



# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

Dated: 03.03.2026

## SECTION I: - NOTICE INVITING E- TENDER THROUGH GEM

1.1 On behalf of SJVN Limited, Online Open e-Tender Enquiry under Single Stage Two Bids System (Techno-Commercial Bid & Price Bid) are hereby invited through Government e-Marketplace (GeM) Portal from the Bidders who are meeting the Pre- Qualification Criteria mentioned in Section-III for ***“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra***”. The complete set of Tender Document covering detailed terms and conditions for hiring of above service is uploaded GeM Portal. Bidders are requested to submit their bid through GeM Portal on or before the scheduled last date and time for submission of Bids.

### 1.2 Brief Details & Time Schedule:

Sr. No.	Description	
1.	NIT No.	<b>GEM Bid No.-GEM/2026/B/7314800</b>
2.	NIT Date	03.03.2026
3.	Mode of Tender	Online GEM Bid
4.	Type of Bid	<b>Open E-Tender, Single Stage Two Bid System</b>
5.	Document available for downloading	as per GeM Portal
6.	Last date of Pre Bid clarifications	

Section I

***“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra***”.

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Sr. No.	Description	
7.	Date of Pre-Bid Meeting	----
8.	Venue of Pre-Bid Meeting	Conference Room, SJVN Ltd., 2nd Floor, Corporate Headquarter, Shanan, Shimla, Himachal Pradesh -171006
9.	Last Date and Time for receipt/submission of Bids	-----
10.	Date & Time of Opening of Techno-Commercial Bids.	---
11.	Venue for Opening of Bids	Electrical Contract Department, 2 <sup>nd</sup> Floor, CHQ, Shanan, Shimla Himachal Pradesh - 171006
12.	Period of Bid Validity	90 days from the last date of submission of bids
13.	Currency of Bids	Indian Rupees (INR)
14.	Earnest Money Deposited (EMD)	Rs 18,45,104/- or MSME exemption

### 1.3 Bid Submission:

Bids are to be submitted through GeM Portal. Bidders must use their GeM Seller ID and Password for participation in the tender. Bidders who do not have GeM Seller ID must register themselves as Seller in GeM Portal by visiting Government e-Marketplace Website - <https://gem.gov.in/>. The Bidders are required to submit their bid as per Bid Specification uploaded on GEM Portal.

### 1.4 Details of person to be contacted in case of any assistance required:

- Sh. Nayab Ahmad, Dy. Gen. Manager (KWPP), Contact No +919418454408/9318855408: For site visit and site related clarification.
- Sh. Dheeraj Kumar Singh, Manager (ECD), Contact No. +919418403138/8219082238

1.5 SJVN Ltd reserves the right to reject any or all bids or cancel/withdraw the above bid without assigning any reason whatsoever and in such case no bidder/indenting bidder shall have any claim arising out of such action.

### 1.6 For and on behalf of SJVN Limited

**Executive Director (HOD),**  
Electrical Contracts Department,

Section I

***“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.***

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Corporate Head Quarter SJVN Ltd.,  
Shanan, Shimla, Himachal Pradesh -171006  
E-mail: [elect.contracts@sjvn.nic.in](mailto:elect.contracts@sjvn.nic.in)  
Visit us at: [www.sjvn.nic.in](http://www.sjvn.nic.in)

**Corporate Identification Number: L40101HP1988GOI008409.**

**Website: [www.sjvn.nic.in](http://www.sjvn.nic.in)**

-----END OF SECTION-----

Section I

*“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.*

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विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: [www.sjvn.nic.in](http://www.sjvn.nic.in), CIN No. L40101HP1988GOI008409

## SECTION - II

### INSTRUCTIONS TO BIDDERS (ITB)

#### 2.1 Integrity Pact:

To improve transparency and fairness in the tendering process, SJVN is implementing Integrity Pact. Integrity Pact is deemed as part of the contract so that the prospective bidders are bound by its provisions.

The Integrity Pact, signed by all the prospective Bidders and SJVN, shall commit the persons/officials of both the parties, not to exercise any corrupt /fraudulent/collusive/coercive practices in the Tendering process and also during implementation of the Contract. Only those Bidders who have entered into Integrity Pact with SJVN shall be eligible to participate in the bidding process. Bidders signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter Entering into Integrity Pact as per Performa enclosed in the Tender Document is a basic qualifying requirement. In case of JV, each partner of JV shall sign Integrity Pact with SJVN. In case of sub-contracting, the Principal Contractor shall be responsible for adoption of Integrity Pact by the sub-contractor.

To oversee the compliance of obligation under the Integrity Pact, Independent External Monitor(s) (IEMs) have been appointed by SJVN. The details are as under:

Sl. No.	Name of IEMs	Address of IEMs
1	Sh. Manoj Pant, IFoS (Retd.)	House no. 70, Usha Colony, Sahastradhara Road, Dehradun-248013 (Uttarakhand), <a href="mailto:mpant2007@gmail.com">Email- mpant2007@gmail.com</a>
2	Dr. Davendra Verma, ISS (Retd.)	604, Tower-14, Purvanchal Royal City, Chi V, Greater Noida, G. B. Nagar-201310, Uttar Pradesh Email- <a href="mailto:verma.davendra@gmail.com">verma.davendra@gmail.com</a>

Section:  
II

*“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.*

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The Integrity Pact duly signed on behalf of SJVN is given in Section VII: Forms & Format. The Integrity Pact along with its Annexure -A (Guidelines on banning of business dealings) and Undertaking (FORM OF DECLARATION OF ELIGIBILITY) shall be downloaded, printed and signed by the bidder and the complete set of the same will be submitted with Bid.

The successful bidder shall submit duly executed Integrity Pact on Non-Judicial stamp paper of appropriate value prior to signing of Contract Agreement.

## 2.2 Content of Tender Documents/Bid Document:

Bids are to be submitted as per GeM Instructions and in accordance with the Tender Documents which is comprised of the following:

- i) Notice Inviting E- Tender through GEM
- ii) Instruction to Bidders (ITB)
- iii) Minimum Qualification requirement (MQR)
- iv) Scope of Work/Services
- v) List of WTG Observations and rectifications as per Audit finding Annexure-A
- vi) Special terms and Conditions (STC)
- vii) Service level Agreement (SLA)
- viii) Payment Terms
- ix) BOQ
- x) Bid Response Sheet (BRS)
- xi) Additional Terms & Conditions (ATC)
- xii) General Terms Conditions (GTC) of GeM

## 2.3 Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of the bid. In no case, SJVN shall be responsible for these costs regardless of the conduct or outcome of the bidding process.

## 2.4 Pre-bid Due diligence

- 2.4.1 Before Bidding, the Bidder shall undertake and shall be deemed to have undertaken a thorough study of the proposed work, the job Site(s) involved, the Site conditions, the labour, power, water, material and equipment availability, transport and communication facilities and temporary offices and accommodation quarters, and all other factors, constraints, and facilities necessary for the formulation of the Bid, supply of materials and the performance of the work.

Section: II	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 2 of 15
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2.4.2 All prospective bidders are advised to visit the Khirvire Wind Project Site to assess the requirements for complete commissioning, scope of works and full functional restoration of the Wind Turbine Generators (WTGs). Such assessment shall be carried out with due reference to the Bill of Quantities (BOQ) provided in Section-VIII, Scope of works and in accordance with the observations and findings of the technical audit conducted at site, as enclosed in Annexure-A (Section-IV).

During the site visit, bidders shall thoroughly examine the BOQ and undertake a detailed on-site evaluation in order to obtain a comprehensive understanding of the scope of work, nature of activities involved, and the actual site conditions. The site visit shall enable the bidders to familiarize themselves with the works to be executed as per the BOQ and Scope of Work, and to assess all factors that may have a bearing on the execution of the contract.

Please note that the bid will be evaluated as a complete package, including all originally listed and extra items. No additional payment will be made beyond the final quoted amount. It is therefore the bidder's responsibility to ensure that all necessary provisions and associated costs required to make the machines fully operational are included in the bid submission.

The contact details of the SJVN representative for site visit: Sh. Nayab Ahmad, Dy. Gen. Manager (KWPS), Contact No +919418454408

**2.5 Pre-Bid Clarification**

Wherever the bidder finds any discrepancy, omission, ambiguity or conflict in or among the documents forwarded/uploaded or be in doubt as to their meaning and interpretation; such matter should be called to the attention of the Tender Inviting Authority, in writing either by email or by post and it must be received to Tender Inviting Authority latest by [6th day up to 18:00 Hrs from the date of issue of this NIT]. Any modification to the Tender Documents that may become necessary as a result of the pre-bid Clarifications shall be made by SJVN through the issue of an Addendum/Corrigendum/Amendment/Clarification pursuant to clause 2.6. SJVN shall not be obliged to respond to any request for clarification received later than the above period. Further, mere request for clarification from the Bidders shall not be a ground for seeking extension in the deadline for submission of bids. Employer's response (including an explanation of the query but not identification of its source) will be uploaded on the GeM portal where the bidder can see clarification/reply to query/ amendment to the Bid Documents, if any.

**2.6 Amendments to Tender Document**

- i. At any time prior to the deadline for submission of Bids, SJVN may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder(s), modify the Tender documents by issuing Addendum /Corrigendum/Amendment/Clarification and the same shall be available on the GeM Portal. No press note will be released in this regard.

Section: II	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 3 of 15
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Therefore, the Bidders are advised to visit the site regularly before deadline for submission of proposal.

- ii. All such Addendum/Corrigendum/Amendment/Clarification shall form integral part of this Tender Document. SJVN shall bear no responsibility or liability arising out of non-receipt of the above in time by the Bidders.
- iii. In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their Bids, SJVN, at its discretion, may extend the deadline for the submission and opening of Bids.

## 2.7 Bid Currencies

The bidder shall indicate the entire bid price in Indian Rupees only.

## 2.8 Period of Validity of Bids

- (i) The bids shall remain valid for 90 days from the last date of submission of bids. **The bid valid for shorter period shall be rejected by SJVN as being non responsive.**
- (ii) In exceptional circumstances, prior to expiry of the original bid validity period, SJVN may request the bidders to extend the period of bid validity for a specified additional period. The request and the responses thereto shall be made in writing or by e-mail/fax. A bidder may refuse the above request. A bidder agreeing to the request will not be required or permitted to modify its bid, but will be required to extend the validity of its bid for the period of the extension.

## 2.9 Authorization

The Bidder shall provide, with the Bid, a written Authorization, indicating that the person(s) signing the bid has (ve) legal authority to sign and submit the Bid and that the bid is binding upon the Bidder during the full period of its validity as per sub-clause 2.8. and shall be in accordance with following:

- (i) **Sole proprietor Firm:** In case the bidder is a Sole Proprietor Firm, the bidder shall submit Self-declaration /certificate declaring that his/her Concern is a Proprietary Concern and he/she is sole proprietor of the Concern along with PAN in the proprietor name.
- (ii) **Partnership Firm:** In case the bidder is a partnership firm, the bidder shall submit a Power of Attorney duly authorizing one or more of the partners of the firm or any other person (s), authorized by all the partners to act on behalf of the firm and to submit & sign the tender, sign the Agreement.
- (iii) **Other than Sole Proprietor/Partnership Firm**  
In case the nature of the Bidder is other than Sole Proprietor/Partnership Firm, the bidder shall submit duly notarized power of attorney in favour of person authorized to sign along with supporting documents such as board or shareholders resolution/power of attorney in favour of the person executing the power of attorney in favour of person authorized to sign and submit the bid, as required.

## 2.10 Bid Security /Earnest Money Deposit

Section: II	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 4 of 15
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2.10.1 The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD) of **Rs. 18,45,104/-** either in the form of Demand Draft in favor of “SJVN Ltd” payable at Delhi or irrevocable Bank Guarantee as per Format 4 of Section VII of this tender document (valid for a period 90 days beyond the validity of the bid as mentioned in Clause 2.8 of this Tender Document. The Bank Guarantee should have been issued by an Indian Nationalized /Scheduled Commercial Bank. Scanned copy of Bank Guarantee towards EMD is to be submitted online along with the Bid in first envelope (Techno commercial Bid). The Original Bank Guarantee is to be submitted in a sealed envelope along with the offline submission. The bidder may also submit the EMD through GeM Portal in the form of BG/DD.

All the Bank Guarantees shall also be transmitted through SFMS Gateway by the issuing Bank to the designated Bank of SJVN as detailed out below:

Beneficiary Name: SJVN Limited Corporate Head Office, Shakti Sadan, Shanan, Shimla Himachal Pradesh-171006  
 Account No: 10835926299  
 IFSC Code: SBIN0063985  
 Bank Branch: State Bank of India, Shimla (H.P.)

2.10.2 Micro or Small Enterprises (MSE)/ Start Up Units recognized by the Govt of India and Bidders under categories mentioned at Clause No. 4(xiii)(m) of GeM GTC are exempted from the submission of EMD. However, the bidder seeking EMD Exemption under Clause No. 4(xiii)(m)(i) of GTC, shall be required to submit UDYAM Registration / Udyog Aadhaar registered with any of the following NIC 5-digit Codes along with bid:

**27101:** Manufacture of power generators (except battery charging alternators for internal combustion engines), motor generator sets (except turbine generator set units)

**27103:** Manufacture of electric motors (except internal combustion engine starting motors)

**28110:** Manufacture of engines and turbines, except aircraft, vehicle and cycle engines

**33121:** Repair and maintenance of engines and turbines excluding aircraft, vehicle and cycle engines

**33140:** Repair of electrical equipment

**35106:** Electric power generation using other non-conventional sources

**42201:** Construction and maintenance of power plants

**71100:** Architectural and engineering activities and related technical consultancy

Section: II	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 5 of 15
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The bidders seeking EMD exemption (including MSEs/ Start Up Units) who have applied for registration or renewal of registration, but have not obtained the valid certificate till the last date of submission of bids, are not eligible for any exemption/preference.

- 2.10.3 In case a bidder opts to take the exemption of EMD on the basis of MSE/NSIC/Start Up certificate as per clause no 2.10.2 above, then bidder is obligated to submit the required UDYAM Registration / Udyog Aadhaar/Start Up certificate along with the dully signed Bid Security Declaration Form as per Attachment 6 of Section VII: Forms & Formats of this tender document. The bids without Bid Security Declaration shall be summarily rejected as being non-responsive.
- 2.10.4 If the MSE/NSIC certificate does not contain any of NIC code as mentioned above in clause no. 2.10.2 pertaining to the service being sought by SJVN, and no EMD is found submitted, then SJVN may ask the bidder to submit the EMD. The same should be paid in the form, of DD/BG as per the bank details provided in Clause 2.10.1 or in the form of BG as mentioned in clause 2.10.1 above within 05 (five) days from the date of SJVN's notification by E-mail/ Letter, failing which, the bid submitted by such Bidder(s) shall be considered without payment of tender document fee and shall be declared non responsive.
- 2.10.5 Unless otherwise mentioned in clause 2.10.2, the bids without EMD shall be summarily rejected as being non-responsive.
- 2.10.6 The bid securities of unsuccessful bidders will be returned within 30 days after the issuance of Letter of Award.
- 2.10.7 No interest shall be payable by SJVN on the value of submitted EMD.
- 2.10.8 The Bid Security / EMD may be forfeited or necessary action may be taken as per Bid Security Declaration Form submitted by the firm along with their bid (as applicable)
- i. if the bidder withdraws or modify its bid during the period of bid validity specified by the bidder in the Tender Document **or**
  - ii. If the bidder is found involved in Fraudulent and Corrupt Practices.
  - iii. In the case of a successful bidder, if the bidder fails,
    - a) to accept the Letter of Award/GeM Order within the stipulated time or
    - b) to sign the Contract Agreement within the stipulated time.
- 2.10.9 It may be noted that there shall be no exemption in submitting the Contract Performance Guarantee (CPG), in case the MSME/ Start Up Bidder is declared as the Successful Bidder and submission of CPG shall be mandatory for the successful bidder after award of Contract as per provision specified in the Contract.

**2.11 No Deviation Bid:**

Bidder may note that Bid shall be submitted on the basis of “NO DEVIATION” and shall be in full compliance to the requirements of Tender Document. Bidders shall give undertaking in this regard as per **Attachment 4** of Section VII: Forms & Formats of Tender Document. The bids with deviations shall be considered as nonresponsive and shall be liable for rejection.

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## 2.12 Format and Signing of Bid

- 2.12.1 The Bid Response Sheets shall be signed by a person duly authorized to sign on behalf of the Bidder. Each and every page of the documents submitted in the bid must be signed by usual signature of the person duly authorized pursuant to Clause 2.9.
- 2.12.2 The bid should be serially numbered and properly indexed mentioning all constituents of bid including any enclosures/attachments etc. and their location page numbers in the bid. Failure to submit the bid in systematic manner as above may result oversight of any important information provided by the bidder for which SJVN shall not be responsible.
- 2.12.3 The bid should be serially numbered and properly indexed mentioning all constituents of bid including any enclosures/attachments etc. and their location page numbers in the bid. Failure to submit the bid in systematic manner as above may result oversight of any important information provided by the bidder for which SJVN shall not be responsible.
- 2.12.4 The Bid shall contain no overwriting, alterations, omissions, or additions, unless such corrections are initiated by the person(s) signing the Bid. Corrections if any shall only be made by scoring out the cancelled portion, writing the correction, initiating and dating it by the person(s) signing the Bid.
- 2.12.5 All witnesses and sureties shall be persons of status and their full names, occupations and addresses shall be stated below their signatures

## 2.13 Document Comprising the Bid

### 2.13.1 The Bid submitted by the Bidder shall comprise the following documents:

- i) Format-1: Letter of Bid duly completed and signed by the Bidder, together with all Attachments identified
- ii) Attachment 1:- Certification about Mandatory Information to be required to upload the award details on Central Procurement Portal (CPP) i.e. <https://eprocure.gov.in/cppp>
- iii) Attachment 2: Authorisation as per Clause 2.9 of Section II:ITB.
- iv) Attachment 3: Confidentiality Undertaking
- v) Attachment 4: NO DEVIATION CERTIFICATE
- vi) Attachment 5: Bid Security Declaration (if Applicable)
- vii) Attachment- 6: Undertaking in the form of Declaration of Eligibility
- viii) Attachment 7: **Self-Certification under Preference to “MAKE IN INDIA” Policy**
- ix) Attachment 8: **Undertaking in compliance of Ministry of Finance, Government of India order no F. No. 6/18/2019-PPD dated 23.07.2020**
- x) Attachment 9: **Undertaking fatalities or major accidents**
- xi) Format-2: Pre Contract Integrity Pact

Section:  
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*“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.*

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- xii) **Format-3:** Duly filled Techno -Commercial Bid Response Sheet (TBRS) together with all attachments/data/documentary evidences in support of fulfilment of Minimum Qualifying requirement.
  - a) Proof of Bidder's experience of executing the works as per pursuant to MQR Clause 3.1, 3.2, & 3.4.
  - b) Proof of Bidder's Average Annual Turn Over / Annual Audited Financial statements for the last three Financial Years (FYs) ending on 31.3.2025 pursuant to clause 3.3 of MQR
  - c) Undertaking in the form of Declaration of Eligibility as per Attachment- 6.
- xiii) **Format 4:** Bank Guarantee (if applicable) or Proof of submission of EMD
- xiv) GST Registration Certificate/PAN
- xv) Any other additional information/Document(s) pertaining to this tender except price content, if any

### 2.13.2 Bid Price

- i) The bidders must enter an all-inclusive price (including GST) against the "TOTAL Contract Price ( Sum of Sr No. A to C in Price Schedule/BOQ) **INCLUSIVE OF GST**" field while creating their response against the tender in GeM portal. Bidders shall be required to upload the price breakup quoted in the Excel Sheet for each BOQ items (as per OEM specifications) uploaded on the GeM Portal. If there is any discrepancy between uploaded sheet and price quoted on GeM portal, the price quoted on GeM portal shall prevail and will be adopted for evaluation.
- ii) Price Bid uploaded without giving any of the details of the taxes (Including rates and amounts) will be considered as inclusive of all taxes including GST.
- iii) Bidders are advised to go through GeM GTC and uploaded bid documents thoroughly before creation of their bids
- iv) Before submission of Bids, Bidders are requested to make themselves fully conversant with all Conditions of the Bid Document and other relevant information related to the works/services to be executed under the contract.
- v) It is advised that during quoting of their rates, the bidder must analyse all costs involved to carry out the services as per scope of the Works, services, BOQ and the terms & conditions stipulated in the Tender Document as well as **payment of Annual milestone charges/Transaction Charges/Any other charges as applicable at the time of acceptance of GeM Order**. All such costs shall be deemed to be included in the quoted price.
- vi) No document has to be submitted through Offline mode or through Email etc. All the documents need to be uploaded in the GEM portal itself.

### 2.13.3 Marking of offline Submission: The envelope containing hard copy of documents shall be marked as follows:

**Hard Copy of documents for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and**

Section: II	<i>"Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra".</i>	Page 8 of 15
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**Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”. (GEM No:-----).**

**DO NOT OPEN BEFORE [time and date]”**

**2.13.4 Offline Submission: Bidders shall submit the following documents in an envelope by the due date and time of receipt of bid:**

- a) Authorization as per sub-clause- 2.9.
- b) EMD in the form of DD/BG as per the clause no. 2.10.1 (if applicable)
- c) Integrity Pact as per the Clause 2.1

The envelope received late or after the prescribed due date and time will not be entertained. SJVN will not be responsible for any postal delay.

2.13.5 No price sensitive information is to be submitted in the form of hard copy.

2.13.6 The envelope containing hard copy of documents shall;

- i. be addressed to the Employer at the address provided in the NIT;
- ii. bear the name and identification number of the contract as defined in the NIT; and
- iii. provide a warning not to open before the time and date for bid opening, as specified in the NIT.

2.13.7 In addition to the identification required in Sub-clause 2.13.6, the envelopes shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "Late Bid" pursuant to Clause 2.16.

