appeal against rejection of his technical bid. Any appeal received after 05 days of such publication of result shall not be entertained under any circumstances. The next higher engineering authority shall preferably try to resolve the issue within 05 days of such representation. However, contractor/bidder shall not be entitled for any compensation whatsoever on account of rejection of technical bid.

24. For any further particulars, you may refer central public procurement portal site <http://eprocure.gov.in/eprocure/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt).

25. Blank.

26. In the event of lowest tenderer revoking his offer or revising his rates upward (which will be treated as revocation of offer), after opening of tenders, the earnest money deposited by him shall be forfeited. In case of BRO enlisted contractors, the amount equal to the earnest money stipulated in the Notice of tender, shall be notified to the tenderer for depositing the amount through MRO, failing which the amount shall be recovered from payment due to such Contractor or shall be adjusted from the Standing Security Deposit. In addition, such tenderer and his related firm shall not be issued the tender in second or subsequent calls.

27. Important- Above particulars may change due to Administrative or any other reasons and shall be available in central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt) Therefore, bidders/contractors are requested to visit central public procurement portal site <http://eprocure.gov.in/epublish/app>, BRO website [www.bro.gov.in](http://www.bro.gov.in) and CAB website [www.cab.org.bt](http://www.cab.org.bt) frequently and at least once again 03 (three) days prior to bid submission date as per critical date sheet, for any changes in above particulars.

28. Blank

29. The tender shall remain open for acceptance for a period of **120 days** from bid submission end date.

30. The tender may be accepted as whole.

31. This notice of tender shall form part of the contract.

No.80630/ /E8

**Headquarter**

Chief Engineer  
Project Dantak  
PIN : 931 708  
C/O 99 APO

EE (Civ)  
For Accepting Officer  
Dated : Apr 2026

**NOTICE INVITING TENDER (CONTD)**

**Distribution :- For info and wide publicity please.**

1.	HQ DGBR/E8 Seema Sadak Bhawan Ring Road, Delhi Cantt New Delhi – 110 010	2.	HQ DGBR/B&T Dte Seema Sadak Bhawan Ring Road, Delhi Cantt New Delhi – 110 010	3.	HQ DGBR/East Dte Seema Sadak Bhawan Ring Road, Delhi Cantt New Delhi – 110 010
4.	HQ ADGBR (North-West), Sec-48-C, Near Motor Market, Chandigarh-160047	5.	HQ ADGBR (East) PIN-900885 C/o 99 APO	6.	R&D Estt PIN-931723 C/o 99 APO
7.	The Chief Engineer, MES, Shillong Zone, Shillong, Meghalaya	8.	MES Builders Association of India, 807, Sahyog 58, Nehru Place, New Delhi-110 019.	9.	HQ 19 BRTF PIN : 930019 C/O 99 APO
10.	60 RCC (GREF) PIN : 930060 C/O 99 APO	11.	63 RCC (GREF) PIN : 930 063 C/O 99 APO	12.	64 RCC (GREF) PIN : 930 064 C/O 99 APO
13.	102 RCC (GREF) PIN : 930102 C/O 99 APO	14.	Builder Association of India, G1/G20 Commerce Centre, Dodajee Road, Tardeo, Mumbai-400034.	15.	CPWD Contractor's Association, B-Wing, I.P. Bhawan, New Delhi- 110002 Contractors_asso@yahoo.in
16.	HQ CE (P) Arunank, PIN 931719, C/o 99 APO	17.	HQ CE (P) Brahmanak, PIN 931722, C/o 99 APO	18.	HQ CE (P) Beacon, PIN 931706, C/o 56 APO
19	HQ CE (P) Chetak, PIN 931707, C/o 56 APO	20	HQ CE (P) Deepak, PIN 931709, C/o 56 APO	21	HQ CE (P) Himank, PIN 931710, C/o 56 APO
22.	HQ CE (P) Sampark, PIN 931712, C/o 56 APO	23.	HQ STF HIRAK, PIN 931724, C/o 56 APO	24.	HQ CE (P) Shivalik, PIN 931718, C/o 56 APO
25.	HQ CE (P) Yojak, PIN 931720, C/o 56 APO	26.	HQ CE (P) Vijayak, PIN 931721, C/o 56 APO	27.	HQ CE (P) Pushpak, PIN 931711, C/o 99 APO
28.	HQ CE (P) Sewak, PIN 931714, C/o 99 APO	29.	HQ CE (P) Vartak, PIN 931716, C/o 99 APO	30.	HQ CE (P) Udayak, PIN 931715, C/o 99 APO
31.	HQ CE (P) Swastik, PIN 931717, C/o 99 APO	32	CE Siliguri Zone (MES) Sevoke Road Post Salugara, West Bengal- 734001 cezs2-mes@nic.in	33	Shri Narayan Murthy Ganapathy, IFoS (Retd)  E Mail : gana_narayan@yahoo.com

<b>NAME OF WORK:</b>	<b>PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.</b>
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**GENERAL CONDITION OF CONTRACTS**

**IAFW -2249**

**FOR**

**ITEM RATE CONTRACTS (IAFW-1779 A)**

1. A copy of General Conditions of Contract (IAFW-2249: Print 1989) with Errata 1 to 20 and Amendments Nos. 1 to 48 is in my/our possession. I/we has/have read and understood the provisions contained in the aforesaid GENERAL CONDITIONS OF CONTRACTS before submission of this tender and I/we agree that I/we shall abide by the terms and conditions thereof.

2. It is hereby further agreed and declared by me/us that the GENERAL CONDITIONS OF CONTRACT, including Condition No. 70 thereof pertaining to the settlement of disputes by Arbitration (IAFW-2249) and Condition No 71 pertaining to appointment of Dispute resolution Board shall form part of this tender documents.

3. Wherever the phrases Commander Works Engineer (CWE) and Garrison Engineer (GE) have been used in the General Conditions of Contract (IAFW-2249) the same are considered as Task Force Commander (TFC) and OC Contract respectively as applicable in Border Roads Organisation.

**Note:** - Copy of General Condition of Contracts IAFW-2249 can be referred in the office of HQ CE (P) Dantak/HQ 19 BRTF (GREF), if required.

Signature of Contractor

For Accepting Officer

## SPECIAL CONDITIONS

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

### **1. GENERAL**

The following Special Conditions shall be read in conjunction with General Conditions of contracts **IAFW-2249**, including amendments thereto, and whereas variation exists the Special Conditions shall take precedence over the aforesaid General Conditions.

The Special Conditions given in succeeding paragraphs shall be read in conjunction with Schedule A, technical specifications and General Conditions of Contracts IAFW-2249. In case of any discrepancies in the various provisions of the contract, the following order of precedence shall be observed: -

- (a) Description given in Schedule 'A'.
- (b) Particular/Technical Specifications.
- (c) Drawings and sketches.
- (d) Ministry of Road Transport & Highways (MoRTH) specifications for Road and bridge works published by Indian Roads Congress New Delhi (Vth Revision).
- (e) Special conditions.
- (f) General conditions of contracts.

### **2. INSPECTION OF SITES**

The contractor is particularly advised to inspect the site (s) of work by making prior appointment with the **Chief Engineer Project Dantak, C/o 99 APO/ Commander 19 BRTF, C/o 99 APO, OC (Contracts)** so as to acquaint himself with regard to the nature and conditions of site, nature and means of local communication, working hours, conditions of access and all other cognate matters concerning the execution and completion of the work. Any paths, tracks, approaches etc, required for the movement of plants, equipments, machines and vehicles etc to the work site and plate form, bund etc required for the execution of work will be responsibility of the contractor and rates quoted must include these aspects also where required. The tenderer shall be deemed to have inspected the site and made himself familiar with various factors which may affect his quotation where he actually inspects the site or not. No extra charges consequent on misunderstanding or otherwise will be allowed.

### **3. LAND FOR OFFICES ETC**

The contractor shall have to make his/her own arrangements for the land as may be required by him/her for housing of staff and labour and for erection of store sheds, offices, godowns etc., required by him/her for this work. The contractor must ensure that the staff, labour, plant, equipments, machines, vehicles, stores etc., employed or collected in connection with the work are so located that there is no hindrance to free flow of traffic on the roads/highway. Suitable cautionary and warning signs and other measures are to be installed/provided by the contractor at his own cost for the safety of traffic.

**SPECIAL CONDITIONS (CONTD)**

**4. MINIMUM FAIR WAGES PAYMENT TO LABOUR**

(a) The contractor shall pay wages not less than the minimum fair wages fixed from time to time by the Central Govt/State Govt/Local Authorities. He shall have no claim whatsoever, if on account of any local regulations and/or otherwise, he is required to pay wages in excess of the wages so fixed.

(b) The contractor shall observe the laws/regulations applicable in the area regarding the employment of labour, payment of wages and other cognate matters relating to the conditions.

(a) In case local labourers are not available, the contractor may have to obtain written permit from the appropriate authority of State Govt. to import labour from outside the state.

(d). The contractor shall ensure compliance to all the labour wages laws and benefit rules for the labour employed by him.

(e) The contractor shall maintain muster roll of labourer engaged in the work along with wages being paid to labourer (trade wise). The muster roll shall be available at site for inspection by Engineer-in-Charge or any authorized Govt. Officials.

**5. ROYALTIES.** The Contractor shall make his own arrangement for procuring materials required under the contract and he shall ensure that the royalty for the material procured by him under this CA has been correctly paid to the concerned authority. **In this connection, a letter issued by Natural Resources Development Corporation Limited, RGoB vide letter No. NRDCL/HO/MRD/02/2024/303 dated 08 Mar 2024 shall be followed.** Any claim of royalty by the concerned department on the material procured under this CA shall be settled with concerned authority directly by Contractor. Further the contractor should ensure that the supply of material is not arranged illegally. An undertaking to this account will be given by contractor before payment of RAR/Final bill

**SPECIMEN COPY OF UNDERTAKING**

I / We, M/s \_\_\_\_\_ hereby declare that I /We have supplied the following materials against CA No. CE (P) Dantak/ / 2025-26 during the period from \_\_\_\_\_ to \_\_\_\_\_.

<b><u>Srl No.</u></b>	<b><u>Materials</u></b>	<b><u>Gross Quantity supplied</u></b>
(a)		
(b)		
(c)		

It is further certified that the royalty for the above quantity of materials at the applicable rates have been paid by us to the concerned department of the Govt.

(M/s \_\_\_\_\_)

Signature of Contractor

For Accepting Officer

**SPECIAL CONDITIONS (CONTD)**

**6. BLASTING ROCKS**

(a) The contractor shall be responsible for the safe custody and storage of blasting materials in accordance with the rules on the subject. Written authority of the Engineer-in-Charge/OC Contract shall be obtained before any blasting operations are commenced.

(b) The contractor shall ensure that the charges in blasting are not excessive and that the charged bore holes are properly protected before firing and that proper precautions are taken for the safety of men and property.

(c) Blasting should be generally avoided. In case it is unavoidable less charge-controlled blasting may be resorted with the prior permission of the Engineer-in-Charge/OC Contract. The contractor shall be bound to abide by the instructions of the Engineer-in-Charge/OC Contract regarding the necessity of blasting and the type, number size and pattern of holes to be drilled and also the type, amount and method of firing of explosive to be used. The Engineer-in-Charge/OC Contract shall reserve the right to restrict the number of charges to be fired at a time so that the hillside is not adversely affected. The contractor shall fire the charges only at such time as approved by the Engineer-in-Charge/OC Contract and shall have no claim, whatsoever, on account of any delay and extra cost due to carrying out the instructions of the Engineer-in-Charge/OC Contract and / or taking the safety precautions directed by him.

**7. MOVEMENT OF CONTRACTOR VEHICLES**

**7.1.** Minimum classification of existing bridges on the roads are Class 24/70 R bridges; contractor should not bring any heavier vehicle/plant/equipment as such vehicle/plant/equipment shall not be allowed on the bridges. The contractor's vehicle may be required to ply in convoys as per directions given by the concerned Civil/Military authorities. No extra payment/time will be admissible on this account.

**7.2.** In case the condition of these bridges warrants further downwards load classification due to any unforeseen circumstances, the same will be done by OC Contract whose decision shall be final and binding. In case of any such eventuality, the contractor may have to unload his heavy load carried at locations, indicated to suit the load classification indicated by the OC Contract. Any such heavy load carriage thus necessitated across such indicated bridge(s) shall have to be done by the contractor without any additional payment and no claim whatsoever on this account will be entertained.

**8. SECURITY RESTRICTIONS**

**8.1** Contractor intention is invited to condition 25 of IAFW-2249 contractor shall employ only Indian National/Bhutanese after verifying their antecedents and loyalty. The contractor shall on demand by the Engineer-in-Charge / OC Contract, submit list of his agents, employees and work people concerned and shall satisfy the Engineer-in-Charge / OC Contract as to the Bonafide credential of such people.

**8.2** The contractor and his workmen shall observe all the rules promulgated by the authority controlling the area in which work is to be carried out e.g. prohibition of smoking, lighting, fire precautions, search of persons on entry and exit, keeping to

specified routes and restricted hours of work etc. Thorough search of all persons and transport may be conducted by the departmental authorities at the site of works at any time and any number of times for security reasons Necessary Permits are to be obtained from Civil Authorities by the contractor, for himself, his staff and labour. Nothing shall be paid extra on this account. During currency of the contract, if anybody is suspected to have any connection with anti-national elements/activities, he will immediately be removed and contractor shall have no claim whatsoever on this account.

8.3 Necessary assistance will be extended to the contractor by the department for providing passes/permits to the contractor, his representative and workmen to enter the state.

**9. FREE ACCESS TO SITES AND LOOKING AFTER OF WORKS**

The contractor shall give all reasonable facilities to this department personal for the inspection of the works being executed under this contract. He will also provide free access to the works if being executed by this department or other agencies and if such works are located near the sites covered under this contract. Responsibility of all the works covered in this contract will lie on the contractor and these works will be fully completed and accordingly handed over to this department.

**10. TAXES ETC.**

The tendered amount shall inter-alia be deemed to be inclusive of all taxes, viz., Work Contract Tax, Terminal Taxes, Toll taxes, Royalty, GST, Service Tax, or any other taxes and the like levies payable under the respective existing States etc. No claim on account of any taxes will be payable to contractor whatsoever except as provided in **sub para 11 (b)** here-in-after.

**10.1 GST/Sales Tax are as per applicable laws in Bhutan.** For any query regarding **applicability of GST/ sales tax** on import of goods and services **from India to Bhutan**, kindly refer to the Govt of Bhutan websites for detailed information.

**11. RE-IMBURSEMENT/REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE"(As per latest policy dated 24228/DGBR/Policy Instr/2017/100/E8 dated 25 Aug 2017)**

(a) The rates quoted by the contractor shall be deemed to be inclusive of all taxes, (including GST on materials, GST on Work Contracts, turnover tax, Labour Welfare cess /tax Ecological and Environment cess etc), duties, Royalties, Octroi & other levies payable under the respective statutes. No re-imbursalment /refund for variation in rates of taxes, duties royalties, Octroi & other levies, and / or imposition / abolition of any new/existing taxes, duties, royalties, Octroi & other levies shall be made except as provided in sub Para (b) here-in-below:-

(b) (i) The taxes which are levied by Govt. at certain percentage rates of Contract Sum / Amount shall be termed as "taxes directly related to contract value" such as GST on works contracts, turnover tax, Labour Welfare Cess /Tax and like but excluding Income Tax. The tendered rates shall be deemed to be inclusive of all "taxes directly related to contract value" with existing percentage rates as prevailing on last due date for receipt of tenders. Any increase in percentage rates of "taxes directly related to contract value" with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the contractor and any decrease in percentage rates of "taxes directly related to contract value" with

reference to prevailing rates on last due date for receipt of tenders shall be refunded by the contractor to the Govt. / deducted by the Govt. from any payment due to the contractor. Similarly, imposition of any new "taxes directly related to contract value" after the last due date for receipt of tenders shall be reimbursed to the contractor and abolition of any "taxes directly related to contract value" prevailing on last due date for receipt of tenders shall be refunded by the contractor to the Govt. /deducted by the Govt. from the payments due to the contractor.

(b) (ii) The contractor shall, within a reasonable time of his becoming aware of variation in percentage rates and/or imposition of any "taxes directly related to contract value" give written notice thereof to the OC Contract stating that the same is given pursuant to this Special Condition, together with all information relating thereto which he may be in a position to supply. The contractors shall submit the other documentary proof /information as the OC may require.

(b) (iii) The contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Govt., and shall further, at the request of the OC furnish, verified in such a manner as the OC Contract may require, any documents so kept and such other information as the OC may require.

(b) (iv) Reimbursement for increase in percentage rates /imposition of "taxes directly related to contract value" shall be made only if the contractor necessarily & properly pays additional "taxes directly related to contract value" to the Govt. without getting the same adjusted, against any other tax liability or without getting the same refunded from the concerned Govt. Authority and submits documentary proof for the same as the OC may require".

**12. SECURITY OF DOCUMENTS**

The contractor shall not communicate any classified information regarding works/organisation either to the sub contractor or others without prior approval of the Engineer-in-Charge. Any violation on this aspect will be forfeit the right of the contractor to claim any amount due to the contractor whatsoever held with organisation.

**13. FOREIGN EXCHANGE/IMPORT LICENCE**

No foreign exchange and/or import license will be arranged by the Department in the connection of work under this contract.

**14. Deleted**

**16. SECURITY OF CLASSIFIED DOCUMENTS**

Contractor's special attention is drawn to Condition 2-A and 3 of General Conditions of Contracts (IAFW-2249). The contractor shall not communicate any classified information regarding works either to sub-contractors or others without prior approval of the Engineer-in-Charge. The contractor shall also not make copies of the design/drawings and other documents furnished to him in respect of the works and he shall return all documents on completion of the work or on earlier determination of the contract. The contractor shall alongwith final bill attach a receipt from Engineer-in-Charge in respect of his having returned the classified documents as per Condition 3 of General Conditions of Contracts (IAFW-2249).

SPECIAL CONDITIONS (CONTD)

17. **Deleted**

18. **Deleted**

19. **Deleted.**

20. **Deleted.**

20.3 **Deleted**

20.4 The contractor shall, on demand, produce to the OC Contract, original receipted vouchers/invoices in respect of the materials purchased. Vouchers/invoices so produced and verified shall be stamped by Engineer-in-Charge indicating contract number. The contractor shall ensure that the materials are brought to site, in original sealed containers/packing, bearing manufacturer's marking except in the case of the requirement of materials(s) being less than smallest packing.

20.5 Deleted

20.6 The vouchers/invoices will clearly indicate the contract number and the IS No., specific alternative to which the material conforms in case of various alternative in IS.

21. **FOSSILS**

**21.1** All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the site shall be placed under the care and authority of the Employer. The contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any these findings.

**21.2** The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer-in-Charge/OC Contract, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs Cost from complying with the instructions, the Contractor shall give a further notice the Engineer- in-Charge/ OC Contract describing in detail the delay sustained by him and cost measured by him for following the instructions of the Engineer-in-Charge/OC Contract in dealing with the fossils along with all supporting documents/proof, within 7 days of the occurrence. The Contractor then be certified for the following: -

(a) An extension of time for any such delay, if completion is or will be delayed due to such act in following the instructions of the Engineer-in-Charge/OC Contract.

(b) Payment of any such cost, which shall be included in the Contract Price.

**21.3** After receiving this further notice, the Engineer-in-Charge/OC Contract shall examine the case with facts and figures and disagreements if any will be communicated to the contractor.

**21.4** In case of any disputes, the matter shall be referred to the Accepting Officer whose decision shall be final and binding.

SPECIAL CONDITIONS (CONTD)

**22. TIME AND PROGRESS CHART**

(a) The time and progress chart to be prepared as per the General Condition of Contract shall consist of detailed network analysis and a time schedule. The critical path network will be drawn jointly by the OC Contract and the Contractor soon after acceptance of the Tender. The time scheduling of the activities including a network for the preliminary arrangements for mobilization of resources e.g. manpower, plants and machineries will be done by the Contractor, so as to complete the work within stipulated time.

(b) On completion of the time schedule a firm calendar date schedule will be prepared and submitted by the contractor to the OC Contract who will approve if after due scrutiny. The schedule will be submitted in quadruplicate within six weeks from the date of handing over the site.

(c) During the currency of work, the Contractor is expected to adhere to the time schedule and this adherence will be a part of the contractor's performance under the contract. During the execution of the work, the Contractor is expected to participate in the review and updating the network undertaken by OC Contract. These reviews may be undertaken at the discretion of the OC Contract either as periodical appraisal measure or when the quantum of work ordered on the Contractor is substantially changed through deviation order or amendments. Any revision of the schedule as a result of the review will be submitted by the Contractor to the OC Contract within a week who will approve it after due scrutiny. The Contractor will adhere to the revised schedule thereafter. In case of the contractor's not agreeing to the revised schedule the same will be referred to the Accepting Officer whose decision will be final, conclusive and binding. OC's approval to the revised schedule resulting in a completion date beyond the stipulated date(s) of completion shall not automatically amount to grant of extension of time. Extension of time shall be considered and decided by the appropriate authority mentioned in condition 11 of General Conditions of Contracts and separately regulated.

(d) The Contractor is expected to mobilize and employ sufficient resources to achieve the detailed time schedule within the broad framework of the accepted methods of working and safety.

(e) No additional payment will be made to the contractor for any multiple shift work or other incentive methods contemplated by him in his work schedule even though the time schedule is approved by the department.

**23. PERMIT FROM LOCAL AUTHORITIES FOR PLYING VEHICLES**

Contractor shall make his own arrangements for obtaining necessary permit from local authorities for plying his equipments for the work in accordance with the rules and regulations of the land.

**24. ELECTRICITY AND WATER SUPPLY**

No electricity or water will be supplied by the department. The contractor shall make his own arrangement for execution of the work.