2.13.8 If the envelope(s) are not sealed and marked as above, the Employer will assume no responsibility for the misplacement.

**2.14 Preparation, Uploading and Submission of Bid**

Bids are to be submitted through GeM Portal as per GeM Instructions, General Terms Conditions (GTC) of GeM and in accordance with the Tender Documents. Bidders must use their GeM Seller ID and Password for participation in the tender. Vendors who do not have GeM Seller ID must register themselves as Seller in GeM Portal by visiting Government e-Marketplace Website - <https://gem.gov.in/>. The Bidders are required to submit their bid as per Bid Specification uploaded on GEM Portal.

**2.15 Deadline for Submission of Bids**

**2.15.1** Complete Bid must be uploaded through GeM Portal by the last date and time for submission of bids as stipulated under Clause 1.2 of NIT (Section -I) of this Tender Document or as specified in subsequent amendment for the same. Similarly, Hard copy of the documents as required to be submitted pursuant to Clause 2.13.4 shall be submitted by the Bidders within the timeline specified in Clause 1.2. If the last

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date of submission of Hardcopy of documents happens to be a holiday of SJVN, the same shall be considered as the next working day of SJVN.

**2.15.2** The Employer shall in no case be responsible for delay on account of internet connectivity, technical issues/glitches on the portal, delay on account of postal services or any other reasons whatsoever and Bidders are advised to submit their bids well in advance to avoid such delays.

**2.15.3** The Employer may, in exceptional circumstances and at its discretion, extend the deadline for submission of bids by issuing an Amendment. In such case, all rights and obligations of SJVN and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

**2.16 Late Bids:**

Online submission of the bid will not be permitted on the portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode. Similarly hard copies of the documents as required to be submitted, if received by the Employer after the deadline for submission as prescribed in NIT, then it will be considered as 'Late Bid' notwithstanding the fact that the bidder has uploaded the bid online within the stipulated deadline. In such a case, the uploaded online bid on the portal shall be considered as non-responsive and shall not be considered for further evaluation.

**2.17 Modification, Substitution and Withdrawal of Bids:**

**2.17.1** The Bidder may modify, substitute, or withdraw his bid after its submission, but in any case, before the deadline for submission as per the provisions at the portal.

**2.17.2** Any alteration/ modification in the Bid or additional information supplied subsequently to the Bid due date and time shall be disregarded.

**2.17.3** Withdrawal of a Price Bid during the interval between the deadline for submission of Bids and expiration of the period of Bid validity shall result in the forfeiture of the Bid Security/EMD pursuant to Sub-Clause 2.10.8.

**2.18 Bid Opening:**

**2.18.1** The Employer will open the Techno-commercial Bids and the Price Bids in the presence of Bidders' representatives who choose to attend, at the time, date, and location stipulated in the Tender Document. The Bidders' representatives who are present shall sign a register evidencing their attendance.

**2.18.2** Initially, the Techno-commercial Bids shall be opened on scheduled date of opening of the Techno-commercial Bids and shall be evaluated.

**2.18.3** The Price Bid shall be opened only of those bidders whose Techno-commercial Bids are found Techno-commercially qualified. The date of opening of Price Bids will be informed to Techno-commercially qualified bidders through Portal. Price Bids

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of the Bidders whose Bids not found Techno-commercially qualified shall not be considered for opening and shall not be considered at all any further.

**2.18.4** Price Bids shall be opened on due time, date and place as specified in invitation letter by the Employer.

**2.18.5** At the time of opening, all important information and any such other details as the Employer may consider appropriate, will be announced by the Employer. This shall include but may not be limited to the Bidders' names, the Bid Prices including deviations and the presence (or absence) of bid security/EMD.

**2.18.6** If it happens to be a holiday or due to any other technical reasons like non-availability of the Committee Members etc. on the day of opening of the tender, the Bids shall be opened on next working day at the same place and time.

**2.18.7** SJVN shall not be responsible if online bid could not be opened within reasonable time for whatsoever reason. In such a case, the bid shall remain unopened on the portal and shall not be considered at all any further.

**2.19 Clarification on Bids**

To assist in the examination, evaluation, and comparison of bids, Employer may, at its discretion, ask any bidder for clarification of its Bid. The request for clarification and the response shall be through e-mail but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetical errors discovered by the Employer in the evaluation of the Bids. All such responses submitted by the Bidder shall form part of their bid.

**2.20 Determination of responsiveness**

**2.20.1** The Employer will examine the Techno-commercial Bids to determine whether they are complete, whether required EMD, Tender Document Fee (if required) have been furnished, whether the bidder has submitted supporting certificates/documents justifying the qualifications/requirements, whether the documents have been properly signed, whether all the requisite declaration, undertakings have been furnished and whether the Techno-commercial bids are in order

**2.20.2** The Employer may waive any minor informality, non-conformity or irregularity in a bid that does not constitute a material deviation and that does not prejudice or affect the relative ranking of any Bidder as a result of the evaluation of Bids, pursuant to these Clauses

**2.20.3** Prior to the detailed evaluation, the Employer will determine whether each Bid is of acceptable quality, is complete and is substantially responsive to the Tender Document. For purposes of this determination, a substantially responsive Bid is one that conforms to all the terms, conditions and specifications of the Tender Document without material deviations, objections, conditionality or reservations. A material deviation, objection, conditionality or reservation is one (i) that affects in any substantial way the scope, quality or performance of the Contract; (ii) that limits

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in any substantial way, inconsistent with the Tender Document, the Employer's rights or the successful Bidder's obligations under the Contract; or (iii) whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.

**2.20.4** If a Bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

**2.21 Evaluation of Bids:**

**2.21.1 Evaluation of Techno commercial Bids:**

Evaluation of Techno-commercial Bids shall be carried out based on the documents submitted by the bidders in their Techno-commercial Bids and subsequent clarifications/documents submitted by the bidders during evaluation of bids. The Bidder(s) shall be declared as Techno-commercially qualified provided that their bids are substantially responsive and meet the requirements mentioned at **Clause 3.1 to 3.4** of Section-III: Minimum Qualification Requirement (MQR) and other terms and conditions as specified in this tender document. The Price Bids of only those Bidders will be opened who Techno-commercially qualified as per the criteria mentioned above.

**2.21.2 Evaluation of Price Bids:**

- i. Bids will be evaluated based on the lowest overall cost to SJVN (Employer) as per the Price quoted by the bidder. The bidder shall be declared as L1 Bidder, whose the overall cost to SJVN comes out the lowest, provided that his bid is Techno commercially qualified.
- ii. In case, there is a tie among the bidders, then Auto Run option shall run on the GeM portal which will automatically pick the L1 Bidder. In case, auto run facility is not available, then Average Annual Turnover during the last 3 (three) Financial Years as per criteria mentioned at Clause 3.3 will be considered for ranking among them and the bidder who has higher Average Annual Turnover will be declared as L-1 Bidder.
- iii. SJVN Limited reserves the right to cancel the tendering process at any time before award of work without assigning any reasons thereof.

**2.22 Award of Contract**

**2.22.1** The contract under this tender will be awarded to the L-1 Bidder declared in accordance with Clause 2.21.2 i.e. the Successful Bidder and the Letter of Award shall be issued through GeM Portal. Within 72 Hrs after issuance of GeM Order by SJVN or as per timelines specified by GeM Authority, the Successful bidder shall have to accept the GeM Order on GeM Portal complying with the requirement of GeM Portal including payment of Annual milestone charges/Transaction Charges/Any other charges as applicable.

**2.22.2** Purchase Preference to Micro and Small Enterprises is applicable as per the Clause 2.24 (Purchase Preference to Micro and Small Enterprises). Make In India Purchase preference is applicable as per the Clause 2.25.

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**2.22.3** The Letter of Award will constitute the formation of the contract for all intent and purposes until the Contract Agreement/Service Level Agreement is signed between SJVN Ltd and the Successful Bidder pursuant to clause 2.23 hereunder.

**2.22.4** However, SJVN shall be under no obligation to accept the lowest or any other offer received in response to this NIT and shall be entitled to reject any or all offers without assigning any reason whatsoever, any time during the process.

**2.22.5** SJVN reserves the right to accept or reject any or all bids and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected Bidder, or Bidders or any obligation to inform the affected Bidder of the grounds for SJVN's action.

**2.23 Signing of Contract Agreement/Service Level Agreement**

2.23.1 Within 21 (Twenty-One) days after issuance of Letter of Award following Agreements shall be signed between SJVN Limited and the Successful Bidder in two (2) originals on non-judicial stamp paper of appropriate value as per the Format specified in this Tender Document:

- i) Integrity Pact
- ii) Contract Agreement/Service Level Agreement.

2.23.2 One signed copy of original Agreement shall be provided to the Successful Bidder and the other will be retained by SJVN.

2.23.3 Before signing of the Contract Agreement, the successful bidder has to submit the Contract Performance Guarantee (CPG) pursuant to clause-5.18 of Section-V of this Tender Document.

2.23.4 In the event of failure on the part of the successful Bidder to sign the contract, SJVN reserves the right to terminate the LOA issued to the successful Bidder and invoke the Bid Security or the Performance Security if submitted by the successful Bidder.

**2.24 Purchase Preference to Micro and Small Enterprises.**

- i) In case participating MSEs Quote price within price band of L1+15%, such MSE shall be considered for award of contract by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE. In case of more than one such MSE qualifying for 15% purchase preference, the contract shall be awarded to lowest eligible MSE amongst the MSEs qualifying for 15% purchase preference.
- ii) Documentation required to be submitted by MSEs: Categorization and various criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 issued by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES. Bidders claiming the MSE status (MSE-General, MSE-SC/ST, MSE-Woman) against this tender has to submit the following document along with the technical bid for availing the benefits applicable to MSEs:

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a) Udyam Registration Number with Udyam Registration Certificate.

Note : In case bidding MSE is owned by Schedule Caste or Schedule Tribe or Woman entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST/Woman entrepreneur should also be enclosed.

2.25 Make In India Purchase preference: Make In India Purchase preference shall be applicable in this tender as per provision of GeM Portal.

## 2.26 Corrupt or Fraudulent Practices

2.26.1 **It is expected from the Bidders that they will observe the high standard of ethics during the bidding process and Construction of such Contracts. In pursuance of this policy:**

1. For the purpose of this provision, the terms set-forth below shall mean as under:
  - a. **“corrupt practice”** is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party
  - b. **“fraudulent practice”** is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation
  - c. **“collusive practice”** is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
  - d. **“coercive practice”** is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
  - e. **“obstructive practice”** is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.
2. A Bid shall be rejected by SJVN if it is determined at any stage that respective Bidder has engaged in corrupt or fraudulent or Collusive or Coercive practices or obstructive practice in executing the Contract in question and his Bid Security shall be forfeited. The Bidder shall not be entitled for any compensation whatsoever under this clause.
3. SJVN may declare a bidder ineligible, either indefinitely or for a stated period of time, to be awarded a Contract if it at any time determines that the bidder has

Section:  
II

*“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.*

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engaged in corrupt or fraudulent or collusive or coercive practices in competing for, or in executing a Contract.

4. The documents/information submitted by Bidder may be verified by the officials of SJVN for its authenticity at any time and the Bidder/Contractor shall provide all facilities/co-operation in this regard. If it is found that any of the documents/information submitted by the Bidder is not genuine, SJVN shall have full rights to cancel his Bid, forfeit the bid security and terminate the Contract, if awarded.

**2.26.2 SJVN has Anti Bribery Management System (ABMS) in place and ABMS Manual is available on its website <https://sjvn.nic.in/and> may be downloaded from the above mentioned website.**

-----END OF SECTION-----

Section: II	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 15 of 15
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# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

## **SECTION-III : MINIMUM QUALIFICATION REQUIREMENT (MQR)**

The bidder must have completed/commissioned "Similar Works" mentioned below, and must meet the following requirements:

### **3.1 General Technical Experience**

The Bidder/Participating Agency must have successfully executed works in any one or more of the following categories:

- Operation & Maintenance (O&M) of Wind Power Projects including Wind Turbine Generators (WTGs) and associated Unit Substation (USS) / Pooling Substation (PSS);
- Engineering, Procurement and Construction (EPC) installation of Wind Turbine Generators;
- Remedial works comprising repair, restoration, or replacement of Wind Turbine Generators and/or their major components.

Such experience shall be in respect of Wind Turbine Generators of any make, each having a minimum rated capacity of 700 kW, with an aggregate cumulative capacity of not less than 20 MW, executed within India during the last seven (07) years ending on the last date of online bid submission.

### **3.2. Specific Installation/ Repair / Restoration / Replacement Experience**

In addition to Clause 1 above, the bidder must have successfully executed or provided technical manpower for Installation, Repair, Restoration, or Replacement works of Wind Turbine Generators in at least 4 WTGs or having a minimum cumulative capacity of 3.5 MW which shall mandatorily include **any one or more** of the following activities related to Wind Turbine Generators:

- Installation and/or dismantling and/or reinstallation;
- Repair or replacement of major WTG components such as:

Section III	<b><i>"Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra".</i></b>	Page 1 of 3
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- Generator
- Gearbox
- Blades
- Yawing System
- Rotor Hub
- Nacelle

**Note:** Each Wind Turbine Generator involved in such works shall be of **rated capacity not less than 700 kW**.

3.3. The Bidder shall demonstrate a Minimum Average Annual Turnover of ₹ 2,76,76,554/- during the three immediately preceding financial years ending on 31.03.2025 i.e. FY: 2022-23, 2023-24, 2024-25 which should be evidenced by Audited Balance Sheet along with Profit & Loss account or a certificate issued by a practicing Chartered Accountant.

In case the audited Annual accounts for FY: 2024-25 is not available, bidders shall submit an Annual turnover certificate for FY: 2024-25 from a practicing Chartered accountant/Statutory Auditor to demonstrate fulfilment of the above criteria

It is hereby clarified that “Other Income” as indicated in the annual accounts of the Bidder shall not be considered for arriving at the annual turnover.

3.4. The bidder should have an experience of having successfully executed Similar Works during last (07) seven years ending last day of month previous to the one in which bids are invited, should be either of the following: -

(a) The bidder must have completed three similar works each costing not less than the amount equal to ` 3,69,02,071 /-.

or

(b) The bidder must have completed two similar works each costing not less than the amount equal to ` 4,61,27,589 /-.

or

(c) The bidder must have completed one similar work each costing not less than the amount equal to ` 7,38,04,143 /-.

3.5. The Bidder shall have no record of fatalities or major accidents related to their work on wind turbines over the last 3 years. The Bidder shall submit an undertaking in this regard as per the **Attachment: 9** of Section VII: Forms 7 Formats along with its bid.

3.6 Bidder should submit copies of contracts or work orders (clearly indicating Scope of work) along with any one of the below mentioned documents:

Section III	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 2 of 3
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Satisfactory completion/ performance report/certificate.

OR

Proof of release of performance security after completion of the contract.

OR

Proof of settlement /release of final payment against the contract.

If the bidder is executing a contract which is still running and the contract quantity executed prior to the date of online bid closing / submission is equal to or more than the experience mentioned in para 3.4 above, such experience will also be taken into consideration, provided that bidder has submitted the documentary evidence as mentioned above.

3.7 Bidders must not have been banned /de-listed/ black listed / debarred from business by any PSU / Govt. Department during last 03 (three) years on the grounds of corrupt/fraudulent practices. Bidder shall give undertaking in this regard along with bid as per format Attachment- 6 of Section VII of this Tender Document.

**Note: Similar Works means** works pertaining to Operation & Maintenance (O&M) including repair works or EPC installation, or Repair / Restoration / Replacement of Wind Turbine Generators, including execution involving major WTG components, for wind power projects. Due to critical nature of job, MSME and Start-Ups shall not be exempted from MQR criteria.

-----END OF SECTION-----

Section III	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 3 of 3
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# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

## **SECTION-IV : SCOPE OF WORKS**

**Scope of Work for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” commissioning and testing in the project.**

- 1. Introduction:** SJVN Limited is a Navratna, CPSE under administrative control of Ministry of Power, Govt. of India. SJVN has installed and operating a 47.6 MW Wind Power Project at Khirvire and Kombhalne villages, Taluka Akole, Maharashtra.
- 2. Scope of Work:** SJVN intends to get restored five (5) WTGs of Khirvire WPS namely GKV-04, GKV-05, GKV-28.2, GKA-09 and GKA-67 which are currently in breakdown and Remedial work for all 56 WTGs, Unit Substation (USS), Pooling Substation (PSS), Feeder lines etc. in the project.

**Restoration/Repair and remedial works** implies all activities related to the complete job (end-to-end solution) of rectification of deficiencies of the wind turbines and corresponding unit sub-stations including de-erection of defective equipment/ component, supply of new equipment or repairing of existing damaged equipment, re-erection of new/ repaired equipment, installation, testing and commissioning to ensure full functionality and normal operation, services of equipment, tools and manpower or any other associated cost.

**The Broad scope of work under remedial, repair and restoration and commissioning work shall be included but not limited to the following:**

**Part A: Repair & Restoration of 5 no. WTGs including supply of material and services as mentioned in Part A: 1) Material 2) Services of BOQ.**

Section IV	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 1 of 7
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**Location of Wind Turbine Generators (WTGs):**

Sr. No.	Village	No. of WTGs	WTGs Location No.
1.	Khirvire	3	GKV-04, GKV-05, GKV-28.2
2.	Kombhalne	2	GKA-09, GKA-67

**Part B: Remedial works for all 56 WTGs, USS, PSS, Feeder lines & whole project as mentioned in Part B :1) Material 2) Services (A) & (B) of BOQ.**

**Area of Execution of Work**

Equipment/System-All 56 WTG of SJVN KWPS (including but not limited to following) at khirvire and Kombhalne in the district Ahilyanagar in the State of Maharashtra.

- (i) Base of WTG (all Panels and accessories)
- (ii) Top of WTG (All equipment including Nacelle, HUB, Gearbox, Generator etc)
- (iii) Unit Sub-Station, P.S.S & Feeder lines
- (iv) All communication equipment

The Contractor shall undertake rectifications of all audit findings attached as Annexure-A.

**Part C: For Machinery Tools & tackles, equipment handling and any other Miscellaneous services for executing part A & part B.**

**(i) Supply of Components, Spares, and Consumables:**

- a. Supply of components, spares, consumables as listed in the attached Bill of Quantities (BOQ) at Materials part in BOQ, and their installation as per standard procedure.
- b. To provide testing/ calibration certificates of the equipment, wherever applicable.
- c. Provide consumables as needed for installation, commissioning and restoration of the WTGs, including those not mentioned in BOQ.
- d. The contractor is responsible for procuring and supplying all materials and consumables required for the work, including timely deliveries and ensuring the quality of the items.

**(ii) Dismantling and Installation of WTG Components:**

- a. Dismantle i.e erection and de erection of defective WTG components using appropriate tools, jigs, fixtures, and accessories.

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- b. Supply the items listed in the BOQ and installing them according to OEM guidelines.

**(iii) Installation and Commissioning:**

- a. To undertake climb of individual wind turbines and perform installation of the said items in respective wind turbines.
- b. To install the equipment following the OEM guidelines/industry practices to ensure full functionality.
- c. To undertake testing of the installed components thus qualifying fitment to purpose.
- d. To undertake activity of oil filling, greasing and tidying up during the work.
- e. To undertake torquing and tensioning as per GAMESA G58 Model technology protocol.
- f. Complete grid-connected commissioning and commencement of generation from the WTG.

**(iv) Transportation and Mobilization:**

- a. Transportation of faulty materials from WTGs to warehouse/ workshop for repair.
- b. Transportation of all the materials, tools, tackles and equipment from the warehouse to all WTGs, including movement to their specific areas like nacelle, tower, hub and bottom, USS, PSS, Feeder lines at own cost of contractor.
- c. All expenses towards mobilization at site and demobilization including bringing in equipment, work force, materials, dismantling the equipment, clearing the site(s) after completion of work and liaising the State Grid with concerned departments etc. shall be deemed to be included in the prices quoted.
- d. Contractor may have to work in energized or partly energized conditions. In such cases, it shall be the responsibility of the Contractor to arrange for necessary permits or shutdowns and provide skilled and responsible persons for the execution of works. Contractor shall organize his works during the shutdown periods properly and complete the programmed works within the time given. Contractor shall not be paid any extra payments for working under the above said circumstances.

**(v) Tools and Equipment:**

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- a. To provide standard and specialized tools & tackles, fixtures, lifting slings, lifting gear, shackles, cranes, accessories and any specialized tools needed for facilitating dismantling and installing components like the rotor head, generator, pitch slewing ring, and rotor blades, torquing and tensioning activities on the wind turbine.
- b. Provide certificates for all tools, equipment, lifting gear, and cranes, including load test certifications, before starting the work.
- c. All equipment must be in safe working condition with valid statutory certifications and permits for use.
- d. It shall be entirely the Contractor's responsibility to provide, operate and maintain all necessary construction equipment, scaffoldings and safety gadgets, cranes and other lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all the jobs as per time schedules. However, if any equipment/ facility is provided by Owner, the same shall be handed over in original good condition.

**(vi) Crane or an alternative methodology (crane less) for restoring the machines**

The bidder has the flexibility to adopt any industry-standard practice or emerging trend, utilizing either a crane-based or crane-less methodology for restoring the machines. If the bidder opts for a crane-less method, they must ensure that the chosen approach adheres to best industry practices, guaranteeing safety, efficiency, and structural integrity.

Furthermore, the bidder must take full responsibility for ensuring that no damage, modification, or structural alteration occurs to the existing infrastructure, machines, or equipment during the restoration process. The bidder shall be accountable for maintaining the integrity of all components involved and must undertake necessary risk assessments and mitigation measures to prevent any adverse impact.