**SPECIAL CONDITIONS (CONTD)**

**25. RATE QUOTED**

(a) Unit rate shall be deemed to include the provisions for all materials, stores, labour, process, operations and requirements detailed in particular specifications irrespective of whether these appear as specific items or not in the Schedule A.

(b) The rate quoted shall also include transportation of equipment upto work site including loading/unloading.

**26. OFFICIAL SECRET ACT:** The contractor shall be bound by the Official Secret Act 1923.

**27. CLEANING DOWN:** Refer Condition 49 of General Conditions of Contracts (IAFW-2249). The Contractor shall clean all floors, remove cement, lime or paint drops, clean joinery, glass panels etc, touch up all paint work and carryout all necessary items of work in connection therewith and have the whole premises clean and tidy to the entire satisfaction of Engineer-in-Charge before handing over the items/works. No extra payment shall be admissible to the contractor for the operation.

**28. OCTROI, SALES TAX AND OTHER DUTIES:** The tenderer's rates shall be deemed to include all Duties, such as Octroi, GST, Excise, etc as referred in condition 10 of General Conditions of Contracts (IAFW-2249) and also include state Govt. sales tax on works contracts payable under respective states according to the condition (46th Amendment Act 1982). Any other conditions stipulated by the tenderer regarding sales tax on works contracts would not be considered and such tender shall be liable for rejection.

**29. DAMAGE TO EXISTING STRUCTURES:** Any damage to the existing structures, any existing road etc., during the execution of work shall be made good by the contractor at his own expense. Rectification, replacement, making good and touching up etc, shall be carried out, conforming to the materials and workmanship originally provided and to the satisfaction of the Engineer-in-Charge. In case of any dispute on this account, the decision of the OC Contract shall be final, binding and conclusive.

**30. APPROACHES:** The contractor shall make arrangements for and provide at his own cost all temporary approaches, if required to the site(s), after obtaining approval in writing of the OC Contract to the layout of such approaches.

**31. WATCH/LIGHTING:** The contractor shall at his own cost take all possible precautions to ensure safety of life and property by providing necessary fencing, barrier, light, watchmen etc., during the progress of work and as directed by the Engineer-in-Charge.

**32. HANDING OVER OF SITE:** Site for execution of work will be available as soon as the work is awarded. In case it is not possible to make the entire site available on the award of work, the contractor will have to arrange his working programme accordingly. No claim whatsoever, for not giving entire site on award of work and for giving site gradually, will be tenable.

**SPECIAL CONDITIONS (CONTD)**

**33. QUALIFIED TRADESMEN** In compliance with the condition 26 of IAFW-2249 (General Condition of Contracts), the contractor shall employ skilled/semi skilled tradesmen who are qualified and possessing certificate in particular trade from Industrial Training Institute (ITI)/National Institute of Construction Management and Research (NICMAR)/National Academy of Construction (NAC) Hyderabad, similar reputed and recognized-Institutes by State/Central Government, to execute the works of their respective trade. The number of such qualified tradesmen shall not be less than 25% of total skilled/semi skilled tradesmen required in each trade. The contractor shall submit the list of such tradesmen along with requisite certificate to OC Contract for verification and approval. Notwithstanding the approval of such tradesmen by OC Contract, if the tradesmen are found to have inadequate skill to execute the work of their trades, leading to unsatisfactory workmanship, the contractor shall remove such tradesmen within a week after written notice to this effect by the OC Contract and shall engage other qualified tradesmen after prior approval of OC Contract. OC Contract decision whether a particular tradesman possesses requisite qualification, skill and expertise commensurate with nature of work, shall be final and binding. No compensation what so ever on this account shall be admissible.

**34. APPOINTMENT OF ARBITRATOR IN CASE OF CONTRACT AGREEMENTS TO BE EXECUTED BETWEEN BRO AND GOVT OF INDIA UNDERTAKINGS/ ENTERPRISES.**

In the event of any dispute or difference between the parties hereto, such dispute of difference shall be resolved amicably by mutual consultation or through the good offices of empowered agencies of the Government. In the event of any such dispute or differences relating to the interpretation and application of the provisions of contracts where such resolution is not possible then the unresolved dispute or differences shall be referred by either party to the Arbitration of one of the Arbitrators in the department of Public Enterprises to be nominated by the Secretary to the Government of India In charge of the Bureau of Public Enterprises, and in such case the **Arbitration and Conciliation Act, 1996** shall not be applicable to the arbitration under this clause. The award of the Arbitrator shall be binding upon both the parties in the dispute. Provided, however, any party, aggrieved by such award, may make a further reference for setting aside or revision of the award to the law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Govt. of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

**35. MEASUREMENT**

Measurements pertaining to the work completed under this contract will be recorded and signed in the measurement book (IAFW-2261) by the Junior Engineer after taking in to account that the required laboratory tests have been done as per the limits stipulated and as per the frequencies laid down in the "Particular Specifications" of this contract agreement and MORTH Specifications for Road and Bridge Works (Latest revision) and connected documents thereof and test results are found satisfactory and proper records are maintained.

- (a) The measurement recorded by the Junior Engineer shall be 100% checked and signed by the Engineer-in-Charge.

**SPECIAL CONDITIONS (CONTD)**

- (b) 25% test check will be carried out by OC Contract on each day of measurement by the Engineer-in-Charge.
- (c) 5% test check will be carried out by the Cdr Task Force before making payment to the Contractor.
- (d) The measurements should also be signed by the contractor as token of acceptance of the measurement.
- (e) In case of discrepancies in arriving out work done details, the decision of the Accepting Officer will be final and binding for both the parties.

**36. ACCEPTANCE OF WORK DONE**

The Engineer-In-Charge shall exercise control over the quality of materials and work done by carrying out tests for the specified properties as per frequencies given in particular specifications and specifications of MORTH (Ministry of Road Transports and Highways) for Roads And Bridge (latest revision).

**37-39 Deleted**

**40. PAYMENT**

Payment to the parties will be made in INR in the following manner: -

- (a) No advance payment will be made to the contractor against any material if not properly safeguarded against loss / damage due to natural calamities / theft. (Condition 64 of IAFW-2249 shall be deemed amended to this extant).
- (b) No payment shall be made for any rejected work
- (c) Taxes (Income tax, GST, Labour Cess etc) shall be deducted at source from the payment due to contractors as per prevailing laws / statutory orders and TDS certificate shall be issued to the contractor.
- (d) All payments will be made by e-payment / account payee cheque.

**41. CO-OPERATION WITH OTHER AGENCIES**

The contractor shall permit free access and generally afforded reasonable facilities to other agencies or departmentally workmen engaged by the Govt to carry out their part of the work, is any, under separate arrangements.

**42. SUPPLY OF COLOUR RECORD PHOTOGRAPHS, ALBUMS AND VIDEO CDs**

Contractor shall provide/supply of colour record photographs, Album and video CDs at various stages/facts of the work without any extra cost as per clause 121 of MoRT&H specification for road and bridge works (Fifth Revision).

**43-47. Deleted**

**48. CONCILIATION**

1. Conciliation shall be conducted as laid down u/s 61 to 81 of Arbitration and Conciliation Act 1996 (Part III) unless specified otherwise here-in-after.

48.1.1 The scope of conciliation shall be restricted to the following types of disputes with financial limits as indicated therein: -

- (a) Disputes relating to levy of compensation for delay in completion, actual amount of compensation.
- (b) Disputes relating to technical examination of works.
- (c) Disputes relating to interpretation of the provisions of the contract with reference to their application to parties.
- (d) Disputes relating to non return of Schedule 'B' stores over-issued to contractor.
- (e) Disputes relating to assessment of loss/damage occurred in executed work only (and not for contractor's material & V/E/P) due to natural calamities.
- (f) Any other disputes having fair chances of being resolved by conciliation and considered fit to be conciliation by the parties.

#### **48.1 COMMENCEMENT OF CONCILIATION PROCEEDINGS**

48.1.1 The party initiating conciliation shall send to the other party a written invitation to conciliate, briefly identifying the subject of the dispute.

48.1.2 Conciliation proceedings shall commence when the other party accepts in writing the invitation to conciliate.

#### **48.2 Number of Conciliators**

48.2.1 There shall be a sole conciliator.

#### **48.3 Appointment of Conciliator**

48.3.1 All disputes brought out in Para 1.1.1 (a) to (f) above shall be referred to the Sole Conciliator viz Serving Officer not below the rank of Superintending Engineer having degree in Engineering or equivalent to be appointed by the concerned ADGBR or in his absence the Officer Officiating as ADGBR specifically delegated by the ADGBR in writing.

#### **48.4 STATUS OF EFFECT OF SETTLEMENT AGREEMENT**

48.4.1 The settlement agreement signed by the parties as a result of conciliation proceedings shall have the same status and effect as it is an arbitral award on agreed terms.

#### **49. DISPUTE RESOLUTION BOARD (DRB) APPLICABLE FOR CONTRACTS OF VALUE MORE THAN Rs.10 crore.**

(a) During execution of this works or after completion or after determination/cancellation/termination of the contract all disputes between the parties to contract arising out of the contract (except those for which decision of Accepting Officer or any other officer is expressed to be final and binding). Including any disagreement by either party with any action, inaction, opinion, instruction, certificate or valuation by the Accepting Officer or his nominee, the matter in dispute shall, in the first place be referred to the Dispute Resolution Board (DRB). In case of disagreement with the decision of such DRB, any party may invoke arbitration clause.

**SPECIAL CONDITIONS (CONTD)**

- (b) The constitution of the DRB shall be a three member body as under:-
- (a) Chairman : DDG of the concerned ADGBR. Where DDG is not posted in the ADGBR, any other senior level Col/Director posted in ADBR shall be nominated by ADGBR at his sole discretion.
- (a) Member 1 } Col/Director rank Officers of ADGBR or of any other  
(b) Member 2 } CE (Project) be nominated by ADGBR
- (c) The name of Chairman and members shall be notified by the Accepting Officer within one month of the date of acceptance of Contract.
- (d) Once the DRB is constituted the members and Chairman shall disclose in writing their neutrality and impartiality about any personal interest in the work.
- (e) The dispute shall be referred to the Chairman of DRB by the concerned party after giving notice to the other party for invoking of this clause.
- (f) The DRB shall decide the dispute in accordance with the terms of the Contract, principle of natural justice, equity and fair play.
- (g) The DRB may fix oral hearing at a place, date and time as decided by the Chairman.
- (h) The requisite administrative support to the DRB shall be provided by the Accepting Officer.
- (i) All the contract documents pertaining to the case shall be provided by the Accepting Office for reference by the DRB.
- (j) DRB shall give its decision on the disputes within three months of notice from any party invoking the DRB clause. This period can be extended by one month with the consent of the parties.
- (k) All the decisions given by the DRB shall be by majority and such decisions shall be communicated in writing by Chairman to the parties.
- (l) If the decision of the DRB is not to he satisfaction of either party or if the DRB fails to given decision within the laid down time either party shall indicate his reservations on the decision to Accepting Officer within 30 days of such decision and to refer that dispute for arbitration.
- (m) It shall be mandatory for the party invoking arbitration on any particular dispute to have first exhausted the remedy provided under the DRB clause for that particular dispute.
- (n) The mandate of the DRB shall terminate on completion of one year from the date of completion/determination/cancellation/termination of the contract.

Signature of Contractor

For Accepting Officer

- (o) If any member or Chairman of the DRB is unable to function due to any reason whatsoever, or he resigns his appointment, concerned ADGBR shall fill the vacancy so caused within 125 days of happening of such vacancy.
- (p) Any dispute referred to the DRB and having been decided by the DRB and not objected to by either party within 30 days shall attain finality and shall not be referable to arbitration.
- (q) Accepting Officer shall ensure implementation of the decisions of the DRB which attain finality, i.e. except those which are objected by him or by contractor within 30 days as per Para 2 above.
- (r) Findings and decision of DRB shall be admissible as evidence, to the extent permissible as per law, in the subsequent Arbitration and/ or litigation.
- (s) DRB Chairman/member shall not in any case, be liable to be called as witness or to produce any evidence in any Arbitration or departmental proceedings of any kind.
- (t) During execution of work the disputes may be referred to the DRB as per the requirement of each party after having exhausted the decision-making process provided in the contracts. In case of completion of work or after determination/cancellation/termination of the contract all the disputes including payment/non-payment/delay in final bill shall be simultaneously referred to the DRB within six months of completion/determination/cancellation/termination of contract.
- (u) The department case before the DRB shall be presented by Accepting Officer himself and/ or Dir (Contract) of CE Project assisted by Task Force Commander and his SW, OC RCC/BCC and any other officer and legal counsel nominated by Accepting Officer. The Contractor may present his case by himself and/ or by his nominated reps & authorized legal/technical counsel.

**50. ARBITRATION (REFER CLAUSE 70 OF CONDITION OF CONTRACT OF IAFW-2249)**

All disputes or differences arising as aforementioned, other than those for which the decision of the Accepting Officer or any other person is by the contract expressed to be final and binding shall be referred to sole arbitrator under condition No 70 of General Conditions of contract IAFW-2249 after written notice by either party of the contract to the other of them. In addition to above Arbitration and conciliation (Amendment) Act 2015 will also prevail.

**51. LEGAL JURISDICTION:** Legal jurisdiction for this contract agreement shall be “**Courts at Kamrup (M) /Guwahati in the State of Assam**”.

**52. HIRING CHARGES OF LAND:** Payment of rent for road side land if any where crusher and HMP plants will be installed based on the requirement of Daily works will be payable by Contractor and this will not be reimbursable by the Deptt.

**53. CONTRACT LABOUR (R&A) ACT 1970**

The contractor shall get himself registered with Regional Labour Commissioner, Guwahati as required under contract labour (Regulation and Abolition) Act 1970. If he does not fall within the purview of said act, he shall obtain a no objection certificate from ALC,

Jalpaiguri to above effect. A copy of the certificate of registration or the no objection certificate (as the case may be) shall be submitted by him to the Accepting Officer within 15 days of the award of the work. In the event of his non-compliance, the contractor shall be liable for punitive action under CL (R&A) Act 1970.

**54. LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION**

(a) If as a result of enemy action, the contractor suffers any loss or damage, the Government shall reimburse to the contractor such loss or damages, to the extend and in the manner herein after provided:-

(i) The loss suffered by him on account of any damage or destruction of his equipment (as defined in condition 11 (2) above), the amount of losses assessed by the Accepting Officer of the contract on this account shall be final and binding.

(ii) Compensation paid by him under any law for the time being in force to any workmen employed by him for any injury caused to him or the workmen's legal successor for loss of the workmen's life.

(b) No requirement shall be made nor shall any compensation be payable under the above provisions unless the contractor had taken Air Defence Precautions ordered in writing by OC concerned or in the absence of such orders, reasonable precautions. No re-imburement shall be made nor shall any compensation be payable for any equipments not laying on the site of work at the time of enemy action.

**55. REGISTRATION FEE/TRADE TAX/INCOME TAX ETC.**

Tendered rates/amount shall also be deemed to include the payment of all taxes like Registration fee, Trade Tax, Income Tax and other taxes/levies to be paid to the Govt of India/Royal Govt of Bhutan already in force and as may be modified from time to time. The contractor may ascertain full details on this respect from the concerned department(s).

**56. ADJUSTMENT OF TAX CONSEQUENT UPON AMENDMENT TO CONSTITUTION**

The tendered rate shall also be inclusive of all statute levies and State / Union Territory / shall tax on works contract payable under the respective statutes pursuant to the constitution stipulated by the tenderers regarding sales tax on works contracts will not be considered and such tender will be liable for reject

**57. ESCALATION:-** Deleted.

**58. INCOME TAX:-** Indian Income Tax @ 2% and BCT @ 5% for Indian Contractors and @ 2% for Bhutanese Contractors will be deducted at source as applicable.

**59. DEDUCTION OF TAX AT SOURCE:-** Indian Income tax and BCT shall be deducted at source as applicable

**60. REGISTRATION:-** Contractor is required to get his firm registered with GST and Asst Labour Commissioner of the area under Contract Labour (R&A) Act and Building and other construction workers Act. A Copy of valid registration certificate issued will be submitted to OC Contract while processing RARs / Bills.

**61. MANDATORY REQUIREMENT FOR MAKING PAYMENTS: E-PAYMENT THROUGH NEFT/RTGS/ECS/EBS (THIS SUPERSEDES CONDITION 66 OF GENERAL CONDITIONS OF CONTRACT OF IAFW-2249.**

61.1 All payment will be made through E-payment and hence tenderers must furnish NEFT Form duly signed by the Bank Authorities.

**Appendix-A to special conditions No 51**

**NEFT / RTGS MANDATE FORM**

1.	Name of Firm / contractor as per account in the Bank	
2.	Beneficiary's Account Number (As appearing on the Cheque Book)	
3.	Name of Bank where a/c is held	
4.	Name of Branch	
5.	Address of Branch	
6.	Telephone No. of Branch	
7.	IFSC Code of Branch	
8.	9-digit MICR Code Number of the Bank & Branch	
9.	E-mail ID of Contractor	

**Note:-** Please attach a blank cancelled cheque for verification of the above particulars.

I, hereby, declare that the particulars given above are correct and complete. If the transaction is delayed or not effected due to incomplete or incorrect information of the bank details, I will not hold the payment releasing authority responsible for it.

Dated:

Signature of the Contractor (Seal)

**CERTIFICATE BY BANK**

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

Seal of Bank

(Signature of the branch manager of the Bank)

Dated :

Signature of Contractor

For Accepting Officer

**Annexure-I to special conditions**

**FORMAT FOR BANK GURANTEE FOR ADVANCE PAYMENT**

From:  
Bank \_\_\_\_\_  
To  
The President of India  
Sir,

1. With reference to contract Agreement No \_\_\_\_\_ concluded between the president of India, hereinafter referred to as "The Government" and M/S \_\_\_\_\_ hereinafter referred to as the "the contractor" for \_\_\_\_\_ as detailed in the above contract agreement hereinafter referred to as "the said contract" and in consideration of the Government having agreed to make an advance payment in accordance with the terms of the said contract to the said contractor, we the \_\_\_\_\_ bank, hereinafter call 'the Bank' hereby irrevocably undertake and guarantee to you that if the said contractor would fail to provide works in accordance with the terms & conditions of the said contract for any reason whatsoever or fail to perform the said contract in any respect or should whole or part of the said on account payments at any time become repayable to you for any reason whatsoever, we shall, on demand and without demur pay to you all and any sum up to a maximum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) paid as advance to the Contractor in accordance with the provisions contained in clause \_\_\_\_\_ of the said contract.

2. We further agree that the Government shall be the sole judge as to whether the contract has failed to provide works in accordance with the terms & conditions of the said contract or has failed to perform the said contract in any respect or the whole or part of the advance payment made to contractor has become repayable to the Government and to the extent and monetary consequences thereof by the Government.

3. We further hereby undertake to pay the amount due and payable under this Guarantee without any demur merely on a demand from the Government stating the amount claimed. Any such demand made on the Bank shall be conclusive and binding upon us as regards the amounts due and payable by us under this Guarantee and without demur, However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs \_\_\_\_\_ Rupees \_\_\_\_\_ only).

4. We further agree that the Guarantee herein contained shall remain in full force and effect for a period upto \_\_\_\_\_ (03 months+ due date of recovery of advance) unless the Government in his sole discretion discharges the Guarantee earlier.

5. We further agree that any change in the constitution of the Bank or the constitution of the contractor shall not discharge our liability hereunder

6. We further agree that the Government shall have that fullest liberty without affecting in any way our obligations hereunder with or without our consent or knowledge to vary any of the terms and conditions of the said contract or extend the time of development/delivery from time to time or to post pone for any time or from time to time any of the powers exercisable by the Government against the contractor and either to forebear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or any indulgence or for bearance shown or any act omission on the Government or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so relieving us.

7. We lastly undertake not to revoke the Guarantee during the currency of the above said contract except with the prior consent of the Government in writing.

Yours faithfully,

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

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

For \_\_\_\_\_ Bank  
(Authorised Attorney)  
Seal of Bank

Signature of Contractor

For Accepting Officer

## PARTICULAR SPECIFICATIONS

### PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.

1. **SCOPE OF WORK:** All materials to be used, all methods adopted and all works performed shall be strictly in accordance with the requirements of the specifications mentioned herein.

2. **Brief Description:**

2.1 A Grid Connected Solar Rooftop Photo Voltaic (SPV) power plant should consists of SPV array, Module Mounting Structure, Power Conditioning Unit consisting of Maximum Power Point Tracker (MPPT), Power Optimizer and Inverter and Controls & Protections, interconnect cables and switches. PV Array should be mounted on a suitable structure. Grid connected SPV power plant shall be without battery and should be designed with necessary features to supplement the grid power during day time. Components and parts used in the SPV power plants including the PV modules, metallic structures, cables, junction box, switches, inverters etc., should conform to the BIS or IEC or international specifications, wherever such specifications are available and applicable.

Solar PV system shall consist of following equipment/components.

- (a) Solar PV modules should consist of required number of Mono Crystalline PV cells.
- (b) Grid interactive Inverter with Remote Monitoring System
- (c) Power Optimiser
- (d) Mounting structures
- (e) Junction Boxes.
- (f) Earthing and lightening protections.
- (g) IR/UV protected PVC Cables, pipes and accessories

3. **Scope of work** shall include

3.1 Design, supply, installation, commissioning of the 250 KW On-Grid Solar PV Power Plant and net metered system complete in all respect including excess power purchase agreement with electricity departments of Bhutan and India.

3.2 Installation of PV modules on three numbers of Sloped Roof (Distance between each sloped roof is around 10 metres – Sloped roof given for North Light) with required fixtures, Junction boxes, cables, Power Conditioning Unit and connect to the one or more LT feeders.