**If the bidder adopts to Crane or any methodology of restoration:**

- a. Conduct a site survey to assess the accessibility of the crane and equipment to the windfarm and to individual turbine locations.
- b. Construct access roads of suitable length for crane mobilization and prepare a temporary crane platform suitable for de-erection and installation of components in the WTG, as per requirement.

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- c. It is assumed that there will be crane requirement for GKV-05, GKA-67 The Khirvire project site is located on slightly undulating terrain. as per the present site conditions the approach road to these turbines is uneven there is requirement of road patch works across the road around 1km length for GKV-05 and 2km length for GKA-67. However, the contractor is requested to visit the site for actual assessment of cost.
- d. Provide a main crane suitable for lifting/ dismantling the rotor head and a supporting telescopic crane, with additional accessories and earth-moving equipment as necessary.
- e. Provide a puller, if needed based on the road conditions, to facilitate crane movement.
- f. Provide a DG set and a transformer of adequate capacity, if required during shutdown of HT line during crane operation.
- g. To arrange water tanker, miller, all the necessary tools for carrying out civil works if during the pathway preparation.

**(vii) Insurance:**

- a. Provide insurance coverage for dismantling, reinstallation, and commissioning.
- b. Third-party liability insurance.
- c. Provide WC policy.

**(viii) Safety and Compliance:** All activities and repairs should be in compliance with the GAMESA G58 Model technology standards and SJVN safety protocols.

**(ix) Manpower Requirements:**

- a. Provide a crew with the necessary skills and experience for the dismantling and installation of WTG components. Skill and experience matrices to be submitted.
- b. Ensure all crew members possess the required physical fitness certificates.
- c. Provide all necessary personal protective equipment (PPE) to crew members, certified by an authorized agency.
- d. All activities shall preferably be carried out by personnel certified under GWO (Global Wind Organization) standards and by medically fit individuals certified by a recognized medical practitioner. The team/workmen assigned to the task must be experienced and adequately trained to ensure safe and efficient execution of the work

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- (x) **Store:** The contractor shall establish a store for storage of all the spares/ equipment/ consumables supplied till their installation.
- (xi) **Security:** Security and protection of the contractor supplied materials, equipment, tools, tackles, machinery as well as the concerned turbines undertaken for work till completion of the activity shall be Contractor's responsibility.
- (xii) **Maintenance and Housekeeping:** To undertake cleaning/housekeeping and removable of remnant material presence at WTG/USS and PSS, after the executions of work.
- (xiii) Notwithstanding above, the contractor shall undertake all round concrete action for completion of component restoration, supply of consumables and completion of torquing & tensioning activities; performing check on completeness for safety, functionality and operability levels as per specifications of type certificate of GAMESA G58 Model and certify normalcy of the wind turbines in all respect to the satisfaction of EIC.

**(xiv) For Blade Related Works**

1. Carrying out of turnkey solution for Up-tower cleaning of Rotor Blades using suspended access platforms or man basket covering. The work involves but not limited to the following.
  - i) Activities shall be carried out only by GWO certified experienced team
  - ii) Own arrangement for sufficient Water by water tankers including pumping & jet spray system, soft scrubbers & cleaning agent shall be made by the agency to complete the cleaning of blades.
  - iii) The agency engaged should submit before and after cleaning images of all 3 X 56 Nos Rotor Blades and also the areas need further repairs/ refurbishment.
2. Carrying out of Up tower repair and refurbishment of Rotor Blades, which include but not limited to the following repair activities:
  - i) Repair & refurbishment of leading-edge erosion
  - ii) Repair & refurbishment of trailing edge erosion.
  - iii) Surface painting of pressure side / suction side to gain laminar wind flow across the rotor blade profile.
  - iv) Pin hole repairs.
  - v) Repair & refurbishment for normalization of deep surface erosion, surface cracks and minor fractures.

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3. The agency should arrange all necessary materials and equipment's required for execution of work including, man basket, high pressure pump crane wherever required other instruments, fittings/ fixtures, tools, tackles and sufficient clean water (hiring of water tanker) for washing, if required a special generator shall arrange by contractor for carrying out scope of works mentioned here etc.
4. The work should be executed in adherence to Siemens Gamesa technology and safety standards

The description given in the scope of work is only the broad outline of the job. The contractor shall have to perform all associated jobs, which may be considered necessary for the purpose of successful completion of jobs covered in the scope of work without any additional financial implications.

-----**END OF SECTION**-----

Section IV	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 7 of 7
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### A) WTG Observations and rectifications required:

SL	WTG I'D	OBSERVATION	RECTIFICATION CAPA
1	GKA-48	WTG outside grass cleaning required	Routine inspection and cleaning are required.
2	GKA-48	Tower light not glowing and nacelle light not working	Need 7 lights for replacement at the location.
3	GKA-48	Cleaning status not maintained for all WTG inside.	All tower sections, bottom section, nacelle, and hub section need cleaning
4	GKA-48	10% corrosion and paint damage on all tower section joint bolts.	Apply paint to the corroded bolts.
5	GKA-48	Bottom control panel cables not routed properly, including SCADA and power supply cables.	Re-route the cables and secure them properly.
6	GKA-48	Power cables found loose in the cable clamp area; cables are also twisted.	Apply cable ties and secure cables with proper loops in this area.
7	GKA-48	All section entry door rubber covers not connected properly.	Properly connect the rubber covers.
8	GKA-48	Hub inside and outside areas found greasy and oily.	Cleaning required for both inside and outside of the hub.
9	GKA-48	Blade bolts need torque markings after torquing.	Apply torque and marking on both inside and outside of all blade bolts.
10	GKA-48	Gearbox oil hose pipe found with minor leakage	Replace the leakage hose pipe.
11	GKA-48	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
12	GKA-48	Top-side safety rope wire is in an open condition.	Apply 3M tape
13	GKA-48	Generator filter unit found dirty.	Clean the filter unit.
14	GKA-48	Cooling section filters need cleaning or replacement due to dust accumulation.	Replace the filters as needed.
15	GKA-48	Bottom base bolts missing and corroded.	Apply paint, cover the bolts, and provide replacement materials.
16	GKA-48	Kaizen needed for cable loop section in the nacelle area.	Apply rubber mats to the cables to prevent contact with the platform.
17	GKA-50	Bottom power panel main contactor (FG008) not working after grid failure, causing all WTGs to go into manual closing.	Replace the main contactor.
18	GKA-50	Bottom side base bolt caps missing.	Apply 3 caps for bolts and apply rusty bolt paint or grease.
19	GKA-50	Bottom power cable found loose.	Secure the cable using cable ties.
20	GKA-50	Tower light and nacelle light not working.	Replace 4 tower lights and 1 nacelle light.
21	GKA-50	Bottom side control panel display not properly set, and cables not laid properly.	Properly set the display and lay the cables properly.
22	GKA-50	Power cables found loose in the cable clamp area.	Apply cable ties and properly secure the cable loop in this area.
23	GKA-50	10% of tower joint bolts require re-torquing.	Perform torquing of the bolts.
24	GKA-50	Top platform cable oil protection covers not set properly.	Set the cable oil protection covers properly.

25	GKA-50	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
26	GKA-50	Top-side safety rope wire in an open condition.	Apply 3M tape to prevent potential injury.
27	GKA-50	Generator filter unit found dirty.	Clean the generator filter unit.
28	GKA-50	Cooling section filters need cleaning or replacement due to dust accumulation.	Replace the filters as needed.
29	GKA-50	Rotor rain protector cover (fiber body) found damaged.	Replace the damaged rain protector cover.
30	GKA-50	Generator NDE & DE side require greasing.	Apply grease to both NDE and DE rotating sides. Rectify the noise in the NDE bearing side.
31	GKA-50	Gearbox offline filter hose pipe found with minor leakage	Stop the oil leakages by replacing the hose pipe.
32	GKA-50	Hydraulic unit hose pipe connector found with minor oil leakage	Replace the hose pipe.
33	GKA-50	Kaizen required for the cable loop in the tower section.	Apply rubber mats to prevent cables from touching the platform. This applies to all WTGs.
34	GKA-50	Fire extinguisher and first aid kit not available in all WTGs.	Update all WTGs with fire extinguishers and first aid kits.
35	GKA-51	Cable loop area not maintained and touching the platform.	Set the cable loop properly to prevent contact with the platform.
36	GKA-51	Tower light not glowing, and nacelle light not working.	Replace 7 lights at the location (4 tower lights and 1 nacelle light).
37	GKA-51	Cleaning status not maintained for all WTGs inside.	Clean all tower sections, bottom section, nacelle, and hub section
38	GKA-51	10% of tower section joint bolts corroded and paint damaged.	Apply paint and perform torquing on the bolts.
39	GKA-51	Bottom control panel cables not routed properly (SCADA and power supply cables).	Re-route and secure the cables properly.
40	GKA-51	Power cable found loose in the loop area and cable clamp.	Apply cable ties and set the cable loop properly in the area.
41	GKA-51	Cable clamp not connected properly.	Connect the cable clamp properly or replace if necessary.
42	GKA-51	Hub inside and outside areas found greasy and oily.	Clean the inside and outside of the hub.
43	GKA-51	Gearbox sensor cable not routed properly.	Route the sensor cable properly.
44	GKA-51	Gearbox oil hose pipe and filter unit found with minor leakage	Stop the oil leakages by repairing or replacing the hose pipe and filter.
45	GKA-51	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
46	GKA-51	Top-side safety rope wire is in an open condition.	Apply 3M tape to prevent potential injury.
47	GKA-51	Generator filter unit found dirty.	Clean the filter unit.
48	GKA-51	Cooling section filters need cleaning or replacement due to dust accumulation.	Replace the filters as needed.
49	GKA-51	Nacelle top-side aviation lamp not working.	Replace the aviation lamp.
50	GKA-51	Kaizen needed for cable loop section in the nacelle area.	Apply rubber mats to prevent the cables from touching the platform.

51	GKA-51	Kaizen needed for cable loop section in the tower area.	Apply rubber mats to prevent cables from touching the platform. This applies to all WTGs.
52	GKA-51	Fire extinguisher and first aid kit not available.	Update all WTGs with fire extinguishers and first aid kits.
53	GKA-42	WTG nacelle power cable found loose and not routed properly.	Properly route and secure the cable in the gland.
54	GKA-42	Blade side rain cover flap not positioned properly.	Set the cover in the correct position or replace it with a new one.
55	GKA-42	Tower light not glowing.	Replace 4 tower lights and 2 nacelle lights at the location.
56	GKA-42	Nacelle winch motor making noise.	Replace the winch motor.
57	GKA-42	Power cable in loop area found with cable tie and O-ring not set properly.	Properly set the O-rings and secure the cables with cable ties in the loop area.
58	GKA-42	Aviation lamp not working.	Replace the aviation lamp with a new one.
59	GKA-42	Top-side safety rope wire is open.	Apply 3M tape to prevent injury.
60	GKA-42	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
61	GKA-42	Main bearing grease not available; grease is urgently needed.	Fill grease in the main bearing on priority
62	GKA-42	Panel fan filter and generator mesh filter require cleaning for all WTGs.	Replace all panel and generator mesh filters across all sites.
63	GKA-42	First aid box and fire extinguisher not available in all WTGs.	Provide and install first aid boxes and fire extinguishers in all WTGs.
64	GKA-42	Kaizen needed for cable loop section in the nacelle and tower section drum area.	Apply rubber mats to prevent cables from touching the platform.
65	GKA-43	WTG bottom power cable found loose and not routed properly.	Secure the cable properly using cable ties.
66	GKA-43	Bottom tower base bolt caps not available, and bolts are corroded.	Apply 4 new caps and paint the corroded bolts.
67	GKA-43	Tower light not glowing.	Replace 6 tower lights and 2 nacelle lights at the location.
68	GKA-43	Nacelle side pitch pump slip ring hose connector found with oil leakage	Replace the hose connector.
69	GKA-43	Power cable in loop area found with cable tie and O-ring not set properly.	Properly set the O-rings and secure the cables using cable ties in the loop area.
70	GKA-43	Aviation lamp not working.	Replace the aviation lamp with a new one.
71	GKA-43	Cleaning required in all areas inside the WTG.	Clean all areas inside the WTG.
72	GKA-43	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
73	GKA-43	Gearbox hose pipe unit found with minor oil leakage	Inspect 2 hose pipe connectors and stop the leakage
74	GKA-43	Main bearing grease not available. Urgent grease required.	Fill the grease in the main bearing immediately.
75	GKA-43	Gearbox offline filter motor hose pipe leakages found. Filter also needs to be changed.	Replace the leakage hose pipe and the filter.
76	GKA-43	Panel fan filters and generator mesh filters need cleaning for all WTGs.	Replace all panel and generator mesh filters across all WTGs.

77	GKA-43	First aid box and fire extinguisher not available in all WTGs.	Provide and install first aid boxes and fire extinguishers in all WTGs.
78	GKA-43	Kaizen needed for the cable loop section in the nacelle and tower section drum area.	Apply rubber mats to prevent cables from touching the platform.
79	GKA-41	Panel display not available during the audit.	Material is unavailable; needs to be sourced.
80	GKA-41	Panel cables not laid properly in the control panel.	Secure cables properly using cable ties and lay them correctly in the panel.
81	GKA-41	Tower light not glowing.	Replace 8 tower lights at the location.
82	GKA-41	10% corrosion and paint damage on tower section joint bolts. Also, 20% torquing required.	Apply paint to the corroded bolts and perform torquing as required.
83	GKA-41	Power cable in the loop area found loose in cable clamp. Cable loop is also not properly set.	Apply cable clamps and maintain the cable loop as per SOP.
84	GKA-41	Power cable in the loop area found loose in cable clamp. Cable loop is also not properly set.	Apply cable clamps and maintain the cable loop as per SOP.
85	GKA-41	Two grease collectors missing in the hub area, and the hub area is dirty.	Install grease collectors and clean the hub area.
86	GKA-41	Hose pipe connector found with oil leakage	Replace the damaged hose pipe connector.
87	GKA-41	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
88	GKA-41	Gearbox oil filter unit cover found damaged.	Replace the damaged filter cover.
89	GKA-41	Generator coupling fire cover found damaged.	Inspect and ensure the fire cover is properly connected.
90	GKA-41	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
91	GKA-41	First aid box and fire extinguisher not available in all WTGs.	Provide and install first aid boxes and fire extinguishers in all WTGs.
92	GKA-41	Kaizen required for the cable loop section in the nacelle and tower section drum area.	Apply rubber mats to prevent cables from touching the platform.
93	GKA-45	Bottom side power cable found loose.	Apply cable tie and secure the power cable properly.
94	GKA-45	Panel cable laying not done properly in the control panel.	Apply proper cable ties and arrange the cables correctly in the panel.
95	GKA-45	Tower light found not glowing.	Materials required: 07 tower lights, 02 nacelle lights, and 01 bottom light for the location.
96	GKA-45	Cable loop area not maintained; some cables are not in the proper loop.	Set the cables properly in the loop section.
97	GKA-45	Rotor main bearing grease not available.	Apply grease on priority
98	GKA-45	Generator carbon brush found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
99	GKA-45	Gearbox offline filter connector found with minor oil leakage Also, the gearbox filter and offline filter need replacement during PM.	Materials required for filter replacement.
100	GKA-45	Nacelle aviation lamp found not working.	Replace the non-functional nacelle aviation lamp.

101	GKA-45	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
102	GKA-45	Kaizen needed for cable loop sections in the nacelle and tower section drum area.	Apply rubber mats to cables in areas where they touch the platform.
103	GKA-15	Bottom power panel side FG-008 Circuit Breaker found non-functional after grid fail, requiring manual reset for every WTG.	Replace circuit breaker in this WTG.
104	GKA-15	WTG outside customer name and location name not displayed properly.	Add or update the customer and location information.
105	GKA-15	Bottom side control panel cable routing not in proper condition.	Properly route and secure cables in the control panel using cable ties.
106	GKA-15	Power panel cooling fan found not working.	Replace the cooling fan.
107	GKA-15	Bottom control panel SCADA display not available.	Replace the SCADA display.
108	GKA-15	Missing relays in Bottom control panel 24V AUXILIARIES DISTRIBUTION TB (KR020, KR080, KR009, KR010, KR008, KR030).	Replace the missing relays in the 24V AUXILIARIES DISTRIBUTION TB.
109	GKA-15	Tower light not glowing.	Replace 08 tower lights, 2 nacelle lights, and 1 bottom light for the location.
110	GKA-15	One cable gland found loose at the bottom power panel.	Secure the cable gland properly.
111	GKA-15	Bottom side control panel MPCB (FG006) not working.	Replace the MPCB (FG006).
112	GKA-15	Power cable in loop area found loose and O-ring not properly set.	Secure the O-ring and use cable ties to set the cable properly in the loop area.
113	GKA-15	Aviation lamp not working.	Replace the aviation lamp.
114	GKA-15	Gearbox offline oil motor oil leakages near hose connector and pump motor connector.	Replace the hose pipe and motor oil connectors.
115	GKA-15	Tower joints, nacelle bolts, and bottom base bolts need 10% re-torquing.	Perform re-torquing of bolts.
116	GKA-15	Nacelle area yaw brake calipers found with oil leakages and noise during yawing.	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
117	GKA-15	Gearbox oil level found low.	Top up the oil level after stopping all leakages in the gearbox.
118	GKA-15	Nacelle top-side window support missing.	Install the missing window support.
119	GKA-15	Nacelle panel side MPCB (FG-385) not working.	Replace the MPCB (FG-385).
120	GKA-15	Generator slip ring internal copper side damaged with burn marks.	Remove the burn mark/spot on the slipring contacts through the sandpaper & electrical contact cleaning spray as corrective action.
121	GKA-15	Generator carbon brushes found at 20% remaining.	Replace 12 power brushes and 1 earthing brush during PM.
122	GKA-15	Generator DE & NDE side lubrication missing.	Apply lubrication to all rotating parts on priority
123	GKA-15	Panel fan filter and mesh filter require cleaning for all WTGs.	Replace the filters for all WTGs.

124	GKA-15	First aid box and fire extinguisher not available in all WTGs.	Install first aid boxes and fire extinguishers in all WTGs.
125	GKA-15	Kaizen required for cable loop section in nacelle and tower section drum area.	Apply rubber mats to prevent cables from touching the platform.
126	GKA-15	Winch motor load test required, and chain grease required due to disturbance during operation.	Perform load test and inspect/grease the winch motor chain as per OEM guidelines.
127	GKA-15	Rotor lock found damaged, and lock pin setup not available.	Set up the rotor lock system and replace the damaged parts.
128	GKA-15	Hydraulic unit nacelle side oil level low, corroded area, and nitrogen refilling needed.	Apply zinc spray on corroded areas, top up oil, and refill nitrogen as per SOP.
129	GKA-15	Blade side all blades found with low grease.	Apply grease to all blades, both outside and inside.
130	GKA-15	Rotor brake side fire protection cover missing.	Install a new fire protection cover.
131	GKA-15	Nacelle gearbox online pump motor found faulty.	Replace the faulty pump motor.
132	GKA-46	Tower T2 cable found loose.	Properly secure and set the cable in place.
133	GKA-46	Tower light not glowing, also nacelle light not working.	Replace 8 tower lights, 2 nacelle lights, and 1 bottom light.
134	GKA-46	All tower section joint bolts (10% corroded and paint damage). 20% of bolts need torquing.	Apply paint to the corroded bolts and perform torquing on the bolts.
135	GKA-46	Power cable in loop area found loose in cable clamp.	Apply proper cable clamp and secure the cables.
136	GKA-46	All section platforms require cleaning.	Clean all tower sections and platform areas.
137	GKA-46	Main bearing side area found with improper grease.	Remove old grease and apply new grease as per SOP.
138	GKA-46	Bottom power cable routing not properly set.	Properly route and secure the bottom power cable using cable ties.
139	GKA-46	Generator carbon brushes found at 20% life remaining.	Replace carbon brushes during the next preventive maintenance.
140	GKA-46	Generator cable entry gland found loose.	Secure the cable entry gland properly.
141	GKA-46	Kaizen needed for cable loop section in nacelle and tower drum area.	Apply rubber mats to the cable loop areas to prevent contact with the platform.
142	GKA-47	WTG outside grass cleaning required.	Perform routine inspection and cleaning.
143	GKA-47	Tower light found not glowing and nacelle light not working.	Replace 08 tower lights, 02 nacelle lights.
144	GKA-47	Connectivity module not set properly.	Properly set the connectivity module.
145	GKA-47	All tower section joint bolts 10% corroded and paint damaged. Also needs 20% torquing.	Apply paint and perform torquing.
146	GKA-47	Bottom control panel cables not routed properly; SCADA and power supply cables misconnected.	Route cables properly and connect them as required.
147	GKA-47	Power cable in loop area found loose in cable clamp.	Apply cable clamp to secure the cable.
148	GKA-47	All section entry door rubber cover not connected properly.	Reconnect the rubber cover properly.