3.3 Bidders may visit the site to know the exact requirement and site conditions before quoting for the tender. Any claim of ignorance about the system or responsibility shall not be entertained in later stage.

- 3.4 Supply of the complete systems, including all necessary components, sub-components, spares, tools etc. Power plant shall be installed as per the specifications provided in the tender.
- 3.5 Making arrangements of ladder / cranes or etc. for shifting of all the items to the Roof- Top of the Main press building for installation.
- 3.6 Fabrications, supply and the installation of suitable support for the PV panels and other components whichever is required with the accessories.
- 3.7 The plant shall feed AC power to the Low Tension (LT) distribution grid power supplies.
- 3.8 The plant shall monitor solar generated energy using plant AC energy meter independent of load energy monitoring.
- 3.9 Each PV panel structure shall be incorporated one bird repellent spike at a level higher than the panel upper edge. The location of the spike should be selected for minimum shadow effect.
- 3.10 Array support structure shall be fabricated using corrosion resistant GI or anodized aluminum or equivalent metal sections. Array support structure welded joints and fasteners shall be adequately treated to resist corrosion.
- 3.11 The individual string/array combiner boxes and DC cabling shall be installed at a closer distance to PV panels.
- 3.12 The inverters shall be installed nearer to the PV panels in a weather proof cabinet.
- 3.13 One junction box (IP-65) shall be provided with bus bar arrangement at roof top to interconnect inverter output and to connect output cables to sub-station.
- 3.14 Civil work (grouting) for PV structure.
- a. The individual Solar PV array shall be installed on existing roof top of the building using fixed PV array support structure.
  - b. PV array shall be installed in the space free from any obstruction and / or shadow by utilizing maximum space.
  - c. Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.
  - d. The array structure shall support SPV modules at a given orientation and absorb and transfer the mechanical loads to the roof top columns properly. All nuts and bolts shall be of very good quality stainless steel/ Cadmium coated.
  - e. PV panel frames shall be fixed and grouted to RCC blocks, which in turn shall be secured the structure in a seamless manner with no impact on waterproofing of the existing structure. In case damages happened to the existing waterproofing then it

should get repaired by the supplier. Additional waterproofing shall be provided in the areas where RCC blocks are secured, if required.

3.15 Contractor shall provide pedestals if required for mounting of the PCU'S and control panels.

3.16 It is contractor's sole responsibility for liaising, Co-ordination etc., and to obtain all the approvals from the Central Electricity Authority or any other relevant statutory bodies as required for completion of the project.

3.17 The bidder must also provide 2 sets of documents in English, containing detailed operation and maintenance manual, Wiring diagram and GA Drawing, after completion.

3.18 Training to the user for operation and maintenance of the system.

3.19 The quantities mentioned in schedule of items are tentative and may vary as per the site requirement.

3.20 The contractor has to arrange all the required materials, tools and tackles, labour, transportation etc., at his own cost.

3.21 Contractor shall supply the miscellaneous materials like junction box, anchor fasteners, screws, bolts and nuts, cable glands and lugs etc. and carry out associated minor works for successful completion of work. Contractor shall do any other related jobs that are not mentioned above, but found necessary at the time of execution to complete the job in all respect.

3.22 The contractor will be responsible for supply of any other item required to accomplish the work even if it's not stated in the BOQ. The quantity of items such as junction box, anchor fasteners, screws, bolts and nuts, cable glands and lugs etc. may vary from the one prescribed in BOQ. Any increase in quantity for BOQ items or any item to be supplied other than BOQ, the contractor has to obtain prior approval from the Accepting Officer. If the quantity is less than that of mentioned in the BOQ, the payment will be made at actuals.

3.23 The materials supplied and work executed shall comply with relevant I.S. Standard and OC Contract, Commander Contract or Accepting Officer shall have the right to reject any materials and workmanship, if it is found not in conformity with specification, approved brand and terms and conditions.

3.24 Latest revision of all applicable codes, regulations shall govern the design, manufacture, installation, testing and commissioning of this work even when the requirement of the specification is less stringent than the codes, regulations and standards. In the event of requirement of the specification exceeds the corresponding codes, regulations or standards, the specification shall govern.

3.25 Certificate for module from IEC (International Electrotechnical Commission) or equivalent to be submitted as part of the bid offer.

#### **4. SOLAR PHOTOVOLTAIC MODULES**

4.1 The PV modules used should be made in India/ Bhutan

4.2 The efficiency of the PV modules should be minimum 18% and fill factor should be more than 70%.

4.3 Modules of mono crystalline type should be used. The PV modules used must qualify to the latest edition of IEC PV module qualification test or equivalent BIS / Bhutan standards Crystalline Silicon Solar Cell Modules IEC 61215/IS14286. In addition, the modules must conform to IEC 61730 Part-2- requirements for construction & Part 2 – requirements for testing, for safety qualification or equivalent IS. Certificate for module qualification from IEC or equivalent to be submitted as part of the bid offer or Self-undertaking from manufacturer / supplier that the modules being supplied are as per above. The Potential Induced Degradation (PID) test for solar modules will be mandatory. It should be valid during the operational period.

4.4 Module shall consist of Solar Cell of minimum 5 Bus Bar technology.

4.5 The total solar PV array capacity should not be less than allocated capacity (kWp) and should comprise of monocrystalline modules of minimum 375 Watt panels with 72 cells. Module capacity less than minimum 375 watts shall not be accepted.

4.6 Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided.

4.7 PV modules must have valid test certificate of IEC / Equivalent standard and shall meet the latest higher side specifications prescribed.

4.8 The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.

4.9 The bidder shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his bid.

4.10 Other general requirement for the PV modules and subsystems shall be the Following:

- (a) The rated output power of any supplied module shall have tolerance of +/- 3%.
- (b) The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case may be.
- (c) The module shall be provided with a junction box with weather proof lid of sealed type and IP-65 or above rated.
- (d) I-V curves at STC shall be provided with the module.

4.11 The module should have the following minimum information laminated inside the module:

- (a) Made in India/ Bhutan
- (b) Company name /logo
- (c) Model number (it should indicate the voltage and rated wattage of the module)
- (d) Serial number
- (e) Year of make

**5. WARRANTY:**

**a) Manufacturer's Warranty:**

(i) The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than Ten (10) years from the date of acceptance of the system.

(ii) Defects and/or failures due to manufacturing.

(iii) Defects and/or failures due to quality of materials

(iv) Non conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option.

**b) Performance Warranty:**

(i) The power performance shall not be below 90% power output at 10 years and 80% power output at 25 years.

**6. ARRAY STRUCTURE (MODULE MOUNTING STRUCTURE):**

a) Hot dip galvanized MS mounting structures may be used for mounting the modules/ panels/arrays. Each structure should have angle of inclination as per the site conditions to take maximum insolation. However, to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements.

b) The Mounting structure shall be so designed to withstand the speed of the wind i.e 150 Km/ Hour. Suitable fastening arrangement such as grouting and calming should be provided to secure the installation against the specific wind speed.

c) The mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS4759.

d) Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. Aluminum structures also can be used which can withstand the wind speed of 150Km/ Hour.

Necessary protection towards rusting need to be provided either by coating or anodization.

e) The fasteners used should be made up of stainless steel. The structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels

f) Regarding civil structures the bidder need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof. The total load of the structure (when installed with PV modules) shall be checked based on roof conditions and any strengthening required for roof shall be done by the contractor.

g) The minimum clearance of the structure from the roof level should be 750mm. The structure shall be grouted with fasteners with chemical sealing to withstand the required wind velocity. Angle of inclination shall be as per site requirement.

(i) For Pillars: Cement: Concrete: Sand Ratio: 1:2:4

(ii) Screws shall be grouted in the Slab of roof up to depth of 50 mm.

(iii) Sufficient numbers of vertical post shall be provided so that the structure may not get bent.

**7. SPECIFICATIONS FOR INVERTER:** Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the "Power Conditioning Unit". In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter should also be DG set interactive, if necessary. Inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows:

Parameters	Detailed Specifications
Switching devices	IGBT
Capacity	The combined wattage of all the Inverter shall not be less than the rated solar PV capacity of the power plant.
Control	Microprocessor /DSP
Nominal Voltage	230V/415V as the case may be.
Voltage range	Single Phase: Shall work from 180 Volts to 270 Volts; Three Phase: Shall work from 180 Volts to 270 Volts <b>per phase</b>
Operating frequency/ range	50 Hz(47to52 Hz)
Grid Frequency	± 3 Hz or more (shall also compatible for

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Synchronization range	Synchronization with DG Set)
Waveform	Sine Wave
Harmonics	AC side total harmonic current distortion<5%
Ripple	DC voltage ripple content shall not be more than1%.
Efficiency	<p>1. The inverters should be tested as per IEC standards/ as per latest MNRE Specification. The following criteria should be followed :</p> <p>2. The benchmarking efficiency criteria for the Grid tied ( central/string) inverter</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> At nominal voltage and full load is &gt;93%</li> <li><input type="checkbox"/> For load &gt;25% is &gt;92%.</li> </ul> <p>3. No load losses should not be more than 5%.</p>
Losses	Maximum losses in sleep mode: 2W per 5kW Maximum losses in stand-by mode:10W
Casing protection levels	Degree of protection: Minimum IP-21 and 22 for indoor use and IP65 certification for outdoor use
Temperature	Should withstand from 0°C to + 45 deg. Celsius
Humidity	Should withstand up to 95% (relative humidity)
Operation	Completely automatic including wake up, synchronization
MPPT	Maximum power point tracker shall be integrated in the inverter to maximize energy drawn from the array. MPPT range must be suitable to individual array voltages in power packs
Protections	Mains Under / Over Voltage
	Over current
	Over temperature
	Short circuit
	Lightening
	Surge voltage induced at output due to

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	external source
	Anti Islanding (for grid synch. Mode)
System Monitoring Parameters	Inverter voltage & current Mains Voltage, Current & Frequency
Recommended LCDD is play on Front Panel	Accurate displays on the front panel:
	DC input voltage
	DC current
	AC Voltage (all 3 phases, in case of 3 phase)
	AC current (all 3 phases in case of 3 phase)
	Ambient temperature
	Instantaneous & cumulative output power
	Daily DC energy produced
Communication interface	RS 485 / RS 232 Inverter shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array to the power conditioning unit/inverter should also be DG set interactive.
Power Factor	> 0.9
THD	<3%
Test Certificates	The inverter should be tested from the MNRE approved test centres / NABL /BIS /IEC accredited/48 authorized testing-calibration laboratories. In case of imported power conditioning units, these should be approved by international test

- a) Three phase inverter shall be used if grid supply is of three phase.
- b) Inverter shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- c) The output of power factor of inverter is suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.
- d) Built-in meter and data logger to monitor plant performance through external computer shall be provided (Providing Computer is not part of DNIT & is in the scope of user).
- e) Anti-islanding (Protection against Islanding of grid): The inverter shall have anti islanding protection in conformity to IEEE 1547/UL 1741/ IEC 62116/IS16169 or equivalent BIS standard.