149	GKA-47	Hub inside and outside areas found greasy and oily.	Clean the hub area and apply fresh grease.
150	GKA-47	Bottom power cable routing not correct.	Re-route and secure the power cable using cable ties.
151	GKA-47	Gearbox oil hose pipe found with minor leakage	Replace the hose pipe or repair the leakages.
152	GKA-47	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
153	GKA-47	Top-side safety rope wire found in an open condition.	Apply 3M tape to prevent injuries.
154	GKA-47	Generator filter unit found dirty.	Clean the filter unit.
155	GKA-47	Cooling section filters all dusty, needs cleaning or replacement.	Replace filters as needed.
156	GKA-47	24V relay missing.	Procure and install the missing relay.
157	GKA-47	Kaizen needed for cable loop section in nacelle and tower drum area.	Apply rubber mat to prevent cables from touching the platform.
158	GKA-36	Bottom Power Panel side FG-008 Circuit Breaker found faulty, not working, and set to manual mode for all WTGs.	Replace circuit breaker in this WTG.
159	GKA-36	Bottom control panel cable routing improper. X8 Digital Input TB missing. SCADA display not functioning. Power supply needed.	• Correct the cable routing and secure cables with glands.
160	GKA-36	Bottom Capacitor Panel side MPCBs missing: FG-003, FG-010, FG-006.	• Replace the missing MPCBs.
161	GKA-36	Bottom Capacitor Panel Contactor (A50-30) found missing.	• Install the missing contactor.
162	GKA-36	Tower light not glowing.	• Replace 8 tower lights, 2 nacelle lights, and 1 bottom light.
163	GKA-36	Crobar (CC5) in IGBT Panel shows burn marks.	• Replace the damaged Crobar.
164	GKA-36	Power cables in loop area found with oily surfaces.	• Clean all cables thoroughly before starting the WTG.
165	GKA-36	Power cables in Loop Area improperly tied with cable ties and O-rings.	• Correct cable tie and O-ring installation. Secure all cables in the loop area.
166	GKA-36	Gearbox breather silica gel color changed.	• Replace the silica gel in the gearbox breather.
167	GKA-36	Aviation lamp not working.	• Replace the aviation lamp.
168	GKA-36	Gearbox offline oil motor shows oil leakage near hose connector and pump motor connector.	• Replace the hose pipe and motor oil connector.
169	GKA-36	Oil found in high quantities on tower platform T1 Top and T2 Top.	• Clean the oil and stop the oil leakage
170	GKA-36	Nacelle yaw brake calipers show oil leakages and abnormal sound during yawing. Yaw Brake Calipers 3 nos: HYB-5211, HYB-5212, HYB-5131.	“99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper.”
171	GKA-36	Gearbox oil level is low.	Fix oil leakage and top up the gearbox oil.
172	GKA-36	Nacelle control panel brake power supply system missing.	Install the missing brake power supply system.

173	GKA-36	Nacelle control panel missing 24V DC relays (KR-332, R-178, KR-595) and malfunctioning Yaw Relay (KR-180, KR-181).	Replace missing and faulty relays.
174	GKA-36	Nacelle control panel missing PT 100 modules: PT-6 & PT-7.	Install the missing PT 100 modules.
175	GKA-36	Nacelle panel side MPCB (FG-385) not working.	Replace the faulty MPCB.
176	GKA-36	Generator slip ring internal copper side damaged with burn marks.	Remove the burn mark/spot on the slipring contacts through the sandpaper & electrical contact cleaning spray as corrective action.
177	GKA-36	Generator carbon brushes worn to 20%.	Replace 12 power brushes and 1 earthing brush.
178	GKA-36	Generator DE & NDE side lubrication missing.	• Apply lubrication to all rotating parts on priority
179	GKA-36	Panel fan filters and generator mesh filters require cleaning across all WTGs.	• Replace all filters and install new ones.
180	GKA-36	First Aid Box and Fire Extinguisher missing in all WTGs.	• Provide First Aid Boxes and Fire Extinguishers for all WTGs.
181	GKA-36	Kaizen required for cable loop section in the nacelle and tower section drum area.	• Apply rubber mats in the cable loop sections to prevent contact with platforms.
182	GKA-36	Nacelle yaw system rim teeth grease is dried up.	• Clean off the old grease and apply new grease to the yaw teeth.
183	GKA-40	Control cables in all tower sections are loose	Properly secure the cables and apply cable ties.
184	GKA-40	Tower light is not glowing	Replace 5 lights at the specified location.
185	GKA-40	10% of the joint bolts in all tower sections are corroded, and paint is damaged. Additionally, 20% require torquing.	Apply fresh paint to the corroded areas and torque the affected bolts.
186	GKA-40	Power cable in the loop area is loose in the cable clamp	Secure the cable properly by applying a cable clamp.
187	GKA-40	Cleaning required on all tower section platforms	Perform cleaning of all tower section platforms.
188	GKA-40	Nacelle body cover is leakage water during rain	Apply torque to all nacelle cover bolts and seal leakages with silica gel.
189	GKA-40	Hose pipe found to have oil leakages	Replace the damaged hose pipe with a new one.
190	GKA-40	Only 20% of the generator's carbon brushes remain intact	Replace the carbon brushes during the next scheduled preventive maintenance (PM).
191	GKA-40	Flap motor is not working	Replace the malfunctioning flap motor.
192	GKA-40	First Aid Box and Fire Extinguisher are not available in all WTG units	Provide a first aid box and fire extinguisher for all WTG units.
193	GKA-40	Kaizen improvement needed for cable loop section in nacelle and tower drum areas	Apply rubber mats in the cable loop sections to prevent contact with the platform.
194	GKA-68	Bottom Power Panel side FG-008 Circuit Breaker is not working; manual charge required on all WTG units.	Replace the circuit breaker in this WTG.
195	GKA-68	A large tree is located outside the WTG area.	Remove the tree to prevent any obstruction.

196	GKA-68	Bottom side control panel cable routing is not properly secured.	Properly route the cables and secure them using glands.
197	GKA-68	Power Panel cooling fan is not working.	Replace the non-functional cooling fan.
198	GKA-68	Bottom control panel's Controller Board-1 is not working, as per the OEM team.	Replace Controller Board-1 in the bottom control panel.
199	GKA-68	Bottom capacitor panel's sideline protector fuses (FF001) 40A are faulty.	Replace 3 faulty fuses with new ones.
200	GKA-68	Tower light is not glowing.	Replace 8 tower lights, 2 nacelle lights, and 1 bottom light.
201	GKA-68	Bottom control panel's contactor (A26-30-10) is missing.	Replace the missing contactor with a new one.
202	GKA-68	Several MPCB units in the bottom side control panel are not working: FG015, FG008, FG004, FG006, FM005 MCB.	Replace the faulty MPCBs and MCBs in the bottom side control panel.
203	GKA-68	Power cable in the loop area is improperly secured with cable ties and O-rings.	Properly secure cables with O-rings and cable ties.
204	GKA-68	Aviation lamp is not working.	Replace the non-functional aviation lamp.
205	GKA-68	Gearbox oil motor is leakage near hose connector and pump motor connector.	Replace the leakage hose pipe and motor oil connector.
206	GKA-68	Excessive oil found on the T1 and T2 top platforms.	Clean the oil and stop the leakages to prevent further issues.
207	GKA-68	Nacelle area yaw brake calipers are leakage oil and making noise during yawing.	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
208	GKA-68	Gearbox oil level is low.	Maintain the oil level after fixing any leakages, then top up the gearbox oil.
209	GKA-68	Nacelle control panel's Yaw Relay 24V DC is malfunctioning and missing (KR594, KR595).	Replace the missing or malfunctioning yaw relay.
210	GKA-68	Nacelle top side window support is missing.	Replace the missing window support.
211	GKA-68	Nacelle panel side MPCB (FG-385) is not working.	Replace the faulty MPCB (FG-385) in the nacelle panel.
212	GKA-68	Generator slip ring has internal copper damage and burn marks.	Remove the burn mark/spot on the slipring contacts through the sandpaper & electrical contact cleaning spray as corrective action.
213	GKA-68	Generator carbon brushes are at 20% capacity.	Replace 12 power brushes and 1 earthing brush during the next preventive maintenance (PM).
214	GKA-68	Lubrication is not available for the DE & NDE sides of the generator.	Apply lubrication to all rotating parts in the WTG.
215	GKA-68	Panel fan filters and generator mesh filters need cleaning for all WTGs.	Clean all panel fan filters and mesh filters for all WTGs, and replace if necessary.
216	GKA-68	First Aid Box and Fire Extinguisher are missing in all WTGs.	Provide and install first aid boxes and fire extinguishers in all WTGs.
217	GKA-68	Kaizen needed for cable loop sections in nacelle and tower drum areas.	Apply rubber mats in the cable loop sections to prevent cable damage from touching the platform.
218	GKA-68	Rotor brake is malfunctioning.	Inspect the rotor brake and set it properly.

219	GKA-35	Base bolt found rusty and cover missing.	Apply paint and add cover.
220	GKA-35	Tower light not glowing.	Provide 5 new lights for the location.
221	GKA-35	All tower section joint bolts 10% corrode and 20% torquing required.	Apply paint and perform torquing.
222	GKA-35	Power cable in the loop area found loose in cable clamp.	Apply cable clamp.
223	GKA-35	Bottom base platform cleaning required on priority	Clean bottom base platform. Remove water and oil accumulation.
224	GKA-35	Two grease collectors missing in the hub side, and the hub area are not clean	Add grease collectors and clean the hub area.
225	GKA-35	Hose pipe connector oil leakage found.	Replace the hose pipe connector.
226	GKA-35	Generator carbon brush is 20% worn.	Replace the carbon brush during PM.
227	GKA-35	Entry door rubber cover missing.	Add new rubber cover.
228	GKA-35	MPCB feedback bypass found.	Check and apply proper connection.
229	GKA-35	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
230	GKA-35	Kaizen needed for cable loop section in the nacelle and tower section drum area.	Apply rubber mats to cables to prevent contact with the platform.
231	GKA-53	Bottom side power cable found loose.	Apply cable ties and secure power and control cables properly.
232	GKA-53	Panel cable laying not properly done in the control panel.	Use proper cable ties and arrange cables correctly in the panel.
233	GKA-53	Tower light not glowing.	Provide 8 new lights for the location.
234	GKA-53	LT cable gland found open.	Apply a gland or cover the cable entry point using a gland or sheet.
235	GKA-53	LT panel door found open.	Repair and close the door.
236	GKA-53	Power cable in the loop area found loose in cable clamp. Also, cable loop is not properly laid.	Apply a cable clamp and maintain the cable loop as per SOP.
237	GKA-53	Nacelle flap slider sensor not working.	Provide required material for replacement.
238	GKA-53	Gearbox mounting plate rubber support found damaged.	Check the gearbox mounting.
239	GKA-53	Hose pipe connector has an oil leakages.	Replace the hose pipe connector.
240	GKA-53	Generator carbon brush found 20% worn.	Replace the carbon brush during the PM schedule.
241	GKA-53	Oil filter unit cover found damaged.	Replace with a new cover.
242	GKA-53	Nacelle aviation lamp not working.	Replace the lamp.
243	GKA-53	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
244	GKA-53	Kaizen needed for the cable loop section in the nacelle and tower drum area.	Apply rubber mats to cables to prevent contact with the platform.
245	GKA-53	Gearbox oil level found low. Urgent action required.	Top up oil in the gearbox on priority
246	GKA-53	Blade rain cover not properly set. Also, hub area cleaning is inadequate.	Set the blade rain cover properly and clean the hub area thoroughly.
247	GKA-53	Rotor main bearing not greased. No grease observed in the grease collecting tray.	Apply grease to the main bearing.
248	GKA-53	Blade side sleeve ring grease not applied. Greasing required on priority	Apply grease to the sleeve ring.

249	GKA-52	Module display not working of turbine and WTG not connected to SCADA Sub-Station.	Need to replace the connect the turbine with display and connectivity are required of turbine
250	GKA-52	Panel cable laying not done properly in the control panel.	Use proper cable ties and arrange cables correctly in the panel.
251	GKA-52	Tower light not glowing.	Provide 8 new lights for the location.
252	GKA-52	10% of tower section joint bolts are corroded, and paint is damaged. 20% torquing required.	Apply paint and perform the required torquing.
253	GKA-52	Power cable in the loop area found loose in the cable clamp. Also, the cable loop is not properly set.	Apply a cable clamp and maintain the cable loop as per SOP.
254	GKA-52	Nacelle flap slider sensor not working.	Material not available. Obtain required materials.
255	GKA-52	Brake power supply system panel cover damaged.	Apply a cover or use a glass sheet to ensure safe operation of the BPSS.
256	GKA-52	Hose pipe connector has an oil leakages.	Replace the hose pipe connector.
257	GKA-52	Generator carbon brush is 20% worn.	Replace the carbon brush during the next PM.
258	GKA-52	Rotor side cover damaged.	Replace the rotor side cover.
259	GKA-52	T2 section foot step found damaged.	Replace it for safety concerns, or apply reflective tape.
260	GKA-52	Nacelle aviation lamp not working.	Replace the aviation lamp.
261	GKA-52	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
262	GKA-52	Kaizen needed for the cable loop section in the nacelle and tower drum area.	Apply rubber mats to the cables to prevent contact with the platform.
263	GKA-52	Gearbox oil level found low. Urgent action required.	Top-up the gearbox oil on priority
264	GKA-52	Yaw system lubrication required urgently.	Lubricate the yaw moving teeth. Yaw system continues making noise.
265	GKA-52	Noise coming from the generator main shaft NDE & DE sides, lubrication not sufficient.	Apply lubrication to the generator NDE & DE shafts on priority
266	GKA-52	Rotor main bearing greasing not available. No grease observed in the grease collecting tray.	Apply grease to the main bearing.
267	GKA-52	Main bearing grease not available. Greasing required on priority	Apply grease to the main bearing on on priority
268	GKA-52	Blade side sleeve ring grease not available. Greasing required on priority	Apply grease to the sleeve ring on on priority
269	GKA-37	T1 and T2 tower side control cables found loose.	Apply cable ties and secure control cables properly.
270	GKA-37	Panel cable laying not properly done in the control panel.	Apply proper cable ties and arrange cables correctly in the panel.
271	GKA-37	Tower light not glowing.	Provide 4 tower lights, 1 nacelle light, and 1 bottom light for the location.
272	GKA-37	One step of the T3 tower ladder found damaged.	Repair the damaged step.
273	GKA-37	Tower T2 paint damaged and rusty.	Repaint the tower side.
274	GKA-37	Power cable in the loop area found with cracks or damage.	Apply 3M tape and perform repairs as needed.
275	GKA-37	Rubber support missing at the nacelle winch.	Provide 1 rubber support.

276	GKA-37	Gearbox mounting plate rubber support found damaged.	Inspect the gearbox mounting and replace damaged rubber support.
277	GKA-37	Generator carbon brush found 20% worn.	Provide 12 power brushes and 3 earthing brushes for replacement during PM.
278	GKA-37	Hub lock clip not working properly.	Replace the hub lock clip with a new one.
279	GKA-37	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp.
280	GKA-37	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
281	GKA-37	Kaizen needed for the cable loop section in the nacelle and tower drum area.	Apply rubber mats to cables to prevent contact with the platform.
282	GKA-37	Top side safety rope found unsecured.	Apply 3M tape and secure the rope properly.
283	GKA-54	Bottom side power cable found loose.	Apply cable ties and secure power and control cables properly.
284	GKA-54	Panel cable laying not correct in control panel.	Apply proper cable ties and arrange cables correctly in the panel.
285	GKA-54	Tower light not glowing.	Provide 4 tower lights, 1 nacelle light, and 1 bottom light for the location.
286	GKA-54	Bottom base bolt cover found missing and damaged.	Provide 10 bolt caps and apply lubricants to prevent rusting.
287	GKA-54	Bottom side power main contactor switch found damaged.	Replace the damaged contactor switch.
288	GKA-54	Power cable in loop area found loose in cable clamp. Cable loop also not properly set.	Apply cable clamps and maintain the cable loop as per SOP.
289	GKA-54	Bottom control panel 1 MPCB FG006 found not working.	Provide 1 new MPCB and replace the faulty one.
290	GKA-54	Gearbox mounting plate rubber support found damaged.	Inspect the gearbox mounting and replace the damaged rubber support.
291	GKA-54	Hose pipe connector found leakage oil.	Replace the hose pipe connector.
292	GKA-54	Generator carbon brush found 20% worn.	Provide 12 power brushes and 3 earthing brushes for replacement during PM.
293	GKA-54	Hub entry door lock not working.	Replace the lock with a new one.
294	GKA-54	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
295	GKA-54	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
296	GKA-54	Kaizen needed for cable loop section in the nacelle and tower drum area.	Apply rubber mats to cables to prevent contact with the platform.
297	GKA-54	Top side control panel brake power supply system cover found damaged.	Provide material and replace the damaged cover.
298	GKA-54	Top side safety rope found unsecured.	Apply 3M tape and secure the rope properly.
299	GKA-54	Offline gearbox oil motor hose pipe connector found leakage oil.	Replace the hose pipe connector with a new one.
300	GKA-54	Hub area found greasy.	Clean the area properly and stop the oil leakage
301	GKA-34	T1 and T2 tower side control cables found loose.	Apply cable ties and properly secure control cables.
302	GKA-34	Panel cable laying not correct in the control panel.	Apply proper cable ties and organize cables correctly in the panel.

303	GKA-34	Tower light not glowing.	Provide 4 tower lights, 1 nacelle light, and 1 bottom light for the location.
304	GKA-34	Main line contactor switch found damaged and LT power panel found open.	Replace the damaged contactor switch and close the panel.
305	GKA-34	KR079 relay found missing.	Provide the required relay and install it.
306	GKA-34	Power cable in loop area found loose.	Apply cable ties and repair the loose cables.
307	GKA-34	Cable loop area not properly maintained; some cables not in correct loop.	Reorganize cables and ensure proper cable loop configuration.
308	GKA-34	Gearbox mounting plate rubber support found damaged.	Inspect the gearbox mounting and replace the damaged rubber support.
309	GKA-34	Generator carbon brush found 20% worn.	Provide 12 power brushes and 1 earthing brush for replacement during PM.
310	GKA-34	Some cables in nacelle area found with minor cracks.	Apply 3M tape and inspect cable shocks.
311	GKA-34	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
312	GKA-34	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
313	GKA-34	Kaizen needed for cable loop section in the nacelle and tower drum area.	Apply rubber mats to cables to prevent contact with the platform.
314	GKA-34	Top side safety rope found unsecured.	Apply 3M tape and secure the rope properly.
315	Gak-01	T1 and T2 tower side control cables found loose.	Apply cable ties and secure control cables properly.
316	Gak-01	Panel cable laying not correct in control panel.	Apply proper cable ties and organize cables correctly in the panel.
317	Gak-01	Tower light not glowing.	Provide 6 tower lights, 1 nacelle light, and 1 bottom light for the location.
318	Gak-01	Tower foundation bolt caps missing, and bolts found corroded.	Provide 14 bolt caps and apply lubricants to prevent further corrosion.
319	Gak-01	Gearbox mounting rubber support found with minor cracks.	Provide new rubber supports and replace damaged ones.
320	Gak-01	Power cable in loop area found loose.	Apply cable ties and perform necessary repairs.
321	Gak-01	Cable loop area not properly maintained; some cables not in correct loop.	Reorganize cables and ensure proper cable loop configuration.
322	Gak-01	Oil leakages found in hydraulic hose connectors.	Replace the hydraulic hoses and fix the leakage
323	Gak-01	Generator carbon brushes found 20% worn.	Provide 12 power brushes and 1 earthing brush, and replace during PM.
324	Gak-01	Gearbox offline filter connector found with minor oil leakage	Replace the gearbox filter and offline filter during PM.
325	Gak-01	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
326	Gak-01	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
327	Gak-01	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to cables to prevent contact with the platform.

328	GKA-86	WTG base bolt caps and corroded bolts found.	Provide 14 new caps and apply paint or grease to prevent further corrosion.
329	GKA-86	Bottom panel power cable found loose and not properly secured.	Apply cable ties and secure the power cable properly.
330	GKA-86	Panel cable laying not organized in the control panel.	Apply proper cable ties and organize cables correctly in the panel.
331	GKA-86	Tower light not glowing.	Provide 4 tower lights, 1 nacelle light, and 1 bottom light for the location.
332	GKA-86	Cable shocks near the top section found damaged.	Repair the cable shocks and apply 3M tape on the damaged section.
333	GKA-86	Cable cover not properly set on the top platform.	Secure the cable cover properly on the top platform.
334	GKA-86	Power cable in the loop area not properly secured with cable ties and O-rings.	Set the O-rings properly using cable ties and secure the cables in the loop area.
335	GKA-86	Cleaning not maintained in all WTGs.	Clean all WTGs from top to bottom.
336	GKA-86	Hub entry safety cover missing.	Replace the missing hub entry safety cover.
337	GKA-86	Generator carbon brushes worn down to 20%.	Provide 12 new power brushes and 1 earthing brush to replace during PM.
338	GKA-86	Lubrication not maintained at the generator DE & NDE sides.	Provide lubrication materials and prioritize lubrication of all parts.
339	GKA-86	Brake caliper GP20365 found with minor oil leakage	Check and tighten the connector bolts to stop oil leakage Apply necessary torque and settings.
340	GKA-86	First aid box and fire extinguishers not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
341	GKA-86	Kaizen required for cable loop section in nacelle and tower drum areas.	Apply rubber mats to prevent cables from touching the platform.
342	GKA-86	Top side safety rope found in an open condition.	Apply 3M tape to secure and cover the safety rope properly.
343	GKA-06	WTG base bolt caps and corroded bolts found. One bolt hardware missing.	Provide 15 new caps and apply paint or grease. Replace the missing bolt hardware.
344	GKA-06	Panel cable laying not properly organized in the control panel.	Apply cable ties and organize cables properly in the panel.
345	GKA-06	Tower light not glowing.	Provide 2 tower lights and 1 nacelle light for the location.
346	GKA-06	Nacelle side pitch pump slip ring hose pipe found with oil leakage	Replace the hose. New materials are needed.
347	GKA-06	Rotor main bearing grease found missing.	Perform grease application on priority
348	GKA-06	Power cable in the loop area found with cable ties and O-rings not set properly.	Set the O-rings properly using cable ties. Organize the cable loop area.
349	GKA-06	Aviation lamp found not working.	Replace the aviation lamp with a new one.
350	GKA-06	Bottom power panel FG008 main circuit breaker mechanism switch found damaged. FG008 also malfunctioning.	Replace the damaged mechanism and fix the malfunctioning FG008 panel.
351	GKA-06	Generator carbon brushes worn down to 20%.	Provide 12 new power brushes and 1 earthing brush for replacement during PM.
352	GKA-06	Lubrication not maintained at the generator DE & NDE sides.	Provide lubrication materials and apply to all parts as a priority.
353	GKA-06	Wind vane cable gland found open in the panel.	Properly connect the cable gland.

354	GKA-06	First aid box and fire extinguishers not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
355	GKA-06	Kaizen required for cable loop section in the nacelle and tower drum areas.	Apply rubber mats in the cable loop section to prevent cables from touching the platform.
356	GKA-10	WTG base bolt caps and corroded bolts found.	Provide 15 new bolt caps and apply paint or grease.
357	GKA-10	Panel cable laying not organized properly in the control panel.	Apply proper cable ties and organize cables in the panel.
358	GKA-10	Tower light not glowing.	Provide 3 new tower lights and 1 nacelle light for the location.
359	GKA-10	Nacelle side offline filter motor hose connector found with oil leakage	Replace the hose. New materials are required.
360	GKA-10	LT Power panel found open.	Close the panel immediately.
361	GKA-10	Power cable in loop area found with cable ties and O-rings not set properly.	Set the O-rings properly using cable ties and organize the cable loop area.
362	GKA-10	Aviation lamp not working.	Replace the aviation lamp with a new one.
363	GKA-10	Bottom entry door earthing found damaged and not connected to the bolt.	Replace earthing to the bolt.
364	GKA-10	Generator carbon brushes worn down to 20%.	Provide 12 new power brushes and 1 earthing brush for replacement during PM.
365	GKA-10	Lubrication not maintained at the generator DE & NDE sides.	Provide lubrication materials and apply to all parts as a priority.
366	GKA-10	Nacelle SMP12C NC Panel RTD module missing.	Provide a new RTD module for the panel.
367	GKA-10	Nacelle panel yaw relay KR180 and KR181 (24V) missing.	Provide 2 new 24V yaw relays (KR180 and KR181).
368	GKA-10	Winch motor making noise. Chain grease not applied.	Check the brake pads, apply grease to the winch motor chain, and perform a load test.
369	GKA-10	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
370	GKA-10	Kaizen needed for cable loop section in the nacelle and tower drum areas.	Apply rubber mats in the cable loop section to prevent cables from touching the platform.
371	GAK-66	WTG bottom power cable found loose and not properly secured.	Secure cable properly using cable ties.
372	GAK-66	T1 and T2 cell control cables found loose.	Apply proper cable ties and secure the cables in the cell.
373	GAK-66	Tower light found not glowing.	Provide 6 new tower lights and 2 nacelle lights for the location.
374	GAK-66	Nacelle-side pitch pump slip ring hose connector found with oil leakage	Replace the hose. Materials needed for replacement.
375	GAK-66	Power cable in loop area found with cable ties and O-rings not set properly.	Properly set the O-rings and cable ties in the loop area.
376	GAK-66	Aviation lamp not working.	Replace the aviation lamp with a new one.
377	GAK-66	Yaw caliper found with minor oil leakage	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
378	GAK-66	Generator carbon brushes found to be 20% worn.	Replace 12 power brushes and 1 earthing brush during PM.

379	GAK-66	Hydraulic unit found with minor oil leakage	Check the hose pipe connectors and stop the leakage
380	GAK-66	Main bearing grease not available.	Apply grease to the main bearing on on priority
381	GAK-66	Nacelle yaw pinion grease not available.	Apply grease to the yaw pinion on priority
382	GAK-66	Gearbox support main base rubber support found damaged.	Inspect and apply new rubber support if necessary.
383	GAK-66	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
384	GAK-66	Kaizen needed for cable loop sections in the nacelle and tower drum areas.	Apply rubber mats in the cable loop sections to prevent contact with the platform.
385	GAK-67	Bottom side control panel cable routing not in proper condition.	Secure cables properly in the gland.
386	GAK-67	LT panel gland and panel door found open.	Close both the gland and the panel door properly.
387	GAK-67	Tower light not glowing.	Provide 8 new tower lights and 2 nacelle lights for the location.
388	GAK-67	Power cable in loop area found oily, with all cables affected.	Clean all cables thoroughly and ensure proper cable routing.
389	GAK-67	Power cable at bottom side found loose.	Apply cable ties and secure the cables properly.
390	GAK-67	Power cable in loop area found with cables and O-rings improperly set.	Properly set O-rings and cable ties in the loop area.
391	GAK-67	Nacelle area hose pipe hub slip ring found with minor oil leakage	Repair and stop the oil leakage
392	GAK-67	Aviation lamp not working.	Replace with a new aviation lamp.
393	GAK-67	Gearbox oil motor found with oil leakages at the connector and base side.	Replace the connector, check the motor thoroughly, and stop oil leakage
394	GAK-67	Tower platform (T1 Top & T2 Top) found with excessive oil leakage.	Clean the oil and stop further oil leakage
395	GAK-67	Generator slip ring body cover found disconnected; encoder cable gland missing.	Reconnect the cover and install the missing cable gland.
396	GAK-67	Panel fan filters and generator mesh filters need cleaning across all WTGs.	Replace filters and add new ones across all WTGs.
397	GAK-67	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
398	GAK-67	Kaizen needed for cable loop sections in nacelle and tower drum areas.	Apply rubber mats in the cable loop sections to prevent platform contact.
399	GAK-67	Nacelle-side rescue kit not available.	Ensure a rescue kit is available at all nacelle locations.
400	GAK-43N	Bottom side control panel cable routing not in proper condition.	Secure cables properly in the gland.
401	GAK-43N	Oil leakages found in the pitch pump slip ring hose pipe.	Replace the hose pipe (material required).
402	GAK-43N	Tower light not glowing.	Provide 6 new tower lights and 2 nacelle lights for the location.
403	GAK-43N	Entry door earth strip found damaged.	Replace with a new earth strip.
404	GAK-43N	Bottom control panel contactor (A26-30-1) found malfunctioning.	Replace the malfunctioning contactor (material required).
405	GAK-43N	Bottom side control cable not routed properly in the loop.	Set cables properly using cable ties.

406	GAK-43N	T1 & T2 cell cables found loose in the control panel.	Secure cables properly using cable ties in T1 and T2 cells.
407	GAK-43N	Power cables in the loop area found with improper cable ties and O-rings.	Set O-rings and cable ties properly in the cable loop area.
408	GAK-43N	Cable shock protection missing near blue cover on the top platform.	Apply cable covers to exposed cables.
409	GAK-43N	Aviation lamp not working.	Replace with a new aviation lamp.
410	GAK-43N	Gearbox breather found with changed silica color.	Replace the silica breather.
411	GAK-43N	Nacelle tower flange bolts rusty and need 100% torquing.	Replace all rusty bolts and apply proper torquing as per SOP.
412	GAK-43N	Nacelle rotor disc fire blanket missing.	Provide and install a new fire blanket.
413	GAK-43N	Hub side cover found damaged.	Replace the damaged hub cover.
414	GAK-43N	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
415	GAK-43N	Main bearing grease not available.	Apply grease to the main bearing on on priority
416	GAK-43N	Generator DE & NDE side grease levels low, excessive noise present.	Inspect DE & NDE side bearings, replace as needed, and top-up grease.
417	GAK-43N	Panel fan and generator mesh filters need cleaning across all WTGs.	Replace filters and clean them across all WTGs.
418	GAK-43N	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
419	GAK-43N	Kaizen required for cable loop sections in the nacelle and tower drum area.	Apply rubber mats in cable loop areas to prevent platform contact.
420	GKA-19	Bottom side power cable loose found.	Apply cable ties and secure power cables properly.
421	GKA-19	Panel cable laying not done properly in the control panel.	Apply proper cable ties and organize cables in the panel.
422	GKA-19	Tower light not glowing.	Provide 5 tower lights, 1 nacelle light, and 1 bottom light for replacement.
423	GKA-19	Cable loop area not properly maintained; some cables not in the correct loop.	Organize cables properly within the loop section.
424	GKA-19	Cable loop area in T3 control section found with short cables.	Install proper size cables in the loop area.
425	GKA-19	Power loop area in T3 found with missing cable clamps and insufficient cable ties.	Install new cable clamps and cable ties.
426	GKA-19	Control cables in T1 and T2 sections found loose.	Apply cable ties in both sections and secure cables properly.
427	GKA-19	Bottom panel MPCB (FG006) not working.	Replace with a new MPCB.
428	GKA-19	Bottom power panel main contactor switch (FG008) missing.	Provide switch and contactor (issue with grid failure when contactor does not work).
429	GKA-19	Rotor main bearing grease not available.	Apply grease immediately.
430	GKA-19	Gearbox DE bearing grease not available.	Apply grease immediately.
431	GKA-19	Generator DE & NDE side bearing grease not available.	Apply grease immediately.
432	GKA-19	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush

433	GKA-19	Winch motor chain grease not available; load test required.	Apply grease during PM and perform a load test.
434	GKA-19	Flap cover motor not available.	Provide and install the flap cover motor.
435	GKA-19	Hub side grease collection bottle missing.	Provide 3 new grease collection bottles.
436	GKA-19	Gearbox pitch pump hose pipe oil leakages found.	Replace 2 hose pipes to stop the leakage
437	GKA-19	Nacelle aviation lamp not working.	Provide material and replace the lamp.
438	GKA-19	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
439	GKA-19	Kaizen needed for cable loop section in the nacelle and tower drum area.	Apply rubber mats in the cable loop areas to prevent platform contact.
440	GKA-19	Nomenclature is not visible	Add the customer's name and location name to the display.
441	GKA-20	Bottom side power cable loose found.	Apply cable tie and secure power cables properly.
442	GKA-20	Panel cable laying not done properly in the control panel.	Apply proper cable ties and organize cables in the panel.
443	GKA-20	Tower light not glowing.	Provide 4 tower lights, 2 nacelle lights, and 1 bottom light for replacement.
444	GKA-20	Cable loop area not properly maintained; cables not in the correct loop.	Organize cables properly within the loop section.
445	GKA-20	Customer name not displayed.	Display the correct customer's name on the panel.
446	GKA-20	Heavy quantity of water or oil found inside the bottom area.	Clear the water/oil spill to prevent contact with power cables.
447	GKA-20	Generator brake disk side fire blanket missing.	Provide and install a fire blanket immediately.
448	GKA-20	Rotor main bearing grease not available.	Apply grease urgently to the rotor main bearing.
449	GKA-20	Generator DE & NDE side bearing grease not available.	Apply grease urgently to the DE & NDE side bearings.
450	GKA-20	Gearbox oil level found near the low level.	Top up the oil and maintain the gearbox oil level as per SOP.
451	GKA-20	Gearbox online pump motor connector found leakage oil.	Stop the oil leakages from the motor connector.
452	GKA-20	Gearbox online pump motor not working.	Provide and install a new motor.
453	GKA-20	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
454	GKA-20	Safety rope at the top side found with exposed wires.	Apply 3M tape to cover exposed wires.
455	GKA-20	Nacelle aviation lamp not working.	Provide material and replace the non-working lamp.
456	GKA-20	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
457	GKA-20	Kaizen needed for cable loop section in the nacelle and tower drum area.	Apply rubber mats in the cable loop areas to prevent platform contact.
458	GKA-17	Bottom side power cable loose found.	Apply cable tie and secure power cable properly.
459	GKA-17	Panel cable laying not done properly in the control panel.	Apply proper cable ties and organize cables in the panel.

460	GKA-17	Tower light not glowing.	Provide 4 tower lights, 2 nacelle lights, and 1 bottom light for replacement.
461	GKA-17	Cable loop area not properly maintained; some cables not in proper loop.	Organize cables properly within the loop section.
462	GKA-17	Gearbox mount support rubber inside found damaged.	Replace with new support rubber.
463	GKA-17	Top side nacelle control panel 24V relay (KR254, KR255) found missing.	Provide and install missing relays.
464	GKA-17	Nacelle side generator power cable gland found loose.	Secure cables properly in the gland.
465	GKA-17	Generator DE & NDE side bearing grease not available.	Apply grease urgently to the DE & NDE side bearings.
466	GKA-17	Gearbox oil level found low.	Top-up the oil and maintain the gearbox oil level as per SOP.
467	GKA-17	Yaw pressure disc needs cleaning and new grease applied due to noise.	Clean the yaw pressure disc and apply new grease.
468	GKA-17	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
469	GKA-17	Safety rope at the top found with exposed wires.	Apply 3M tape to cover exposed wires.
470	GKA-17	Nacelle aviation lamp not working.	Provide material and replace the non-working lamp.
471	GKA-17	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
472	GKA-17	Kaizen needed for cable loop section in nacelle and tower section.	Apply rubber mats in the cable loop areas to prevent platform contact.
473	GKA-18	Bottom side power cable loose found.	Apply cable tie and secure power cable properly.
474	GKA-18	Customer name and WTG name not displayed properly.	Add the correct customer and WTG names.
475	GKA-18	Panel cable laying not done properly in control panel.	Apply proper cable ties and organize cables in the panel.
476	GKA-18	LT Power cable bottom LT panel cable gland missing.	Add new cable gland sheet or properly close the open hole.
477	GKA-18	LT Power cable bottom LT panel cable sleeve missing. Panel door open.	Apply sleeve or 3M tape to cables, close panel door securely.
478	GKA-18	Tower light not glowing.	Provide and install 5 tower lights, 2 nacelle lights, and 1 bottom light.
479	GKA-18	Cable loop area not maintained, some cables not in proper loop.	Set cables properly in the loop section, use cable ties and O-rings.
480	GKA-18	Gearbox mount support rubber found damaged.	Replace with new support rubber.
481	GKA-18	Nacelle top platform power cable found with minor damage.	Apply 3M tape to repair the three power cables.
482	GKA-18	Pitch pump hose pipe in nacelle area found leakage oil.	Stop oil leakages and replace both hose pipes (materials needed).
483	GKA-18	Gearbox oil level found near low level.	Top-up oil and maintain gearbox oil level as per SOP.
484	GKA-18	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
485	GKA-18	Safety rope on top found with exposed wire.	Apply 3M tape to cover the exposed wire.

486	GKA-18	Nacelle aviation lamp not working.	Provide and install a new aviation lamp.
487	GKA-18	First Aid Box, Fire Extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
488	GKA-18	Kaizen needed for cable loop section in nacelle and tower section drum area.	Apply rubber mats to cables to prevent contact with platform.
489	GKA-09	Bottom side control panel cable routing not in proper condition.	Set cables properly in gland.
490	GKA-09	Tower light not glowing.	Provide and install 8 tower lights, 2 nacelle lights.
491	GKA-09	Gearbox mounting found rusty.	Clean properly and apply zinc spray.
492	GKA-09	Gearbox breather silica gel showing minor color change.	Replace with new silica gel.
493	GKA-09	Nacelle flap sensor motor not working.	Replace the motor.
494	GKA-09	Power cable in loop section not maintained.	Set cables properly in the loop section.
495	GKA-09	Power cable top platform side cover missing.	Apply cover material to protect cables.
496	GKA-09	Power cable bottom side found loose.	Apply proper cable tie and secure the cable.
497	GKA-09	Power cable in loop area not tied properly (cable tie and O-ring issues).	Set O-rings and cable ties properly in the loop area.
498	GKA-09	Nacelle area hose pipe hub slip ring found leakage oil.	Close oil leakages, change hose pipe.
499	GKA-09	Aviation lamp found not working.	Replace the aviation lamp.
500	GKA-09	Gearbox offline motor oil leakages in connector and base side.	Stop oil leakages and replace hose or connector.
501	GKA-09	Nacelle cables not properly looped and tied.	Use cable ties to properly loop and secure cables.
502	GKA-09	Nacelle hydraulic unit found rusty.	Apply zinc spray to prevent further rust.
503	GKA-09	Nacelle emergency switch not working.	Replace the emergency switch.
504	GKA-09	Main bearing grease not available.	Apply grease urgently to prevent damage.
505	GKA-09	Generator DE&NDE side bearings found low on grease and abnormal sound.	Apply grease to both DE and NDE sides on priority · If Sound still persist the TUVR shall recommends for Vibration Testing of bearing to know' s the trends of frequency level and take CAPA accordingly.
506	GKA-09	Panel fan mesh filter needs cleaning across all WTGs.	Replace filters for all WTGs.
507	GKA-09	First Aid Box, Fire Extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers to all WTGs.
508	GKA-09	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to prevent cables from touching platform.
509	GKA-13	Bottom side UPS panel not in use due to technical issue.	Remove unwanted materials and use other side.
510	GKA-13	Customer name not displayed, and WTG name not added. Grass around WTG is high.	Add customer and WTG names and clean the outside grass.
511	GKA-13	Panel cable laying not properly organized in the control panel.	Apply proper cable ties and arrange cables correctly in the panel.
512	GKA-13	Gearbox hose pipe (2) found with minor leakage	Stop the leakage and replace the hose pipes.

513	GKA-13	Hub side grease collection caps (2) missing.	Add new grease collection caps.
514	GKA-13	Tower light not glowing.	Provide and install 3 tower lights, 1 nacelle light, and 1 bottom light.
515	GKA-13	Cable loop area not maintained, some cables not properly looped.	Properly set cables in the loop section, use cable ties and O-rings.
516	GKA-13	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts.
517	GKA-13	Nacelle top platform power cable found with minor damage.	Apply 3M tape to repair the 3 damaged power cables.
518	GKA-13	Pitch pump nacelle area hose pipe found leakage oil.	Stop oil leakages and replace the hose pipe.
519	GKA-13	Generator power cable gland found loose.	Secure the cable gland properly.
520	GKA-13	Generator carbon brushes found 20% worn.	Replace 12 power brushes and 1 earthing brush during PM.
521	GKA-13	Safety rope at the top side with open wire condition.	Apply 3M tape to cover the exposed wire.
522	GKA-13	Nacelle aviation lamp not working.	Replace the aviation lamp.
523	GKA-13	First Aid Box, Fire Extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers to all WTGs.
524	GKA-13	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to prevent cables from touching the platform.
525	GKV-19	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail.	Replace the malfunctioning circuit breaker. High priority, material needed.
526	GKV-19	Nomenclature are not visible	Need to paint of nomenclature
527	GKV-19	Panel cable laying not properly arranged in the control panel.	Apply proper cable ties and organize cables correctly in the panel.
528	GKV-19	Bottom Power Panel FG-016 circuit breaker has burn marks.	Replace the cable connection and contactor.
529	GKV-19	Bottom Power Panel cable gland loose.	Secure the cable gland properly in the panel.
530	GKV-19	Bottom side power cable not properly connected in tray (loose).	Reconnect cables in the tray using cable ties.
531	GKV-19	Hub side grease collection caps missing (4). Need cleaning.	Add new grease collection caps and perform cleaning.
532	GKV-19	Tower light not glowing.	Provide and install 7 tower lights, 1 nacelle light, and 1 bottom light for location.
533	GKV-19	Cable loop area not properly maintained, cables not properly looped.	Organize cables in the loop section using cable ties and O-rings.
534	GKV-19	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts.
535	GKV-19	Nacelle main bearing grease not available.	Apply grease to the main bearing immediately.
536	GKV-19	Pitch pump nacelle area hose pipe leakage oil.	Stop the oil leakages and replace the hose pipe.
537	GKV-19	Gearbox offline motor hose connector oil leakage	Replace the hose connector to stop oil leakage
538	GKV-19	Generator carbon brushes found 20% worn.	Replace 12 power brushes and 1 earthing brush during PM.
539	GKV-19	Gearbox oil level indication within the fill range area.	Adjust oil level and refill if needed as per SOP.

540	GKV-19	Yaw system making noise, requires checks on yaw motor, mechanical drive, and brake caliper settings.	Rectify issues with the yaw motor, mechanical drive, and brake caliper settings.
541	GKV-19	Nacelle side emergency switch missing.	Install a new emergency switch.
542	GKV-19	Safety rope on top side with open wire condition.	Apply 3M tape to secure the wire.
543	GKV-19	Nacelle aviation lamp not working.	Replace the non-working aviation lamp.
544	GKV-19	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers to all WTGs.
545	GKV-19	Kaizen needed for cable loop section in nacelle and tower section drum area.	Apply rubber mats to prevent cables from touching the platform.
546	GKV-20	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during grid failure	Need to replace malfunctioning circuit breaker
547	GKV-20	Control cables in tower sections T1 and T2 found loose.	Apply cable ties and secure the cables properly.
548	GKV-20	Bottom base bolt caps missing (10) and bolts corroded.	Apply new caps and treat corroded bolts with paint or grease.
549	GKV-20	Panel cable laying not properly arranged in the control panel.	Organize cables properly using cable ties in the panel.
550	GKV-20	Cable clamp in loop section found loose.	Secure the cable clamp properly.
551	GKV-20	Tower light not glowing.	Provide and install 3 tower lights, 1 nacelle light, and 1 bottom light for the location.
552	GKV-20	Cable loop area not maintained, cables not in proper loop.	Reorganize cables in the loop section using cable ties and O-rings.
553	GKV-20	Hub side protection cover missing.	Provide and install the protection cover.
554	GKV-20	Excess grease found in the hub area.	Clean the excess grease properly.
555	GKV-20	Generator DE & NDE side grease not available.	Apply grease immediately to the generator's DE & NDE sides.
556	GKV-20	Rotor main bearing grease not available.	Apply grease to the rotor main bearing on priority
557	GKV-20	Generator carbon brushes worn down to 20%.	Replace 12 power brushes and 1 earthing brush during PM.
558	GKV-20	Safety rope top side has open wire condition.	Apply 3M tape to secure the wire.
559	GKV-20	Nacelle aviation lamp not working.	Replace the non-working aviation lamp with a new one.
560	GKV-20	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
561	GKV-20	Kaizen required for cable loop section in nacelle and tower drum areas.	Apply rubber mats to prevent cables from touching the platform.
562	GKV-18	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail (manual start).	Replace the malfunctioning circuit breaker immediately. High priority, material needed.
563	GKV-18	Two large trees found outside WTG area.	Remove the trees to ensure safety and prevent any potential damage to equipment.
564	GKV-18	Bottom base bolts are rusty and bolt caps are missing.	Apply zinc spray to prevent further corrosion and replace 10 missing bolt caps.
565	GKV-18	Tower cell joint rusted areas, 20% bolt torque needed.	Paint the rusted areas and perform torquing of all tower bolts.