- f) Successful Bidders/Supplier shall be responsible for galvanic isolation of solar roof top power plant (>100kWp) with electrical grid or LT panel.
- g) The inverter generated harmonics, flicker, DC injection limits, Voltage Range, Frequency Range and Anti-Islanding measures at the point of connection to the utility services should follow the latest CEA (Technical Standards for Connectivity Distribution Generation Resources) Guidelines.
- h) The inverter should comply with applicable IEC/ equivalent BIS standard for efficiency measurements and environmental tests.
- i) The MPPT units environmental testing should qualify IEC 60068-2 (1, 2, 14, 30)/ Equivalent BIS std. The junction boxes/ enclosures should be IP 65 (for outdoor)/ IP 54 (indoor) and as per IEC 529 specifications.

## 8. INTEGRATION OF PV POWER WITH GRID:

- (i) The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization. In case of grid failure, or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the grid. 4 pole isolation of inverter output with respect to the grid connection need to be provided. Solar Generation Meter(s) and bidirectional energy meter, as per KERC (Karnataka Electricity Regulatory Commission) Net Metering Regulations should also be installed in the campus/building of beneficiary.
- (ii) The solar generation meter and Bi-directional meter along with CT/PT (if required) with Surge Protection Device (SPD) should be of 0.2S accuracy class is in the scope of bidder. For LT connection the accuracy shall be as per requirement of DISCOMs.
- (iii) CEA guideline 2013 (amended from time to time) for interconnecting solar power with Grid shall be followed.
- (iv) Certification of Islanding protection in the inverter from the manufacturer of the equipment shall be mandatory. This shall be arranged by the successful bidder from the manufacturer.

### 8.1 Technical Standards for Interconnection:

S/ No.	Parameters	Requirements	Reference
1.	Overall Conditions of Service	Reference to regulations	Conditions for Supply of Electricity of Distribution Licensees
2.	Overall Grid Standards	Reference to regulations	Central Electricity Authority (Grid Standards) Regulations 2010

3.	Equipment	Applicable industry standards	IEC standards/IS
4.	Safety and Supply	Reference to regulations, Chapter III (General Safety Requirements)	Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010 and subsequent amendments
5.	Meters	Reference to regulations and additional conditions issued by the Commission.	Central Electricity Authority (Installation & Operation of Meters) regulations 2006 and subsequent amendments
6.	Harmonic Current	Harmonic current injections from a generating station shall not exceed the limits specified in IEEE 519	IEEE 519 relevant CEA (Technical Standards for Connectivity of the distributed generation resource) regulations 2013 and subsequent amendments
7.	Synchronization	Photovoltaic system must be equipped with a grid frequency synchronization device, if the system is using synchronizer inherently built into the inverter than no separate synchronizer is required.	Relevant CEA (Technical Standards for Connectivity of the distributed generation resources) regulations 2013 and subsequent amendments.
8.	Voltage	The voltage- operating window should minimize nuisance tripping and should be under operating range of 80% to 110% of the nominal connected voltage. Beyond a clearing time of 2 seconds, the Photovoltaic system must isolate itself from the grid.	Relevant CEA (Technical Standards for Connectivity of the distributed generation resources) regulations 2013 and subsequent amendments.
9.	Flicker	Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in IEC 61000 or other equivalent Indian standards, if any	Relevant CEA Regulations 2013 and subsequent if any, (Technical Standards for Connectivity of the distributed generation resource)

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10.	Frequency	When the Distribution system frequency deviates outside the specified conditions (52 Hz on upper side and 47 Hz on lower side up to 0.2 sec), the Photovoltaic system shouldn't energize the grid and should shift to island mode.	
11.	DC Injection	Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point. Or 1% of rated inverter output current into distribution system under any operating conditions	
12.	Power Factor	While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained	
13.	Islanding and Disconnection	The Photovoltaic system in the event of voltage or frequency variations must island/ disconnect itself within IEC standard on stipulated period	
14.	Overload and Overheat	The inverter should have the facility to automatically switch off in case of overload or overheating and should restart when normal conditions are restored	
15.	Cable	For interconnecting Modules, Connecting modules and junction Boxes and junction boxes to inverter, DC copper cable of proper sizes shall be used. To connect inverter with AC panel aluminium cable of	Relevant CEA regulations 2013 and subsequent if any, (Technical Standards for Connectivity of the distributed generation resource)

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		<p>proper size shall be used. All the internal cables to be used in the systems shall be included in the cost while 100mtr. AC aluminium cable of proper size to be used to connect inverter to AC panel shall be included in the cost of the system.</p>	
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**9. JUNCTION BOXES FOR CABLES FROM SOLAR ARRAY:** The junction boxes shall be made up of FRP (Hensel or equivalent make)/PP/ABS with dust, water and vermin proof. It should be provided with proper locking arrangements. Series / Array Junction Box (SJB/AJB) (whichever is required): All the arrays of the modules shall be connected to DCCB. AJB shall have terminals of bus-bar arrangement of appropriate size. Junction boxes shall have suitable cable entry with suitable glanding arrangement for both input and output cables. Suitable markings on the bus bars shall have to be provided to identify the bus bars etc. Suitable ferrules shall also have to be provided to identify interconnections. Every AJB should have suitable arrangement Reverse Blocking diode of suitable rating. Suitable SPD, suitable Isolation switches to isolate the DC input to Inverter has to be installed in AJB for protection purpose. Thus AJB should have DC isolator for disconnecting the arrays from inverter input. If in any case diodes, HRC Fuses, SPDs and isolators are installed in the string inverters, then there is need to install these again in AJB. If some of these safety gadgets are not installed in String Inverter it should be installed in AJB. Cable interconnection arrangement shall be within conduit pipe on saddles installed properly. Cable connection should be done in such a manner that fault findings if any, can be identified easily. The cables should be connected in such a manner that clamp meter can be comfortably inserted around the individual cables to measure the data like current, voltage etc. AJB should also be marked as A1, A2, & so on. Wherever conduits are laid on wall/roof or ground, then it should be suitably laid in cable tray or appropriate civil structure which should be at least four inches above roof/ground level. However, if the inverter is equipped with Junction Box, the cables may be connected directly to the ports provided in the inverter and no separate Junction Box is required.

**10. PROTECTION & SAFETY:** Both AC & DC lines have suitable MCB/MCCB, Contractors, SPD, HRC Fuse etc to allow safe start up and shut down before & after string inverter installed in the system. String inverters should have protections for overload, surge current, high Temperature, over/ under voltage and over/ under frequency & reverse polarity. The complete operation process & safety instructions should printed on the sticker & suitably pasted on the near inverters. Inverter should have safety measures to protect inverter from reverse short circuit current due to lightening or line faults of distribution network.

**10.1 Inverter should be suitably placed in covered area on a suitable platform or wall mounted or concrete platform (on rubber mat) with complete safety measure as per norms.**

**11. INVERTER/ARRAY SIZE RATIO:**

- (a) The combined wattage of all inverters should not be less than rated capacity of power plant under STC in KW.
- (b) Maximum power point tracker shall be integrated in the inverter to maximize energy drawn from the array.

**12. AC COMBINER BOX BOARD (ACCB):** This shall consist of box shall consists of grid interface panel of good quality FRP/ suitable powder coated metal casing. One Electronic Energy Meter (0.2S Class), ISI make, Three Phase duly tested by DISCOMs (Meter testing Division) with appropriate CT (if required), of good quality shall have to be installed at suitable place to measure the power generated from SPV Power Plant, as per Net Metering Regulations. Proper rating MCCB & HRC fuse and AC SPDs shall be installed to protect feeders from the short circuit current and surges as per the requirement of the site. **Operation AC Isolator Switch of Grid Connectivity should be such that it can be switched ON or OFF without opening the ACCB.**

**13. CABLES/WIRE:** All cables should be of copper as per IS/BSB and should be of 650V/1.1 KV grade as per requirement. All connections should be properly made through suitable lug/terminal crimped with use of suitable proper cable glands. The size of cables/wires should be designed considering the line loses, maximum load on line, keeping voltage drop within permissible limit and other related factors. The cable/wire should be of ISI/ISO/BSB mark for overhead distribution. For normal configuration the minimum suggested sizes of cables are:

Module to module/AJB	: 4 sq mm (single core) DC Cable
AJBs to MJB/DCCB/Inverter	<ul style="list-style-type: none"> <li>• Up to capacity of 10 kWp Solar Plant, minimum 4 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing</li> <li>• For capacity more than 10 kWp &amp; up to 20 kWp Solar Plant, minimum 6 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing</li> <li>• For capacity more than 20 kWp Solar Plant, minimum 10 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing</li> </ul>
Inverter to ACCB / Distribution board	AC Cable as per design & rating

**14. CABLE TRAY:** All the cables should be laid in appropriate GI cable tray as per the requirement of the site, No cable should be laid directly on ground or wall cable tray should be laid such that there is gap of at least two inches above ground/roof/wall.

**15. DISPLAY BOARD:** The bidder has to display a board at the project site mentioning the following:

Plant Name, Capacity, Location, Type of Renewable Energy plant (solar),

Date of commissioning, details of tie-up with transmission and distribution companies, Power generation and Export FY wise.

**Danger Boards** : Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date.

**16. MANUAL DISCONNECTION SWITCH:** It should be provided to isolate the system from Grid which should be outside of ACCB.

**17. AC DISTRIBUTION PANEL BOARD:**

- a) AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- b) All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III / IS60947 part I, II and III.
- c) The changeover switches, cabling work should be undertaken by the bidder as part of the project.
- d) Module to module/AJB: 4 sq mm (single core) DC Cable AJBs to MJB/DCCB/Inverter
  - (i) Up to capacity of 10 kWp Solar Plant, minimum 4 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing
  - (ii) For capacity more than 10 kWp & up to 20 kWp Solar Plant, minimum 6 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing
  - (iii) For capacity more than 20 kWp Solar Plant, minimum 10 sq mm (Single/Double core) DC Cable, with respect to current ratings of designing Inverter to ACCB / Distribution board AC Cable as per design & rating
- e) All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air – insulated, cubical type suitable for operation on three phase / single phase, 415 or 230 volts, 50 Hz
- f) The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- g) All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better.
- h) Should conform to Indian Electricity Act and rules (till last amendment).
- i) All the 415 AC or 230 volts devices / equipment like bus support insulators, circuit breakers, SPDs, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.

Variation in supply voltage	+/- 10 %
Variation in supply frequency	+/- 3 Hz

**18. DATA ACQUISITION SYSTEM / PLANT MONITORING**

- (i) For systems web based remote monitoring access of which shall also be provided access to Project Dantak
- (ii) PV array energy production: Digital Energy Meters to log the actual value of AC/ DC voltage, Current & Energy generated by the PV system provided. Energy meter along with CT/PT should be of 0.2S accuracy class.
- (iii) String and array DC Voltage, Current and Power, Inverter AC output voltage and current (All 3 phases and lines), AC power (Active, Reactive and Apparent), Power Factor and AC energy (All 3 phases and cumulative) and frequency shall be monitored.
- (iv) All instantaneous data shall be shown on the computer screen.
- (v) Software shall be provided for USB download and analysis of DC and AC parametric data for individual plant.
- (vi) Provision for instantaneous Internet monitoring and download of historical data shall be also incorporated.