566	GKV-18	T2 section control cables found loose.	Secure loose cables in T2 section using cable clamps or cable ties.
567	GKV-18	Tower light not glowing.	Replace 2 tower lights and 1 nacelle light at the location.
568	GKV-18	Cable loop area not properly maintained, cables not in correct loop.	Organize the cables in the loop section and secure them using cable ties and O-rings.
569	GKV-18	Gearbox offline filter motor hose pipe connector leakage oil.	Stop the oil leakages by either repairing the hose or replacing it. Material needed.
570	GKV-18	Nacelle pitch pump hose pipe found leakage oil.	Stop the oil leakages by either repairing the hose or replacing it. Material needed.
571	GKV-18	Generator DE & NDE side grease not available.	Apply grease urgently to Generator DE & NDE sides.
572	GKV-18	Generator power cable gland found open.	Properly connect and close the cable gland to avoid electrical issues.
573	GKV-18	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
574	GKV-18	Safety rope top side has open wire condition.	Apply 3M tape to secure the wire.
575	GKV-18	Nacelle aviation lamp not working.	Replace the non-working aviation lamp with a new one.
576	GKV-18	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide First Aid boxes and fire extinguishers for all WTGs.
577	GKV-18	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to prevent cables from touching the platform and to improve safety.
578	GKV-32	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail (manual start).	Replace the circuit breaker immediately. High priority, material needed.
579	GKV-32	Bottom control panel cable routing not optimal.	Re-route the cables properly in the control panel.
580	GKV-32	WTG bottom side main SCADA display not available.	Provide material to replace the SCADA display for the bottom side of the WTG.
581	GKV-32	Bottom base bolts are rusty and bolt caps missing.	Apply zinc spray to rusty bolts and provide 5 missing bolt caps.
582	GKV-32	Bottom power cable gland found in an open condition.	Close the cable gland properly, ensure it's secure.
583	GKV-32	Bottom IGBT panel's IGBT support cover missing.	Provide 3 IGBT support covers and replace them.
584	GKV-32	Tower light not glowing.	Replace 4 tower lights and 1 nacelle light at the location.
585	GKV-32	Cable loop area not properly maintained, cables not in proper loop.	Reorganize cables in the loop section and secure them with cable ties and O-rings.
586	GKV-32	Nacelle pitch pump hose pipe found leakage oil.	Replace the leakage hose to stop the oil leakage
587	GKV-32	Generator DE & NDE side grease not available.	Apply grease urgently to the Generator DE & NDE sides.
588	GKV-32	Generator power cable gland found open.	Close the power cable gland properly and ensure it is securely connected.
589	GKV-32	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush

590	GKV-32	Safety rope top side has open wire condition.	Apply 3M tape to secure the wire and prevent further damage.
591	GKV-32	Nacelle aviation lamp not working.	Replace the non-working aviation lamp with a new one.
592	GKV-32	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide First Aid boxes and fire extinguishers for all WTGs.
593	GKV-32	Kaizen needed for cable loop section in nacelle and tower drum area.	Apply rubber mats to the cable loop section to prevent cables from touching the platform.
594	GKV-32	Filter unit oil collection cover missing and filters need changing.	Replace the missing cover and change both filters during every PM cycle.
595	GKV-15	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail (manual start).	Replace the circuit breaker immediately. High priority, material needed.
596	GKV-15	Control cables in tower section T1 and T2 found loose.	Secure cables with cable ties and ensure proper routing.
597	GKV-15	Bottom base bolt caps missing (4) and bolts found corroded.	Apply zinc spray to corroded bolts and provide missing bolt caps (4).
598	GKV-15	Control panel cable routing not optimal.	Route cables properly and secure with cable ties.
599	GKV-15	Bottom entry door earth strip found damaged.	Replace the earth strip with a new one.
600	GKV-15	Tower light not glowing.	Replace 7 tower lights and 1 nacelle light for the location.
601	GKV-15	Cable loop area not properly maintained, cables not in proper loop.	Reorganize cables in the loop section using cable ties and O-rings.
602	GKV-15	Wind vane and anemometer cables on the nacelle top side found loose.	Secure cables with cable ties and ensure proper routing.
603	GKV-15	Hub lock not working due to missing pin lock.	Provide new pin lock and ensure the hub lock is functional.
604	GKV-15	Generator DE & NDE side grease not available.	Apply grease urgently to DE & NDE sides of the generator.
605	GKV-15	Rotor main bearing grease not available.	Apply grease urgently to the main rotor bearing.
606	GKV-15	Generator carbon brushes at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
607	GKV-15	Rescue kit missing in nacelle area.	Provide and install rescue kit in the nacelle area.
608	GKV-15	Safety rope top side has open wire condition.	Apply 3M tape to secure the exposed wire.
609	GKV-15	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
610	GKV-15	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide First Aid boxes and fire extinguishers in all WTGs.
611	GKV-15	Kaizen needed for cable loop section in nacelle and tower drum area.	Install rubber mats to protect cables from platform contact.
612	GKV-39	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail.	Apply proper cable ties and ensure cables are properly routed and secured in the panel.
613	GKV-39	Tower joint outside found with high rust and paint damage in all sections.	Clean and treat rust; repaint the affected sections of the tower joint.
614	GKV-39	Control panel cable routing not properly laid.	Use cable ties to properly route cables and secure them in the cable tray.

615	GKV-39	Bottom Control Panel power supply UU103 mounting not done.	Mount the power supply UU103 securely.
616	GKV-39	Power cables not properly connected in the bottom section; losses found.	Secure cables properly in the tray, ensuring proper loop configuration.
617	GKV-39	Tower light not glowing.	Replace/repair the tower lights. Apply grease to rotating parts, change DE & NDE bearings.
618	GKV-39	Cable loop area not maintained. Some cables not properly looped.	Set cables properly in the loop section and use cable ties to secure them.
619	GKV-39	Generator DE & NDE side grease not available. Sound coming from both sides.	Apply grease urgently to the DE & NDE sides. · If Sound still persist the TUVR shall recommends for Vibration Testing of bearing to know' s the trends of frequency level and take CAPA accordingly.
620	GKV-39	Main bearing grease not available in nacelle area.	Apply fresh grease to the main bearing immediately.
621	GKV-39	Pitch pump hose in nacelle found leakage oil.	Replace the leakage hose and refill oil as per SOP.
622	GKV-39	Gearbox offline motor hose connector oil leakages found.	Replacer the leakage hose and fill or change oil as per SOP.
623	GKV-39	Generator carbon brush wear at 20%.	Replace 12 phase carbon brushes and 1 earthing brush
624	GKV-39	Gearbox oil level indicator in the fill range area.	Replace oil level indicator or refill the gearbox oil to the correct level.
625	GKV-39	Safety rope top side exposed wire condition.	Apply 3M tape to secure exposed wires on safety ropes.
626	GKV-39	Nacelle aviation lamp not working.	Replace the aviation lamp in the nacelle.
627	GKV-39	First aid box and fire extinguisher not available in all WTGs.	Provide first aid boxes and fire extinguishers for all WTGs.
628	GKV-39	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to prevent cables from touching the platform and improve cable management.
629	GKV-13	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction during small grid fail.	Replace circuit breaker in FG-008. Urgent high-priority material needed.
630	GKV-13	Control panel cable routing not proper at bottom section.	Resecure cables using proper cable ties. Ensure proper routing and secure connections.
631	GKV-13	Power cable not connected properly in clamp at the bottom section.	Use cable ties to secure and properly connect power cables to the clamps.
632	GKV-13	Wind vane and anemometer cable on the nacelle top side found loose.	Secure cables with cable ties to prevent loose connections.
633	GKV-13	Tower light not glowing.	Replace defective tower light and ensure nacelle light is functional.
634	GKV-13	Cable loop area not maintained with some cables not in proper loops.	Properly loop cables and secure them with cable ties. Ensure cables are routed correctly.
635	GKV-13	Nacelle pitch pump hose pipe found leakage oil.	Stop oil leakages or replace the hose. Ensure proper sealing and oil management.
636	GKV-13	Generator DE & NDE side grease not available.	Apply grease urgently to the DE & NDE sides to ensure proper lubrication.

637	GKV-13	Nacelle main bearing grease not available.	Apply grease to the main bearing urgently for smooth operation.
638	GKV-13	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
639	GKV-13	Safety rope top side found with exposed wire.	Apply 3M tape to cover exposed wires for safety.
640	GKV-13	Nacelle aviation lamp not working.	Replace/repair the aviation lamp in the nacelle area.
641	GKV-13	First Aid Box and Fire Extinguisher not available in all WTGs.	Provide and install First Aid Boxes and Fire Extinguishers in all WTGs.
642	GKV-13	Kaizen improvement needed for cable loop sections in nacelle and tower drum areas.	Install rubber mats to prevent cables from rubbing against platforms and improve management.
643	GKV-13	Hub side blade sleeve ring grease not available.	Apply grease to all 3 blade sleeve rings urgently to ensure proper operation.
644	GKV-13	Gearbox mounting rubber supports found damaged on both sides.	Replace damaged rubber supports for the gearbox mounting.
645	GKV-13	Hub entry door FRP found damaged.	Replace the FRP door at the hub entry.
646	GKV-13	Hub side grease collection bottle missing (2 nos).	Replace 2 missing grease collection bottles for the hub.
647	GKV-13	Gearbox oil level found within filling range.	Top-up oil and ensure oil level is maintained as per SOP to avoid operational issues.
648	GKV-12	Power Panel FG-008 main contactor circuit breaker malfunction after small grid fail.	Replace malfunctioning circuit breaker in FG-008 (urgent high-priority material required).
649	GKV-12	Tower entry door stopper found rusty at bottom side.	Apply zinc spray to rusty areas of the entry door stopper.
650	GKV-12	IGBT panel side fan not working at bottom section.	Replace malfunctioning fan in IGBT panel.
651	GKV-12	Tower light found not glowing.	Replace 6 tower lights and 2 nacelle lights to restore proper illumination.
652	GKV-12	Power cable found loose at bottom side.	Properly secure loose cables using cable ties and ensure proper connections.
653	GKV-12	Cable loop area not maintained, cables not properly looped.	Set proper cable routing in the loop section using cable ties to secure and organize cables.
654	GKV-12	Generator DE & NDE side grease not available, excessive sound from both sides.	Apply grease urgently to all rotating parts on both DE & NDE sides. If Sound still persist the TUVR shall recommends for Vibration Testing of bearing to know' s the trends of frequency level and take CAPA accordingly.
655	GKV-12	Nacelle oil cooling hose pipe found leakage oil.	Replace oil cooling hose and address oil leakages issue immediately.
656	GKV-12	Nacelle panel side RTD Module missing.	Install new RTD module in the nacelle panel.
657	GKV-12	Aviation lamp found not working.	Replace the aviation lamp to restore proper function.
658	GKV-12	Pitch pump nacelle hose pipe found leakage oil.	Replace the leakage hose pipe and stop oil leakages in the nacelle area.
659	GKV-12	Gearbox offline motor hose connector oil leakage	Replace the faulty hose connector to stop oil leakage

660	GKV-12	Generator slip ring earth brush found with burn marks.	Remove the burn mark/spot on the slipring contacts through the sandpaper & electrical contact cleaning spray as corrective action.
661	GKV-12	Generator carbon brushes at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
662	GKV-12	Yaw system brake caliper and plate setting causing disturbing sound.	Torque all bolts, clean the yaw plate, and apply grease to the brake caliper.
663	GKV-12	Safety rope top side with exposed wire.	Apply 3M tape to cover the exposed wire on the safety rope.
664	GKV-12	Nacelle gearbox mounting rubber support corroded and rubber damaged.	Replace corroded and damaged rubber supports in the nacelle gearbox.
665	GKV-12	First aid box and fire extinguisher not available in all WTGs.	Provide and install first aid boxes and fire extinguishers in all WTGs.
666	GKV-12	Kaizen needed for cable loop section in the nacelle and tower section.	Install rubber mats to protect cables in the nacelle and tower section.
667	GKV-14	Power Panel FG-008 main contactor circuit breaker malfunction during grid fail.	Replace the malfunctioning circuit breaker (FG-008). Material high priority.
668	GKV-14	Control cable in tower section (T1 & T2) found loose.	Apply cable ties and secure cables properly in T1 and T2 sections.
669	GKV-14	Earth pit found in damaged condition.	Repair the earth pit to restore proper grounding.
670	GKV-14	Cable routing in control panel not properly laid.	Use cable ties to organize and secure cables properly within the control panel.
671	GKV-14	Nacelle Gearbox Oil Level found below proper level.	Top-up gearbox oil to maintain proper oil level as per standard operation procedures (SOP).
672	GKV-14	Tower light found not glowing.	Replace 4 tower lights, 1 nacelle light, and 1 bottom light in the respective locations.
673	GKV-14	Cable loop section not properly maintained.	Reorganize cables in loop section, use cable ties to secure cables properly.
674	GKV-14	Pitch pump hose pipe found leakage oil in the nacelle area.	Replace leakage hose in the pitch pump system to stop oil leakage.
675	GKV-14	DE & NDE side grease not available.	Apply grease to the DE & NDE sides of the generator on on priority
676	GKV-14	Rotor main bearing grease found not available.	Apply grease to the rotor main bearing on an urgent basis to avoid wear and damage.
677	GKV-14	Generator carbon brushes at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
678	GKV-14	Safety rope top side found with exposed wire.	Apply 3M tape to cover and insulate the exposed wire in the safety rope.
679	GKV-14	Nacelle aviation lamp not working.	Replace the aviation lamp in the nacelle area to restore functionality.
680	GKV-14	First Aid Box and Fire Extinguisher not available in all WTGs.	Install first aid boxes and fire extinguishers in all WTGs to comply with safety standards.
681	GKV-14	Kaizen required for the cable loop section in the nacelle and tower area.	Apply rubber mat to protect cables in the loop section and tower area from platform contact.

682	GKV-28	Power Panel FG-008 main contactor circuit breaker malfunction after grid fail.	Replace the malfunctioning circuit breaker in FG-008 Power Panel (high-priority).
683	GKV-28	Tower entry door stopper found fully rusty.	Apply zinc spray to treat the rusty areas and prevent further corrosion.
684	GKV-28	Earth pit found in damaged condition.	Repair the earth pit to restore proper grounding functionality.
685	GKV-28	T2 cell paint damage and rust on the outside.	Apply proper paint to T2 cell exterior to prevent further rust and damage.
686	GKV-28	T2 cell fully rusty on the outside.	Apply proper paint to T2 cell exterior to restore and protect against further rust.
687	GKV-28	Tower light found not glowing.	Replace 2 tower lights and 1 bottom light in the respective locations.
688	GKV-28	Cable loop section not properly maintained.	Reorganize cables in the loop section using cable ties to secure cables properly.
689	GKV-28	Pitch pump hose pipe found leakage oil.	Replace the leakage pitch pump hose to stop oil leakage
690	GKV-28	DE & NDE side grease not available.	Apply grease to DE & NDE sides urgently for proper lubrication and maintenance.
691	GKV-28	Rotor main bearing grease not available.	Apply grease to the main rotor bearing urgently to prevent damage and wear.
692	GKV-28	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
693	GKV-28	Safety rope top side wire exposed.	Apply 3M tape to cover and insulate the exposed wire.
694	GKV-28	Nacelle aviation lamp found not working.	Replace the nacelle aviation lamp to restore full functionality.
695	GKV-28	First Aid Box and Fire Extinguisher not available in all WTGs.	Install first aid boxes and fire extinguishers in all WTGs to comply with safety standards.
696	GKV-28	Kaizen required for cable loop section in nacelle and tower drum area.	Apply rubber mats to protect cables in the loop section from platform contact.
697	GKV-28	Nacelle winch side rubber support found missing.	Replace the missing rubber support in the nacelle winch area.
698	GKV-28	Rotor entry door found in damaged condition.	Replace the damaged rotor entry door.
699	GKV-28	Hub side grease found in excess, dirty surface found.	Clean the surface and maintain proper grease levels to prevent contamination.
700	GKV-28	Nacelle gearbox mounting rubber support found damaged on both sides.	Replace the damaged mounting rubber support in the nacelle gearbox.
701	GKV-21	Power Panel FG-008 main contactor circuit breaker malfunction after grid fail.	Replace malfunctioning circuit breaker in FG-008 Power Panel (high-priority).
702	GKV-21	Tower entry door stopper found missing.	Install a new door stopper to secure tower entry door.
703	GKV-21	Bottom side power cable not properly connected in the clamp.	Use cable ties to secure power cables and properly connect them to the clamp.
704	GKV-21	Spider webs found in bottom section and T1 cell.	Clear all spider webs in the bottom section and T1 cell to ensure clean and safe operations.

705	GKV-21	T2 and T3 platform found with open holes and missing rubber covers.	Install 6 rubber covers to close the open holes on T2 and T3 platforms.
706	GKV-21	Tower light not glowing.	Replace 4 tower lights and 1 nacelle light at the location.
707	GKV-21	Cable loop section not properly maintained.	Reorganize cables in the loop section using cable ties and set cables properly.
708	GKV-21	Nacelle pitch pump hose found leakage oil.	Replace the leakage hose and fix the oil leakages.
709	GKV-21	Generator DE & NDE side grease not available.	Apply grease on the DE & NDE sides urgently to ensure proper lubrication of rotating parts.
710	GKV-21	Loose cable in generator gland area.	Reconnect the cable properly in the gland area to prevent electrical issues.
711	GKV-21	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
712	GKV-21	Safety rope top side wire exposed.	Apply 3M tape to cover and insulate the exposed wire.
713	GKV-21	Nacelle aviation lamp not working.	Replace the nacelle aviation lamp with a new one.
714	GKV-21	First Aid Box and Fire Extinguisher not available in all WTGs.	Install first aid boxes and fire extinguishers in all WTGs to meet safety requirements.
715	GKV-21	Kaizen required for cable loop section in nacelle and tower section drum area.	Apply rubber mats in the cable loop section to prevent cable damage from contact with the platform.
716	GKV-21	Nacelle gearbox mounting rubber support found damaged on both sides.	Replace the damaged rubber supports in the nacelle gearbox.
717	GKV-11	Power Panel FG-008 main contactor circuit breaker malfunction after small grid failure.	Replace the malfunctioning circuit breaker (high-priority material needed).
718	GKV-11	WTG tower exterior customer name not displayed correctly.	Reposition or fix the name display on the tower to ensure proper visibility.
719	GKV-11	Control panel cable layout not done properly.	Apply proper cable ties and set cables neatly within the control panel.
720	GKV-11	IGBT panel internal fan (3 units) not functioning.	Replace the 3 faulty internal fans in the IGBT panel.
721	GKV-11	Nacelle rescue kit missing.	Install a new rescue kit in the nacelle.
722	GKV-11	Tower light not functioning.	Replace 3 tower lights and 2 nacelle lights at the location.
723	GKV-11	Cable loop area not properly maintained, with some cables not in proper loops.	Reorganize cables in the loop section using cable ties and properly secure cables.
724	GKV-11	Generator DE & NDE side grease not available, and high noise levels observed.	Apply grease urgently to all rotating parts and replace DE & NDE bearings if applicable. If Sound still persist the TUVR shall recommends for Vibration Testing of bearing to know' s the trends of frequency level and take CAPA accordingly.
725	GKV-11	Nacelle main bearing grease not available.	Fill grease into the main bearing on priority
726	GKV-11	Pitch pump nacelle hose found with oil leakage	Replace the hose to stop oil leakages and ensure proper functioning.

727	GKV-11	Gearbox offline motor hose connector oil leakages found.	Replace the faulty hose connector to stop oil leakages in the gearbox.
728	GKV-11	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
729	GKV-11	Gearbox oil level indicator showing low oil level.	Top-up the gearbox oil immediately to maintain correct levels.
730	GKV-11	Safety rope top side with exposed wire.	Apply 3M tape to cover and insulate the exposed wire.
731	GKV-11	Nacelle contactor (A-26-30-10) malfunctioning.	Replace the malfunctioning contactor (A-26-30-10) in the nacelle.
732	GKV-11	First Aid Box and Fire Extinguisher missing in all WTGs.	Install first aid boxes and fire extinguishers in all WTGs to meet safety compliance.
733	GKV-11	Kaizen needed for cable loop sections in nacelle and tower drum areas.	Apply rubber mats in the cable loops to prevent cables from touching metal surfaces.
734	GKV-23	Bottom side Power Panel FG-008 main contactor circuit breaker malfunction after small grid failure.	Replace malfunctioning circuit breaker (high-priority material needed).
735	GKV-23	WTG Tower exterior customer name not displayed properly.	Correctly display customer name on the exterior of the tower.
736	GKV-23	Control panel cable layout not organized properly.	Apply proper cable ties and organize cables neatly within the control panel.
737	GKV-23	Bottom side tower entry door stopper missing, and staircase rusty.	Install new stopper and apply zinc spray to the rusty area of the staircase.
738	GKV-23	Bottom side power panel side cover found open.	Close side cover using appropriate hardware.
739	GKV-23	Tower light not functioning.	Replace 2 tower lights at the location.
740	GKV-23	Power cable in the bottom section loose.	Secure cable using cable ties.
741	GKV-23	T1 and T2 section control cables found loose.	Apply cable ties to secure the cables.
742	GKV-23	Cable loop area not properly organized; cables not in correct loop.	Reorganize cables in the loop section using cable ties and ensure proper placement.
743	GKV-23	Cable clamp not available in cable loop area.	Install cable clamps or cable ties to secure the cables properly.
744	GKV-23	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts of the generator.
745	GKV-23	Nacelle coupling side fire cover damaged, and brake coil for coupling not working.	Replace fire cover and install new brake coil for the coupling brake system.
746	GKV-23	Blade sleeve ring grease not available on all blades.	Apply grease to all 3 blades at the sleeve ring area.
747	GKV-23	Blade flap cover found not in position, causing potential rainwater ingress.	Reposition blade flap cover to prevent rainwater from entering.
748	GKV-23	Aviation lamp not functioning.	Replace the aviation lamp with a new one.
749	GKV-23	Pitch pump nacelle hose found with oil leakage	Replace the hose and stop the oil leakage
750	GKV-23	Gearbox offline motor hose connector leakage oil.	Replace faulty hose connector in the gearbox.
751	GKV-23	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush

752	GKV-23	Yaw system brake caliper and plate setting disturbed, causing high noise.	Torque all bolts, clean yaw plate, and apply grease to resolve noise issue.
753	GKV-23	Safety rope top side wire found exposed.	Apply 3M tape to cover the exposed wire and prevent any potential hazards.
754	GKV-23	Nacelle gearbox mounting rubber support corroded and damaged on both sides.	Replace damaged rubber supports on both sides of the nacelle gearbox.
755	GKV-23	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Boxes and Fire Extinguishers in all WTGs to meet safety requirements.
756	GKV-23	Kaizen needed for cable loop section in nacelle and tower drum areas.	Apply rubber mat to the cable loop areas to prevent cables from touching metal platforms.
757	GKV-50	Bottom side Power Panel FG-008 Main contactor circuit breaker malfunction after small grid failure.	Replace malfunctioning circuit breaker (high-priority material needed).
758	GKV-50	Bottom control panel cable routing not organized properly.	Reorganize cable routing in the control panel to ensure proper cable management.
759	GKV-50	Power cable not properly connected in the clamp at the bottom.	Apply cable ties and securely connect cables to the clamp.
760	GKV-50	Tower light not glowing.	Replace 4 tower lights and 1 nacelle light at the location.
761	GKV-50	Cable loop area not organized; cables not in proper loops.	Reorganize cables in the loop section using cable ties and O-rings.
762	GKV-50	Nacelle pitch pump hose pipe found with oil leakage	Replace the leakage hose pipe and stop oil leakages in the nacelle pitch pump.
763	GKV-50	Generator DE & NDE side grease not available.	Apply grease urgently to the DE & NDE side rotating parts.
764	GKV-50	Nacelle main bearing grease not available.	Apply grease urgently to the nacelle main bearing.
765	GKV-50	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
766	GKV-50	Safety rope top side wire exposed.	Apply 3M tape to cover the exposed wire in the safety rope.
767	GKV-50	Nacelle aviation lamp not functioning.	Replace the faulty aviation lamp with a new one.
768	GKV-50	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Boxes and Fire Extinguishers in all WTGs to meet safety standards.
769	GKV-50	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats to the cable loop sections to prevent cables from touching the metal platform.
770	GKV-50	Nacelle panel contactor (A26-30-10) malfunctioning and causing noise.	Replace malfunctioning contactor (material needed).
771	GKV-22	Bottom power panel Main Contactor (FG008) found malfunctioning after grid failure.	Replace the malfunctioning contactor (high-priority).
772	GKV-22	Bottom control panel cable routing disorganized.	Re-route cables and organize them as per proper guidelines.
773	GKV-22	Bottom power cable found loose.	Secure loose power cable using cable ties.
774	GKV-22	Tower light not working.	Replace 4 tower lights, 1 bottom light, and 1 nacelle light.

775	GKV-22	Nacelle panel FM012 found not working.	Replace the non-functioning nacelle panel FM012.
776	GKV-22	Power cable in loop area loose in cable clamp.	Secure cable in the loop area with cable ties.
777	GKV-22	Cable clamp not connected properly.	Re-connect cable clamp properly or replace the cable clamp if necessary.
778	GKV-22	Gearbox oil level found below the required filling range.	Top-up the gearbox oil as per SOP.
779	GKV-22	Nacelle cable shock area with minor damage.	Apply 3M tape to cover the minor damage in the cable shock area.
780	GKV-22	Gearbox oil filter unit found with minor oil leakage	Stop the oil leakages and replace the oil filter unit.
781	GKV-22	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
782	GKV-22	Top side safety rope wire found exposed.	Apply 3M tape to cover the exposed wire in the safety rope to prevent injury.
783	GKV-22	Generator filter unit found dirty.	Clean the filter unit in the generator.
784	GKV-22	Cooling section filters found dirty and dusty.	Replace the cooling section filters due to excessive dust accumulation.
785	GKV-22	Nacelle top-side aviation lamp not working.	Replace the aviation lamp in the nacelle.
786	GKV-22	Generator NDE & DE side greasing required and abnormal sound from NDE side.	Apply grease to all rotating parts and rectify the sound from the NDE bearing.
787	GKV-22	Gearbox online pump motor hose pipe connector with oil leakage	Stop the oil leakages and replace the faulty hose pipe connector.
788	GKV-22	Gearbox offline filter hose pipe with minor oil leakage	Stop the oil leakages and replace the faulty hose pipe.
789	GKV-22	Generator brake system found with a bypassed brake.	Replace the bypassed brake and apply new brake components.
790	GKV-22	Nacelle winch motor not working.	Replace the winch motor.
791	GKV-22	Blade 02 found with minor creaks in the L1 layer.	Repair the creaks in the L1 layer of the blade on on priority
792	GKV-22	Kaizen required for cable loop section in the tower.	Apply rubber mats to prevent cables from touching the platform in all WTG's.
793	GKV-22	Fire extinguisher and First Aid Kit not available in all WTGs.	Install Fire Extinguishers and First Aid Kits in all WTGs to ensure compliance with safety standards.
794	GKV-28.2	Bottom side Power Panel Main Contactor (FG-008) malfunctioning after grid failure.	Replace the malfunctioning contactor (high-priority).
795	GKV-28.2	Bottom control panel cable routing not properly organized.	Re-route cables properly using cable ties.
796	GKV-28.2	Power panel side cable gland not connected properly.	Secure the cable gland and close open holes in the power panel.
797	GKV-28.2	Tower light found not working.	Replace 4 tower lights and 1 nacelle light.
798	GKV-28.2	Tower entry door earthing not properly connected and found broken.	Replace the broken door earthing connection.
799	GKV-28.2	T1 and T2 cell tower control cables found loose.	Apply cable ties to secure the control cables.
800	GKV-28.2	Bottom side power cable found loose.	Secure the power cable properly using cable ties.

801	GKV-28.2	Cable loop area not properly maintained, with cables out of place.	Reorganize cables in the loop section and use cable ties to secure them.
802	GKV-28.2	Cable loop section found with loose cable clamps and no cable clamp available.	Apply new cable clamps and cable ties to secure cables properly.
803	GKV-28.2	Tower joint bolts require initial torque application.	Apply 10% initial torque to all section joint bolts and nacelle rotor blade area.
804	GKV-28.2	Generator DE & NDE side grease not available, and abnormal sound levels on both sides.	Apply grease urgently to all rotating parts to reduce sound and ensure smooth operation. If sound still persists the TUVR shall recommend for Vibration Testing of bearing to know the trends of frequency level and take CAPA accordingly.
805	GKV-28.2	Nacelle rotor main bearing grease found empty.	Apply grease urgently to the rotor main bearing and other rotating parts.
806	GKV-28.2	Nacelle generator coupling fire cover found missing.	Install new fire cover on the nacelle generator coupling.
807	GKV-28.2	Aviation lamp found not working.	Replace the aviation lamp.
808	GKV-28.2	Pitch pump nacelle area hose pipe found with oil leakage	Stop oil leakages and replace the damaged hose pipe.
809	GKV-28.2	Gearbox offline motor hose connector found leakage oil.	Replace the faulty hose connector and stop oil leakage
810	GKV-28.2	Gearbox oil level found within the filling range.	Top-up gearbox oil as per the standard operating procedure (SOP).
811	GKV-28.2	Generator carbon brushes found worn down to 20%.	Replace 12 power brushes and 1 earthing brush during scheduled maintenance (PM).
812	GKV-28.2	Rotor lock system pin locking mechanism found missing.	Replace the missing locking pin for the rotor lock system.
813	GKV-28.2	Safety rope top side found with exposed wire.	Apply 3M tape to secure the exposed wire and avoid injury.
814	GKV-28.2	Nacelle gearbox mounting rubber support found corroded with minor damage.	Replace the corroded rubber support with new material.
815	GKV-28.2	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Boxes and Fire Extinguishers in all WTGs to meet safety standards.
816	GKV-28.2	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats to prevent cables from touching the platform in all WTGs.
817	GKV-03	Bottom side Power Panel Main Contactor (FG-008) malfunctioning after grid failure.	Replace the malfunctioning contactor (high-priority).
818	GKV-03	Bottom Control Panel cable routing not properly organized.	Re-route cables properly using cable ties.
819	GKV-03	Tower outside customer name and location not displayed properly.	Add customer and location names on the tower exterior.
820	GKV-03	Tower outside corroded with peeling paint.	Repaint the corroded and peeling areas on the tower.
821	GKV-03	Tower light found not glowing.	Replace 7 tower lights and 1 nacelle light.
822	GKV-03	Tower entry door rubber support missing.	Replace the missing rubber support on the tower entry door.

823	GKV-03	Bottom side power cable found loose.	Secure the power cable properly using cable ties.
824	GKV-03	Cable loop area not properly maintained, with some cables not in the loop.	Reorganize cables in the loop section and use cable ties to secure them properly.
825	GKV-03	Yaw System brake caliper (HYB/5301) found bypassed, with a noise during yawing.	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
826	GKV-03	Tower joint bolts require initial torque application.	Apply 10% initial torque to all section joint bolts and nacelle rotor blade area.
827	GKV-03	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts of the generator.
828	GKV-03	Nacelle rotor main bearing grease found empty.	Apply grease urgently to the rotor main bearing and other rotating parts.
829	GKV-03	Nacelle side gearbox oil pump motor making noise due to internal coupling spider damage.	Open the motor and check the coupling; replace the damaged spider or coupling.
830	GKV-03	Aviation lamp found not working.	Replace the aviation lamp.
831	GKV-03	Pitch pump nacelle hose pipe found leakage oil.	Stop oil leakages and replace the damaged hose pipe.
832	GKV-03	Gearbox offline motor hose connector found leakage oil.	Replace the faulty hose connector and stop oil leakage
833	GKV-03	Gearbox oil level found within the filling range.	Top-up gearbox oil as per SOP.
834	GKV-03	Generator carbon brushes found worn down to 20%.	Replace 12 power brushes and 1 earthing brush during scheduled maintenance (PM).
835	GKV-03	Nacelle top cable shocks side found with upper layer cable damage.	Apply 3M tape or repair cables on on priority
836	GKV-03	Safety rope top side found with exposed wire.	Apply 3M tape to secure the exposed wire and avoid injury.
837	GKV-03	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Boxes and Fire Extinguishers in all WTGs to meet safety standards.
838	GKV-03	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats to prevent cables from touching the platform in all WTGs.
839	GKV-02	Bottom side Power Panel Main Contactor (FG-008) malfunctioning after grid failure.	Replace the malfunctioning contactor (high-priority).
840	GKV-02	Bottom Control Panel cable routing not properly organized.	Re-route cables properly using cable ties.
841	GKV-02	Tower light found not glowing.	Replace 7 tower lights and 1 nacelle light.
842	GKV-02	Cable loop area cable clamp missing or loose.	Reconnect cables properly in the clamp or use cable ties to secure them.
843	GKV-02	Tower T1 and T2 control cables found loose.	Secure loose cables using cable ties.
844	GKV-02	Cable loop area not properly maintained (some cables not in loop).	Reorganize cables in the loop section and use cable ties to secure them.
845	GKV-02	Generator power cable gland found loose.	Reconnect the power cable gland properly.

846	GKV-02	Tower joint bolts need initial torque, with peeling paint and corrosion found.	Apply 10% initial torque to tower joint bolts and nacelle rotor blade area. Also, apply paint to the corroded parts.
847	GKV-02	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts.
848	GKV-02	Nacelle rotor main bearing grease found empty.	Apply grease urgently to nacelle rotor main bearings and other rotating parts.
849	GKV-02	Nacelle side gearbox oil pump motor making noise due to internal coupling spider damage.	Open the motor to check the coupling and replace the damaged spider or coupling. Need materials.
850	GKV-02	Aviation lamp found not working.	Replace the aviation lamp.
851	GKV-02	Pitch pump nacelle hose pipe found leakage oil.	Stop oil leakages and replace the hose pipe.
852	GKV-02	Gearbox offline motor hose connector found leakage oil.	Replace the faulty hose connector and stop oil leakage
853	GKV-02	Generator carbon brushes found worn down to 20%.	Replace 12 power brushes and 1 earthing brush during scheduled maintenance (PM).
854	GKV-02	Safety rope top side found with exposed wire.	Apply 3M tape to secure the exposed wire and avoid injury.
855	GKV-02	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Boxes and Fire Extinguishers in all WTGs to meet safety standards.
856	GKV-02	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats to prevent cables from touching the platform in all WTGs.
857	GKV-04	Bottom side Power Panel Main Contactor (FG-008) malfunctioning after grid failure.	Replace the malfunctioning contactor (high-priority).
858	GKV-04	Bottom Control Panel cable routing not properly organized.	Re-route cables properly using cable ties.
859	GKV-04	Bottom panel side main switch (FG-016) found damaged.	Replace the damaged switch.
860	GKV-04	Bottom control panel timer found damaged.	Replace the damaged timer.
861	GKV-04	Bottom power cable found not routed properly.	Use cable ties to properly route the power cables.
862	GKV-04	Tower light found not glowing.	Replace 5 tower lights and 1 nacelle light.
863	GKV-04	Tower T1 and T2 control cables found loose.	Secure loose cables using cable ties.
864	GKV-04	Cable loop area not maintained, some cables not in proper loop.	Reorganize cables in the loop section and use cable ties to secure them.
865	GKV-04	Tower joint bolts need initial torque, with peeling paint and minor corrosion found.	Apply 10% initial torque to tower joint bolts and nacelle rotor blade area. Apply paint.
866	GKV-04	Yaw system brake caliper (HYB/5451) found with high quantity oil leakage	Stop oil leakages and inspect brake caliper.
867	GKV-04	Nacelle side gearbox oil level found low.	Top-up oil urgently as per SOP for gearbox.
868	GKV-04	Aviation lamp found not working.	Replace the aviation lamp.
869	GKV-04	Pitch pump nacelle hose pipe found leakage oil.	Stop oil leakages and replace the hose pipe.
870	GKV-04	Gearbox offline motor hose connector found leakage oil.	Replace the faulty hose connector and stop oil leakage

871	GKV-04	Generator carbon brushes found worn down to 20%.	Replace 12 power brushes and 1 earthing brush during scheduled maintenance (PM).
872	GKV-04	Gearbox online filter unit oil leakages found; need to change both online and offline filters.	Replace online and offline filters and stop oil leakage
873	GKV-04	Safety rope top side found with exposed wire.	Apply 3M tape to secure the exposed wire and prevent safety hazards.
874	GKV-04	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Kits and Fire Extinguishers in all WTGs to meet safety standards.
875	GKV-04	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats to prevent cables from touching the platform in all WTGs.
876	GKV-05	Bottom side control panel cable routing not properly set.	Re-route cables properly and secure them using glands.
877	GKV-05	Tower entry door rubber cover (rain stopper) missing.	Replace the rubber cover and install a rain stopper.
878	GKV-05	Bottom side door stopper not working due to misalignment of staircase.	Align the staircase properly to restore functionality of the door stopper.
879	GKV-05	Tower light not glowing.	Replace 2 tower lights and 1 nacelle light in the specified locations.
880	GKV-05	Tower bolts need 20% re-torque on all sections (nacelle side, bottom side).	Perform torqueing of tower bolts in all sections and nacelle areas.
881	GKV-05	Generator coupling side fire blanket found damaged.	Replace the damaged fire blanket on the generator coupling.
882	GKV-05	Nacelle gearbox filter unit oil cover found damaged; filters need replacement.	Replace oil cover and online/offline filters. Implement annual filter replacement as per PM.
883	GKV-05	Rotor side hub entry door found damaged and not in use.	Repair and reinstall the rotor side hub entry door to ensure proper functionality.
884	GKV-05	Power cable loop section found with loose cable clamps and oily cables.	Secure cable clamps properly, apply cable ties, and clean oily cable surfaces.
885	GKV-05	Power cable in loop area not set properly with O-ring and cable ties.	Set O-rings properly and secure cables using cable ties in the loop area.
886	GKV-05	Nacelle area hose pipe hub slip ring found with oil leakage	Stop oil leakages by replacing the hose pipe material.
887	GKV-05	Gearbox offline motor oil leakages found in connector and base side.	Stop oil leakages and replace the faulty hose pipe or connector.
888	GKV-05	Nacelle hydraulic unit found with oil leakage	Stop oil leakages by checking and replacing faulty hose connectors.
889	GKV-05	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
890	GKV-05	Main bearing grease not available.	Apply grease to the main bearing on on priority
891	GKV-05	Generator DE & NDE side grease low, causing high noise.	Apply grease urgently to the DE & NDE bearings.If Sound still persist the TUVR shall recommends for Vibration Testing of bearing to know' s the trends of frequency level and take CAPA accordingly
892	GKV-05	Panel fan filter (Gen mesh filter) needs cleaning in all WTGs.	Clean all panel fan filters and replace them as necessary in all WTGs.

893	GKV-05	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Kits and Fire Extinguishers in all WTGs to meet safety standards.
894	GKV-05	Kaizen required for cable loop section in nacelle and tower sections.	Apply rubber mats in the cable loop sections to prevent cables from touching the platform.
895	GKV-06	Bottom side Power Panel FG-008 Main Contactor circuit breaker malfunctioning during small grid fail.	Replace contactor to avoid manual operation after grid faults. High priority material required.
896	GKV-06	Bottom Control Panel cable routing not properly set.	Properly route cables using cable ties to ensure safety and functionality.
897	GKV-06	Bottom power cable gland not properly connected.	Reconnect cable gland properly to ensure secure cable connections.
898	GKV-06	Tower outside T1 section paint peeling off and corrosion found.	Repaint tower or use zinc spray to prevent further corrosion (use drones for efficient coverage).
899	GKV-06	Loop section cable clamp bolt loose.	Tighten cable clamp bolts and secure with cable ties to prevent cable movement.
900	GKV-06	Tower light not glowing.	Replace 4 tower lights and 1 nacelle light as required.
901	GKV-06	Tower T1 and T2 control cables found loose.	Secure control cables using cable ties to prevent disconnection.
902	GKV-06	Cable loop area not properly maintained; some cables not in correct loop.	Correctly route cables and secure with cable ties and O-rings in the loop area.
903	GKV-06	All tower joint bolts require initial torque; some bolts have minor corrosion.	Apply torque (10% of all sections), and paint the joints to prevent further corrosion.
904	GKV-06	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts on both DE and NDE sides of the generator.
905	GKV-06	Rotor main bearing grease not available.	Grease rotor main bearing immediately to prevent damage from lack of lubrication.
906	GKV-06	Nacelle side top platform cable blue cover found loose.	Secure the cable cover properly to prevent damage or safety hazards.
907	GKV-06	Aviation lamp not working.	Replace the aviation lamp to ensure compliance with aviation safety regulations.
908	GKV-06	Pitch Pump nacelle area hose pipe found with oil leakage	Stop the oil leakages by replacing the faulty hose pipe material.
909	GKV-06	Gearbox offline motor hose connector leakage oil.	Replace the damaged hose connector and stop oil leakage.
910	GKV-06	Generator carbon brushes found to be at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
911	GKV-06	Gearbox mounting support rubber cover damaged internally.	Replace the damaged rubber cover on the gearbox mounting support.
912	GKV-06	Safety rope top side found with wire open condition.	Apply 3M tape to secure the wire and prevent exposure.
913	GKV-06	First Aid Box, Fire Extinguisher not available in all WTGs.	Install First Aid Kits and Fire Extinguishers in all WTGs to ensure safety compliance.
914	GKV-06	Kaizen needed for cable loop section in nacelle and tower sections.	Apply rubber mats to prevent cables from touching the platform and causing wear or safety issues.

915	GKV-07	Bottom power panel Main Contactor (FG008) not working after grid fail, causing manual operation in all WTGs.	Replace contactor urgently to restore automatic operation and avoid manual intervention.
916	GKV-07	Base bolt outside caps missing and 2 bolts hardware missing.	Apply bolt caps and cover; also apply rusty bolt paint or grease, and replace 2 bolts.
917	GKV-07	Bottom power cable found loose.	Secure power cable properly using cable ties to avoid disconnections.
918	GKV-07	Bottom side panel light not connected or positioned properly.	Reposition and connect panel light properly using cable ties to ensure functionality.
919	GKV-07	Tower entry door rubber cover missing.	Install a new rain stopper rubber cover to prevent water ingress.
920	GKV-07	Power cable in loop area found loose in cable clamp.	Tighten cable clamps and ensure cables are properly looped and secured using cable ties.
921	GKV-07	Cable clamp not connected properly.	Reconnect or replace the cable clamp to ensure a secure connection.
922	GKV-07	LT panel bottom side cable gland missing and cable sleeve found damaged.	Install cable gland and replace damaged cable sleeve to protect cables.
923	GKV-07	Tower joint bolts require 10% initial torque.	Perform re-torquing of tower joints as per specifications to ensure structural integrity.
924	GKV-07	Yaw system brake caliper (HYB/5251) unit found with minor leakage	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
925	GKV-07	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
926	GKV-07	Top side safety rope wire found in open condition.	Apply 3M tape to secure the wire and prevent safety hazards.
927	GKV-07	Generator filter unit found dirty.	Clean generator filter to maintain efficient operation.
928	GKV-07	Cooling section filters need cleaning or replacement due to dust buildup.	Replace filters to ensure optimal cooling efficiency.
929	GKV-07	Generator coupling fire blanket found missing.	Install new fire blanket to prevent fire hazards around the generator coupling.
930	GKV-07	Generator NDE & DE side greasing required; sound present from NDE side.	Apply grease to all rotating components and investigate and rectify sound from the NDE bearing.
931	GKV-07	Rotor main bearing grease not available.	Apply grease to rotor main bearing urgently to prevent damage.
932	GKV-07	Gearbox offline filter hose pipe with minor oil leakage	Stop oil leakages by repairing or replacing the leakage hose.
933	GKV-07	Blade outside grease leakages found in high quantities.	Fix grease leakages by replacing the collection bottle or addressing the leakages source.
934	GKV-07	Kaizen needed for cable loop in tower section.	Apply rubber mat in the cable loop area to prevent damage due to cable/platform contact.
935	GKV-07	Fire Extinguisher and First Aid Kit not available in all WTGs.	Install Fire Extinguishers and First Aid Kits in all WTGs to ensure safety compliance.