**19. PRIORITY FOR POWER CONSUMPTION:** Regarding the generated power consumption, in case of string inverter, priority need to be given for internal consumption first and thereafter any excess power can be exported to grid as per applicable laws in Bhutan.

**20. PROTECTIONS:** The system should be provided with all necessary protections like earthing, Lightning, and grid anti-islanding as follows:

**20.1 Lightning and Over Voltage Protection:** The SPV Power Plant shall be provided with lightning and over voltage protection. The principal aim in this protection is to reduce the over voltage to a tolerable value before it reaches the PV or other sub systems components. The source of over voltage can be lightning or any other atmospheric disturbance. The Lighting Arrestor (LA) is to be made on the basis of the necessary meteorological data of the location of the projects. Necessary foundation for holding the LA is to be arranged keeping in view the wind speed of the site and flexibility in maintenance in future. Each LA shall have to be earthed through suitable size earth bus with earth pits. The earthing pit shall have to be made as per IS 3043. LA shall be installed to protect the array field, all machines and control panels installed in the control rooms. Number of LA shall vary with the capacity of SPV Power Plant & location. Number of LA should be in such a manner that total layout of solar modules should the effective coverage of LA's. It should be of Early Streamer Emission (ESE) type.

- 20.2 Earthing Protection:** Each array structure of the PV yard shall be grounded properly. In each array every module should be connected to each other with copper wires, lug teathed washers addition the lightning arrestor/masts shall also be provided inside the array field. Provision shall be kept for shorting and grounding of the PV array at the time of maintenance work. All metal casing/shielding of the plant shall be thoroughly grounded in accordance with Indian/Bhutan Electricity Act/IE rules as amended up to date. The earthing pit shall be made as per IS: 3043. All the array structures and equipments/control systems shall be compulsorily connected to the earth, separately. Number of earthings shall vary with the capacity of SPV Power Plant & location. G.I. /Copper strips should be used for earthing instead of G.I. wires, LA should be installed to protect the array field & machines installed in the control rooms. Number of LA shall vary with the capacity of SPV Power Plant & location. Earth resistance shall not be more than 5 ohms.
- 20.3 Surge Protection:** Internal surge protection shall consist of three MOV type surge-arrestors connected from +ve and –ve terminals to earth (via Y arrangement)
- 20.4 Grid Islanding:**
- a) In the event of a power failure on the electric grid, it is required that any independent, power producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to AC inverters from continuing to feed power into small sections of the grid, known as “islands.” Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.
- b) A manual disconnect pole isolation switch beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked, if required, by the utility personnel
- 21. CONNECTIVITY:** The user has to take approval/NOC from the Concerned authority for the connectivity, technical feasibility, and synchronization of SPV plant with distribution network before commissioning of SPV plant, however the contractor has to extend all technical help to the user for preparing the documents required for getting the above clearance from authority. Reverse power relay shall be provided by bidder (if necessary). The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the Distribution Code/Supply Code and amended from time to time. Connecting voltage shall be three phase or as per site requirement based on the availability of grid level and as per concerned Bhutan authority. Authority may be consulted before finalization of the voltage level and system shall be designed accordingly.
- 22. SAFETY MEASURES:** The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations and guidelines etc. All work shall be carried out in accordance with the latest edition of the Indian/Bhutan Electricity Act and rules formed there under and as amended from time to time.

**23. CODES AND STANDARDS:** The quality of equipment supplied shall be controlled to meet the guidelines for engineering design included in the standards and codes listed in the relevant ISI and other standards, such as :

- i) IEEE 928 Recommended Criteria for Terrestrial PV Power Systems.
- ii) IEEE 929 Recommended Practice for Utility Interface of Residential and Intermediate PV Systems.
- iii) IEEE 519 Guide for Harmonic Control and Reactive Compensation of Static Power Controllers.
- iv) National Electrical NEPA 70-(USA) or equivalent national standard.
- v) National Electrical Safety Code ANSI C2- (USA) or equivalent national standard.
- vi) JRC Specification 503 (Version 2.2 March 1991) or JPL Block V standard for PV modules.
- vii) The inverter manufacturer should attach efficiency certificate from Independent Third party Testing laboratory i.e. IEC, TUV, SNL/ERTL & STQC. Inverter should confirm to IEC 61683 for efficiency measurements and IEC 60068 2 for environmental testing.
- viii) IEC 62116 for Anti Islanding
- ix) IEC 62109-1, IEC 62109-2 for safety IEC 61727 FOR UTILITY INTERFACE.

**24. FINAL ACCEPTANCE CERTIFICATE:** The successful bidder shall establish the following generation of power of minimum Units per day for a period of 10 days for each installation as follows. After successful generation of 150 Units of power for Ten days, the FAC will be issued.

S/No	Proposed Solar Roof Top PV power plant locations	Proposed Solar PV installation capacity	Required minimum units of Solar PV electricity generation per day for 10 days taken @ 3.75 unit/KWp (kWh)
(i)	HQ Dantak	125 KWp	469 units
(ii)	HQ 19 BRTF	50 KWp	188 units
(iii)	1055 Field Workshop	05 KWp	19 units
(iv)	Liaison Cell/Transit Camp	40 KWp	150 units
(v)	Officer's Mess	25 KWp	94 units
(vi)	Takhti Wet Canteen	05 KWp	19 units

**25. COMPREHENSIVE ANNUAL MAINTENANCE CHARGES:** Comprehensive Annual Maintenance Contract shall start after one year from the date of acceptance as per Final Acceptance Certificate (FAC). The annual maintenance charges shall be quoted by the bidders for a period of 5 years. The CAMC charges quoted in the price schedule will be paid equally at the end of completion of each year. (Amount quoted divided by 5 will be paid at the end of completion of each year). During CAMC, the bidder will check the Solar Power Plant every quarter for effective performance in line with conditions specified elsewhere in the bid document. During this period, the bidder shall be responsible for supply of all spare parts, as required from time to time for scheduled and preventive maintenance, major

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overhauling of the plant, replacement of defective modules, inverters, PCU's etc. A minimum set of spares shall be maintained in the plant itself for the entire period of CAMC which upon its use shall be replenished.

**26. UTILITIES:** Project Dantak shall facilitate a single point of connection for Water and Electricity. Successful bidder shall make arrangements to draw the same from this point. Electricity and water shall be provided at applicable cost.

**SCHEDULE OF ITEMS AND MAKE OFFERED**

SI. No	DESCRIPTION	UNIT	Qty	Make Offered
1.1	Solar PV module (Mono crystalline) - Minimum 375 Wp each, for a total capacity of 250 KW as per specifications	Nos	667 or more	
1.2	Grid Tied String Inverter: 415V AC, 50Hz,	Nos	As required	
1.3	Optimizer – BESSCOM Empanelled	Nos	One for every two solar panels	
1.4	Module mounting structure	Lot	As required	
1.5	PVC Copper cable of suitable size (Panel to DC Junction Box), size: - 1 core, 4/ 6 sq. mm	Mts	As required	
1.6	PVC Copper cable of suitable size (DC Junction Box to Inverter), size: - 1 core, 4 / 6 sq. mm	Mts	As required	
1.7	PVC Aluminium cable of suitable size (Inverter to AC Junction Box Panel), size: -3 1/2core, 70 / 95 sq. mm	Mts	As required	
1.8	PVC Aluminium cable of suitable size (AC Junction Box to BESCO meter Cubicle) size: -3 ½ Core, 70 / 95 sq. mm	Mts	As required	
1.9	DC Junction Box (if required)	Set	As required	
1.10	AC Junction Box	Set	As required	
1.11	Lightning Arresters	Set	As required	
1.12	Earthing Kit (DC, AC, LA)	Set	As required	
1.13	Energy meter in LT distribution panel	Nos	As required	
1.14	Miscellaneous items required for completing the installation	Lot	As required	

**The make offered shall be compulsorily mentioned in the table for the schedule of items and also in the price bid without which the offer is liable to be rejected.**

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**[Supplier/Bidders shall fill the following format and submit along with bid]**

**a) The items supplied under this contract shall be of following make and standards**

1)	PV Array	BHEL/ RENEWSYS/ REIL/ Vikram / Tata /Emmvee/Navitas/Waaree or equivalent Indian Make Only
2)	Inverter	Solar Edge / Equivalent
3)	Optimizer	Solar Edge / Equivalent BESCO Approved
4)	Power Conditioning Unit	SMA/ SCHENIEDER- XENTREX/ SEMICRON/ ABB/ PPS / OPS/DB Electronics or reputed brand
5)	Cables	Finolex / Polycab / Havells / or reputed make as per IS standards
6)	AC Junction Box	Rittal / Equivalent
7)	Earthing Kit	Ashlok / Equivalent
8)	Lightning Arrestor	Hex / Equivalent
9)	Switches/Circuit Breakers /Connectors Junction Boxes /Enclosures for Inverters/Charge Controllers/Luminaries	Any ISI Make

**Notes:**

(a) The make of items mentioned in particular specifications of the contract and further proposed to be used by the contractor should be as per the approved list of items circulated by Bhutan Standard Bureau from time to time for hassle free entry in Bhutan. The bidder should acquaint themselves with the applicable changes in entry restrictions for the make of items and prior approval of Accepting officer is required for changes in make of items other than those mentioned in the Particular specification.

(b) GST shall be applicable as per applicable laws in Bhutan/India.

(c) The arrangement of permit for entry of contractor's manpower in Bhutan and the work permit thereof shall be responsibility of the contractor as per applicable immigration laws in Bhutan.

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**DECLARATION BY THE BIDDER**

We hereby declare that the equipment supplied shall meet the relevant IEC / IS / IEEE / Equivalent Standard.

It is confirmed that I/We shall carry out the works as per Technical specification and tender conditions. Necessary warranty and test certificates for desired materials shall be submitted when asked for.

I/we, also confirm that No material without conforming to the Specifications in the Contract will be used for the Works without prior written approval and instruction of the HQ Dantak Officers in charge.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

For & on behalf of

(Signature of authorized signatory with date Name and designation)

**PART-II PRICED BID**  
**SCHEDULE - "A" NOTES**

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

1. Quantity shown in Schedule 'A' is approximate and is inserted as guide only. These shall, however not be varied beyond the limits laid down in condition 7 of IAFW-2249 General Condition of contracts. **The contract will be accepted as a whole or as per the discretion of the Accepting Officer.**
2. The rates and amount in Schedule 'A' are to be filled in by the tenderer. The rates shall be filled both in figures as well as in words. In case of variation between the rates quoted in figure and words, the rates in words shall take precedence.
3. **Period of Completion**:- The entire works of Schedule 'A' under this contract shall be completed within **180** days in accordance with the phasing, if any, indicated in the tender from the date of placing of work order, which will be usually within two weeks from the date of issue of Acceptance letter.
4. Any drawings mentioned in the tender documents/particular specifications but it is inadvertently not included in the list of drawings, shall also be deemed to form part of the contract and Tenderer may see such drawings/details in the office of Accepting Officer/concerned OC Contracts and shall be supplied by Deptt.
5. The layout of work as indicated in site plan/layout plan is tentative and may be varied where necessary at the discretion of the OC Contact. The contractor shall not be entitled for any claim on account of any such variation.
6. The rates to be quoted by the tenderer in the schedule 'A' shall be deemed to include for the provision of all labour and materials, loading and unloading of materials and transportation if required, tools, plant, equipment and tackle, process, operations and specific requirements details in the schedule in the particular specification and elsewhere in this tender documents and for the full, entire and final completion of the work in accordance with the provisions of these tender documents.
7. The rate quoted by the contractor shall be deemed to be inclusive of all Taxes (including Sales Tax/VAT on materials, Sales, Tax/VAT on works contracts, Turnover Tax, Service Tax, etc), duties, Royalties, Octroi, State Entry Tax & other levies payable under the respective statutes. No re-imburement/refund for variation in rates of taxes, duties royalties, Octroi, State Entry tax & other levies, and or imposition/abolition of any new/existing taxes, duties, royalties, octroi, state entry Tax & other levies shall be made except as provided in Special Condition.
8. The rate to be quoted by the tenderer in respect of this work shall be deemed to include for all minor details of construction which are obviously and fairly intended and which may not have been specifically mentioned in the tender documents but which are essential for satisfactory execution and completion of work. In case of difference of opinion

Signature of Contractor

For Accepting Officer

between the OC Contract and the Contractor as to what constitutes a minor detail of construction, the decision of Accepting Officer shall be final and binding.

9. Rates to be quoted by the contractors shall be deemed to include for all items of work as described, specified in particular specification and on drawing.

10. The rates to be quoted by the contractor for various items shall include for "material and labour"/" Supply and fix" connecting' Jointing, Testing and Commissioning complete unless otherwise specifically mentioned therein.

11. The amount of contract is not firm but shall be treated as the contract sum as referred to in condition 1 (n) of IAFW-2249.

12. Work shall be executed on locations as shown in site plan or as directed by the OC Contract/Engineer-in-Charge.

13. Measurements of work done shall be as per units of items given in Schedule 'A' and this mode of measurement shall take as per Clause 113 of MoRT&H Specification for road & Bridge works (Fifth Revision). The rate be quoted considering Clause 114 of MoRT&H Specification Road & Bridge works (Fifth Revision).

14. Unit RM, mm, Cum or Cm, Sqm, Kg and quintal or Qtl wherever mentioned in the tender documents denotes the unit, Running Meter, Millimeter, Cubic Meter, Square Meter, Kilogram and Quintal respectively.

15. The works under this contract will be carried out within the working hours as per directions of Accepting Officer or the officer so detailed by him for administration of this contract.

16. The security will be arranged by the contactor for his personnel and equipment during the execution of work. No compensation will be paid by BRO on account of any loss/damage to personnel, property, veh/eqpt/plant of contactor during execution of work or on any account.

17. Site for execution of work shall be handed over on the date of commencement of the work as indicated in the work order No 01. In case it is not possible for the department to handover the entire site on the date of commencement and certain portion of the site is handed over later on then contactor shall make his planning/deployment of resources accordingly and no claims of whatsoever nature on the account shall be entertained.

**18. The contract will be accepted as a whole or as per the discretion of the Accepting Officer.**

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

**SCHEDULE 'A'/BILL OF QUANTITIES**

S/No	Description of Works	A/U	Qty	Rate per Unit to be quoted by the Bidder		Amount		
				Figures	Words	Figures	Words	
1.01	Design, Engineering, Supply, Installation, Testing and Logistics for SPV modules for a total capacity of 125 KWp as per specifications, SPV module mounting structure suitable for accommodating, 125 KWp capacity SPV modules including foundation as per specifications, Power conditioning units/String inverter as per specifications, Balance of system, cables, control system and miscellaneous items required for the commissioning of the SPV power plant (ON GRID), power purchase agreement with electricity authority, net metering etc completed in all respect including all charges or as directed by Engineer-in-Charge/OC Contract at Chief Headquarters Project Dantak, Simtokha, Thimphu, Bhutan.	Nos	01					180 days from placing of work order
1.02	Comprehensive Annual Maintenance Charges for <b>5</b> years from the date of acceptance as per FAC.	Lump sum	01					
	<b>Total (Page No. 164)</b>							

(Signature of the Contractor)

(For Accepting Officer)

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

**SCHEDULE 'A'/BILL OF QUANTITIES (Contd....)**

S/No	Description of Works	A/U	Qty	Rate per Unit to be quoted by the Bidder		Amount		
				Figures	Words	Figures	Words	
2.01	Design, Engineering, Supply, Installation, Testing and Logistics for SPV modules for a total capacity of 125 KWp as per specifications, SPV module mounting structure suitable for accommodating, 125 KWp capacity SPV modules including foundation as per specifications, Power conditioning units/String inverter as per specifications, Balance of system, cables, control system and miscellaneous items required for the commissioning of the SPV power plant (ON GRID), power purchase agreement with electricity authority, net metering etc completed in all respect including all charges or as directed by Engineer-in-Charge/OC Contract at following locations as follows:-							180 days from placing of work order
(a)	HQ 19 BRTF at Phuentsholing, Bhutan – 50 KWp capacity	Nos	01					
<b>Total (Page No. 165)</b>								

(Signature of the Contractor)

(For Accepting Officer)

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

**SCHEDULE 'A'/BILL OF QUANTITIES (Contd....)**

S/No	Description of Works	A/U	Qty	Rate per Unit to be quoted by the Bidder		Amount		180 days from placing of work order
				Figures	Words	Figures	Words	
(b)	Liasion Cell/Transit Camp at Jaigaon, India – 40 KWp capacity	Nos	01					
(c)	Officer's Mess at Jaigaon, India - 25 KWp capacity	Nos	01					
(d)	1055 Field Workshop at Phuentsholing, Bhutan - 05 KWp capacity	Nos	01					
<b>Total (Page No. 166)</b>								

(Signature of the Contractor)

(For Accepting Officer)

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

**SCHEDULE 'A'/BILL OF QUANTITIES (Contd....)**

S/No	Description of Works	A/U	Qty	Rate per Unit to be quoted by the Bidder		Amount		
				Figures	Words	Figures	Words	
(e)	Wet Canteen, Takhti, Bhutan – 05 KWp	Nos.	01					180 days from placing of work order
2.02	Comprehensive Annual Maintenance Charges for 5 years from the date of acceptance as per FAC.	Lump sum	01					
	<b>Total (Page No. 167)</b>							
	<b>Grand Total (Page 164 to 167)</b>							

(Signature of the Contractor)

(For Accepting Officer)

**SCHEDULE 'B'**  
**(ISSUE OF STORES TO THE CONTRACTOR)**

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTE, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

1. The contractor has to make his own arrangement for all stores/materials required for completion of the entire work contracted for.

S No	Particulars	A/U	Rate at which stores will be issued to the contractor	Place of issue	Remarks
		Nil			

(Signature of the Contractor)

(For Accepting Officer)

**SCHEDULE 'C'**

**LIST OF TOOLS AND PLANT (OTHER THAN TRANSPORT) WHICH WILL BE HIRED TO THE CONTRACTOR)**

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

S/ No	Quantity/ Particulars	Details of crew supplied	Hire charges per unit per working day	Stand by charges per unit per OFF day	Place of issue by name	Remarks
NIL						

**SCHEDULE 'D'**

**TRANSPORT TO BE HIRED TO THE CONTRACTOR**

**PROVIDING AND FIXING OF 125 KW SOLAR ROOFTOP AT HEADQUARTERS CHIEF ENGINEER PROJECT DANTAK, SIMTOKHA, THIMPHU, 50 KW SOLAR ROOFTOP AT HEADQUARTERS 19 BRTF, 05 KW SOLAR ROOFTOP AT 1055 FIELD WORKSHOP AT PHUENTSHOLING, 40 KW SOLAR ROOFTOP AT LIASION CELL/TRANSIT CAMP, JAIGAON, 25 KW SOLAR ROOFTOP AT OFFICER'S MESS AT JAIGAON AND 05 KW SOLAR ROOFTOP AT WET CANTEEN, TAKHTI UNDER PROJECT DANTAK.**

S/No	Quantity/Particulars	Rate per unit per working day	Place of issue	Remarks
NIL				

(Signature of the Contractor)

(For Accepting Officer)

**ACCEPTANCE**

\_\_\_\_\_alterations have been made in these documents and as evidence that these alterations were made before the execution of this contract agreement, they have been initialed by the contractor and Shri \_\_\_\_\_, HQ CE (P) DANTAK. The said Officer(s) is/are hereby authorised to sign and initial on my behalf the documents, forming part of the contract on my behalf.

The above tender was accepted by me on.....day of ..... 2026, on behalf of the President of India for the contract sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ Only) at the item rates quoted in Schedule 'A' in favour of \_\_\_\_\_

Signature

Brig  
Chief Engineer  
Project Dantak  
Accepting Officer  
For and on behalf of the President of India  
Signed this \_\_\_\_ day of \_\_\_\_\_ 2026

**TENDER**

To

The President of India  
Through the Chief Engineer  
Project DANTAK\*  
(\*Referred to also as Accepting Officer elsewhere in the tender documents).

Having examined and perused the following documents forming part of tender documents :-

1. Particular/technical specifications.
2. Ministry of Road Transport & Highways (MoRTH) specifications for Road and Bridge works (Fifth Revision) published by Indian Road Congress New Delhi.
3. Detailed specifications/other tender documents.
4. Schedule 'A', 'B', 'C' & 'D' attached here to
5. Special Conditions of the Contract
6. General Conditions of Contracts IAFW-2249 (1989 Print) including amendments 1 to 48 and errata No 1 to 20.
7. All other documents forming part of tender documents

Should this tender be accepted, I/We agree:-

To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein at the item rates continued in the aforesaid Schedule 'A' or at such other rates to be fixed under the provision of condition **62** of IAFW-2249 and to carry out such deviations as may be ordered vide condition **7** of General Condition of Contacts up to a maximum of **10 percent** and further agree to refer all disputes as required by condition **70 & 71** of the General Conditions of the contract (IAFW-2249) to the Sole Arbitration of an serving Engineer Officer to be appointed by **the Director General Border Roads, New Delhi or in his absence, by the officer officiating as Director General Border Roads**, whose decision shall be final, conclusive and binding. However, in case of disputes with **PSC** and or **PSU** the same will be referred to a Sole Arbitrator to be appointed by Secretary, Bureau of Public Sector Enterprises (refer Special condition **24** of tender documents).

Signature of Contractor

in the capacity of \_\_\_\_\_ duly

Witness:

authorized to sign the tender for and on behalf

(Name in Block letters)

of M/s \_\_\_\_\_

Address-----

(In Block letters)

Postal address: - \_\_\_\_\_

(Signature of the Contractor)

(For Accepting Officer)