936	GKA-02	Bottom side Power Panel (FG-008) Main Contactor found malfunctioning after grid failure, causing manual operation in all WTGs.	Replace the contactor immediately to restore automatic operation and prevent manual intervention.
937	GKA-02	Bottom Control Panel cable routing not properly organized.	Re-route the cables properly using cable ties to avoid tangling or disconnections.
938	GKA-02	WTG Entry Staircase base found disturbed due to loose leg bolts.	Tighten all leg bolts to stabilize the staircase base.
939	GKA-02	Tower base bolt outside found with missing caps and corrosion.	Apply protective paint to the base bolts and replace 14 missing caps.
940	GKA-02	Loop section cable clamp bolts found loose.	Tighten bolts and apply cable ties to secure cables properly in the loop area.
941	GKA-02	Tower light not functioning.	Replace 6 tower lights and 1 nacelle light to restore proper illumination.
942	GKA-02	Tower T1 and T2 Control cables found loose.	Secure the cables properly using cable ties to prevent disconnections.
943	GKA-02	Cable loop area not maintained, with some cables not properly looped.	Organize cables in the loop section and use cable ties and O-rings to secure them.
944	GKA-02	All tower joint bolts need initial torque, with paint peeling and minor corrosion found.	Torque all tower joints (10% of all sections), apply paint, and address corrosion issues.
945	GKA-02	Generator DE & NDE side grease not available.	Apply grease urgently to all rotating parts to avoid damage.
946	GKA-02	Nacelle Yaw System brake caliper (HYB-6046 & HYB-6047) found with significant oil leakage	"99% of oil leakages shall be arrested by oil seal, and in case any further issues arise, we suggest consulting the OEM of the yaw brake caliper."
947	GKA-02	Aviation lamp found not working.	Replace aviation lamp to maintain compliance with safety standards.
948	GKA-02	Pitch Pump nacelle area hose pipe found with oil leakage	Stop the oil leakages by repairing or replacing the hose pipe.
949	GKA-02	Gearbox offline motor hose connector found with oil leakage	Replace the hose connector to stop oil leakage
950	GKA-02	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
951	GKA-02	Gearbox mounting support found with damaged rubber cover; high gearbox vibration detected.	Check and replace the damaged rubber cover and investigate the cause of high vibration.
952	GKA-02	Safety rope wire at the top side found in open condition.	Apply 3M tape to secure the wire and prevent safety hazards.
953	GKA-02	Safety rope (Life Line) top side main support base found loose.	Tighten hardware on the safety rope support base urgently to ensure safety.
954	GKA-02	Gearbox oil level found to be low.	Top-up oil urgently to restore proper oil levels in the gearbox.
955	GKA-02	Hub entry door and rain stopper cover missing.	Install new hub entry door and rain stopper cover to prevent water ingress.
956	GKA-02	Rotor side base cover missing.	Install a new base cover for the rotor side.
957	GKA-02	First Aid Box and Fire Extinguisher not available in all WTGs.	Install First Aid Kits and Fire Extinguishers in all WTGs for compliance and safety.

958	GKA-02	Kaizen needed for cable loop section in nacelle and tower section.	Install rubber mats in the cable loop areas to prevent cable damage from platform contact.
959	GKA-14	Bottom Power Panel (FG-008) Main Contactor found malfunctioning after grid failure, causing all WTGs to go for manual closing.	Replace the contactor immediately to restore automatic operation and prevent manual intervention.
960	GKA-14	Bottom Control Panel cable dressing not properly organized.	Re-route cables properly using cable ties to prevent tangling or disconnections.
961	GKA-14	Bottom power cable found loose.	Secure cables using cable ties to ensure proper routing and avoid any disconnections.
962	GKA-14	Tower light not working.	Replace 4 tower lights to restore proper illumination and visibility.
963	GKA-14	Bottom Control Panel Power Supply (UU103) found bypassed.	Install a new power supply to ensure proper functioning and prevent further issues.
964	GKA-14	Power cable in loop area found twisted excessively.	Unwind and straighten cables to eliminate the twist and prevent future damage.
965	GKA-14	Cable clamp support not connected properly due to twisted cables and improper loop length.	Reconnect the cable clamps properly and ensure proper cable loop length.
966	GKA-14	Tower T1 and T2 control cables found loose.	Secure cables using cable ties to prevent disconnections and ensure proper function.
967	GKA-14	All tower joint bolts require 10% re-torque; paint peeling and minor corrosion found.	Perform re-torquing on all tower joints and apply paint to prevent corrosion.
968	GKA-14	Top platform power cable found with minor damage.	Apply 3M tape to the damaged area to ensure no further damage occurs.
969	GKA-14	Generator carbon brushes found at 20% wear.	Replace 12 phase carbon brushes and 1 earthing brush
970	GKA-14	Top side safety rope wire found in open condition.	Apply 3M tape to secure the wire and prevent safety hazards.
971	GKA-14	Generator filter unit found dirty.	Clean the generator filter unit to ensure proper air circulation and efficiency.
972	GKA-14	Rotor entry cover found damaged.	Replace the damaged entry cover to prevent debris from entering the rotor area.
973	GKA-14	Generator NDE & DE side greasing required; sound detected from the NDE side.	Apply grease to all rotating parts and rectify the noise in the NDE bearing side.
974	GKA-14	Rotor main bearing found without grease.	Apply grease urgently to the rotor main bearing to prevent damage.
975	GKA-14	Gearbox offline filter hose found with minor oil leakage	Stop the oil leakages by repairing or replacing the hose.
976	GKA-14	Blade grease collection bottle missing (2 units).	Replace the missing grease collection bottles to prevent grease spillage.
977	GKA-14	Nacelle top-side aviation lamp found not working.	Replace the aviation lamp to ensure proper visibility and compliance with aviation standards.
978	GKA-14	Generator power cable gland found loose.	Re-secure the cable gland to prevent exposure of the wiring and potential electrical issues.

979	GKA-14	Kaizen needed for cable loop in the tower section to avoid platform contact.	Apply rubber mats in the cable loop areas to prevent cables from rubbing against the platform.
980	GKA-14	Fire Extinguisher and First Aid Kit not available in all WTGs.	Install Fire Extinguishers and First Aid Kits in all WTGs to meet safety requirements.

### B) Observation and Rectification requirement at Unit Sub Station (USS):

Sr. No.	WTG I'D	OBSERVATION	RECTIFICATION CAPA
1	GKA-48	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
2	GKA-48	Transformer breather silica expired.	Replace with a new breather.
3	GKA-50	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
4	GKA-50	Transformer breather silica found expired.	Replace with a new breather silica.
5	GKA-50	DP yard fence is fully rusty, and door lock is missing.	Paint the rusty areas and install a door lock.
6	GKA-51	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
7	GKA-51	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
8	GKA-51	OTI/WTI cover missing.	Apply or replace the OTI/WTI cover.
9	GKA-42	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
10	GKA-42	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
11	GKA-42	DP yard fencing found rusty.	Apply paint to the rusty fencing.
12	GKA-43	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
13	GKA-43	Transformer breather silica found expired.	Replace the expired silica with a new one.
14	GKA-43	DP yard fencing found rusty.	Apply paint to the rusty areas of the fence.
15	GKA-41	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
16	GKA-41	Transformer breather silica found expired.	Replace with a new silica breather.
17	GKA-41	DP yard fencing found rusty.	Apply paint to the rusty sections of the fence.
18	GKA-41	TR OTI & WTI covers damaged.	Replace the damaged covers with new ones.
19	GKA-45	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
20	GKA-45	Transformer breather silica found expired.	Replace with a new breather silica.
21	GKA-45	DP yard fencing found rusty.	Apply paint to the rusty areas of the fencing.

22	GKA-15	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
23	GKA-15	Transformer breather silica found expired.	Replace the expired silica with a new one.
24	GKA-15	DP yard fencing found rusty.	Apply paint to the rusty areas and replace missing locks.
25	GKA-15	Transformer OTI & WTI glass cover not available, and unwanted bird nest found.	Install the glass cover and remove the unwanted bird nest.
26	GKA-46	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
27	GKA-46	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
28	GKA-46	DP yard fencing found rusty.	Apply paint to the rusty fencing.
29	GKA-46	TR OTI & WTI cover damaged.	Replace the damaged cover.
30	GKA-47	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
31	GKA-47	Transformer breather silica found expired.	Replace the expired breather silica.
32	GKA-36	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
33	GKA-36	Transformer breather silica has expired	Replace the expired silica breather with a new one.
34	GKA-36	DP Yard fencing is rusted	Repaint the rusted sections of the fence with rust-resistant paint and provides the lock.
35	GKA-40	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
36	GKA-40	Transformer breather silica has expired	Replace the expired silica breather with a new one.
37	GKA-40	DP Yard fencing is rusty	Repaint the rusted sections of the fence.
38	GKA-68	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
39	GKA-68	Transformer breather silica has expired	Replace the expired silica breather with a new one.
40	GKA-68	DP Yard fencing is rusty.	Repaint the rusty sections of the fence & replace the missing lock.
41	GKA-68	Transformer OTI & WTI glass covers are missing.	Replace the missing OTI & WTI glass covers on the transformer.
42	GKA-35	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
43	GKA-35	Transformer breather silica found expired.	Replace with a new breather silica.
44	GKA-35	DP yard fencing found rusty.	Apply paint to the fencing.
45	GKA-53	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
46	GKA-53	Transformer breather silica is expired.	Replace with a new breather silica.
47	GKA-53	DP yard fencing found rusty.	Apply paint to the fencing.

48	GKA-52	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
49	GKA-52	Transformer breather silica is expired.	Replace with a new breather silica.
50	GKA-52	DP yard fencing found rusty.	Apply paint to the fencing.
51	GKA-37	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
52	GKA-37	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
53	GKA-37	DP yard fencing found rusty.	Apply paint to the fencing.
54	GKA-37	TR OTI indication not working.	Replace the OTI or repair it, as the indication is not working.
55	GKA-54	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
56	GKA-54	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
57	GKA-54	DP yard fencing found rusty.	Apply paint to the fencing.
58	GKA-34	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
59	GKA-34	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
60	GKA-34	DP yard fencing found rusty.	Apply paint to the fencing.
61	GKA-34	TR OTI indication not working.	Replace the OTI indication, as it is not working.
62	Gak-01	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
63	Gak-01	Transformer breather silica found expired.	Replace the expired breather silica with a new one.
64	Gak-01	DP yard fencing found rusty.	Apply paint to the fencing.
65	Gak-01	TR OTI & WTI covers not set properly.	Ensure the OTI and WTI covers are properly secured.
66	GKA-86	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
67	GKA-86	Transformer breather silica found expired.	Replace the expired silica breather.
68	GKA-86	DP yard fencing found rusty.	Apply paint to the rusty fencing.
69	GKA-86	TR OTI & WTI covers found damaged.	Replace both damaged OTI & WTI covers with new ones.
70	GKA-06	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
71	GKA-06	Transformer breather silica found expired.	Replace the expired silica breather.
72	GKA-06	DP yard fencing found rusty.	Apply paint to the rusty fencing.
73	GKA-06	TR OTI & WTI covers found damaged.	Replace both damaged OTI & WTI covers with new ones.
74	GKA-10	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
75	GKA-10	Transformer breather silica found expired.	Replace the expired silica breather.

76	GKA-10	DP yard fencing found rusty.	Apply paint to the rusty fencing.
77	GKA-10	TR OTI & WTI covers found damaged.	Provide new glass covers for both the OTI and WTI.
78	GAK-66	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
79	GAK-66	Transformer breather silica found expired.	Replace the expired silica breather.
80	GAK-66	DP yard fencing found rusty.	Apply paint to the rusty fencing.
81	GAK-66	TR OTI & WTI covers found damaged.	Provide new glass covers for both the OTI and WTI.
82	GAK-67	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
83	GAK-67	Transformer breather silica found expired.	Replace with new silica breather.
84	GAK-67	DP yard fencing found rusty.	Apply paint to the rusty fencing.
85	GAK-67	TR OTI & WTI glass cover found damaged.	Replace the damaged glass covers for OTI & WTI.
86	GAK-43N	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
87	GAK-43N	Transformer breather silica found expired.	Replace the expired silica breather.
88	GAK-43N	DP yard fencing found rusty.	Apply paint to the rusty fencing.
89	GAK-43N	TR OTI & WTI found not working, with damaged glass covers.	Replace the OTI & WTI components and glass covers.
90	GKA-19	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
91	GKA-19	Transformer breather silica found expired.	Replace the expired silica breather.
92	GKA-19	DP yard fencing found rusty.	Apply paint to the rusty fencing.
93	GKA-20	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
94	GKA-20	Transformer breather silica found expired.	Replace the expired silica breather.
95	GKA-20	DP yard fencing found rusty.	Apply paint to the rusty fencing.
96	GKA-17	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
97	GKA-17	Transformer breather silica found expired.	Replace the expired silica breather.
98	GKA-17	DP yard fencing found rusty.	Apply paint to the rusty fencing.
99	GKA-18	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
100	GKA-18	Transformer breather silica found expired.	Replace with new silica breather.
101	GKA-18	DP yard fencing found rusty.	Apply paint to rusty fencing.
102	GKA-18	Transformer OTI (Oil Temperature Indicator) found faulty or not working.	Replace faulty OTI indicator (material needed).
103	GKA-09	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required

104	GKA-09	Transformer breather silica gel expired.	Replace the silica gel breather.
105	GKA-09	DP yard fencing found rusty.	Apply paint to rusted fencing.
106	GKA-09	Transformer OTI (Oil Temperature Indicator) faulty.	Replace faulty OTI indicator.
107	GKA-13	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
108	GKA-13	Transformer breather silica gel found expired.	Replace with new silica gel.
109	GKA-13	DP yard fencing found rusty.	Apply paint to rusty fencing.
110	GKV-19	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
111	GKV-19	Transformer breather silica found expired.	Replace the expired silica gel.
112	GKV-19	DP yard fencing found rusty.	Apply paint to the rusty fencing.
113	GKV-20	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
114	GKV-20	Transformer breather silica found expired.	Replace the expired silica gel in the transformer breather.
115	GKV-20	DP yard fencing found rusty.	Repaint the rusty sections of the DP yard fencing.
116	GKV-18	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
117	GKV-18	Transformer breather silica found expired.	Replace the expired silica gel in the transformer breather.
118	GKV-18	DP yard fencing found rusty and door lock missing.	Apply paint to the rusty fencing and provide a new lock for the door.
119	GKV-18	TR OTI & WTI indicators not working.	Replace faulty TR OTI and WTI indicators immediately.
120	GKV-32	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
121	GKV-32	Transformer breather silica found expired.	Replace the expired silica gel in the transformer breather.
122	GKV-32	DP yard fencing found rusty and door lock missing.	Apply paint to the rusty fencing and install a new lock for the gate.
123	GKV-32	TR OTI & WTI glass cover found damaged.	Replace the damaged glass cover for both TR OTI and WTI indicators.
124	GKV-15	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
125	GKV-15	Transformer breather silica expired.	Replace expired silica in the transformer breather.
126	GKV-15	DP yard fencing found rusty.	Apply paint to the rusty fencing.
127	GKV-15	TR OTI & WTI glass cover damaged.	Replace the damaged glass cover for both TR OTI and WTI indicators.
128	GKV-39	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
129	GKV-39	Transformer breather silica expired.	Replace expired silica in the transformer breather.

130	GKV-39	DP yard fencing found rusty.	Apply paint to the rusty DP yard fencing.
131	GKV-13	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
132	GKV-13	Transformer breather silica found expired.	Replace expired silica in the transformer breather to ensure proper operation.
133	GKV-13	DP yard fencing found rusty with missing door lock.	Repaint the rusty fencing and install missing locks on the DP yard door.
134	GKV-12	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
135	GKV-12	Transformer breather silica found expired.	Replace expired silica in the transformer breather to ensure proper functioning.
136	GKV-12	DP yard fencing rusty, door lock missing, and OFC cable routing issue.	Repaint rusty fencing, install missing door lock, and correct OF C cable routing.
137	GKV-12	Transformer OTI & WTI indicators not working, and glass cover damage.	Replace faulty indicators and install new glass cover for OTI & WTI indicators.
138	GKV-14	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
139	GKV-14	Transformer breather silica expired.	Replace the expired silica in the transformer breather.
140	GKV-14	DP yard fencing found rusty and door lock missing.	Apply paint to rusty sections of the fence and install missing door lock.
141	GKV-14	Transformer OTI & WTI glass cover damaged, indicators not working.	Replace damaged OTI & WTI indicators and glass cover on transformer.
142	GKV-28	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
143	GKV-28	Transformer breather silica expired.	Replace the expired silica gel in the transformer breather.
144	GKV-28	DP yard fencing found rusty, door damaged, and lock missing.	Repaint the fencing, repair the yard entry door, and install a new lock for security.
145	GKV-28	Transformer OTI & WTI glass cover damaged and indicators not working.	Replace OTI & WTI indicators and glass covers for proper oil temperature monitoring.
146	GKV-21	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
147	GKV-21	Transformer breather silica expired.	Replace the expired silica gel in the transformer breather.
148	GKV-21	DP yard fencing found rusty, door damaged, and lock missing.	Repaint the fencing, repair the yard entry door, and install a new lock for security.
149	GKV-21	Transformer OTI & WTI glass cover damaged and indicators not working.	Replace the OTI & WTI indicators and glass covers to restore functionality and safety.
150	GKV-11	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
151	GKV-11	Transformer breather silica expired.	Replace the silica gel in the transformer breather.
152	GKV-11	DP yard fencing found rusty.	Apply paint to rejuvenate and protect the DP yard fencing.

153	GKV-11	Transformer OTI & WTI indicators faulty and glass cover damaged.	Replace the OTI & WTI indicators, and install new glass covers.
154	GKV-23	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
155	GKV-23	Transformer breather silica expired.	Replace the silica gel in the transformer breather.
156	GKV-23	DP yard fencing found rusty, door lock missing, and OFC cable routing improper.	Apply paint to the DP yard fencing, install door lock, and properly route OFC cable.
157	GKV-23	Transformer OTI & WTI indicators faulty and glass cover damaged.	Replace faulty indicators and install new glass covers for OTI & WTI.
158	GKV-50	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
159	GKV-50	Transformer breather silica expired.	Replace silica gel in the transformer breather.
160	GKV-50	DP yard fencing found rusty, and door lock not available.	Apply paint to the DP yard fencing, install door lock, and secure the entry door.
161	GKV-50	TR OTI & WTI glass covers damaged.	Replace OTI & WTI glass covers and ensure proper installation.
162	GKV-22	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
163	GKV-22	Transformer breather silica expired.	Replace the expired silica in the transformer breather.
164	GKV-22	TR OTI & WTI found not working and cover missing.	Replace the OTI & WTI and install proper glass cover.
165	GKV-22	DP yard fence found rusty and door lock not available.	Paint the rusty area and install a door lock for security.
166	GKV-28.2	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
167	GKV-28.2	Transformer breather silica found expired.	Replace the expired silica in the transformer breather.
168	GKV-28.2	DP yard fencing found rusty, door lock not available, and OFC cable routing improper.	Apply paint to rusty areas, provide door lock, and correct OFC cable routing.
169	GKV-03	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
170	GKV-03	Transformer breather silica found expired.	Replace the expired silica in the transformer breather.
171	GKV-03	DP yard fencing found rusty, door lock not available, and OFC cable routing improper.	Apply paint to rusty areas, provide door lock, and correct OFC cable routing.
172	GKV-02	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
173	GKV-02	Transformer breather silica found expired.	Replace the expired silica in the transformer breather.
174	GKV-02	DP yard fencing found rusty, door lock not available, and OFC cable routing improper.	Apply paint to rusty areas, provide door lock, and correct OFC cable routing.
175	GKV-04	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required

176	GKV-04	Transformer breather silica found expired	Replace the expired silica in the transformer breather.
177	GKV-04	DP yard fencing found rusty, door lock not available, and OFC cable routing improper.	Apply paint to rusty areas, provide door lock, and correct OFC cable routing.
178	GKV-04	Transformer OTI indicator not working or faulty, and glass cover missing.	Top-up oil and replace OTI indicator glass cover.
179	GKV-05	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
180	GKV-05	Transformer breather silica found expired.	Replace the expired silica in the transformer breather.
181	GKV-05	DP yard fencing found rusty.	Apply paint to rusty sections of the fence.
182	GKV-06	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
183	GKV-06	Transformer breather silica found expired.	Replace expired silica in the transformer breather.
184	GKV-06	DP yard fencing found rusty; door lock missing and OFC cable routing improper.	Repaint rusty fencing, install missing door locks, and properly route OFC cables.
185	GKV-07	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
186	GKV-07	Transformer breather silica found expired.	Replace expired silica in the transformer breather to prevent contamination.
187	GKV-07	DP yard fencing found rusty; door lock missing.	Repaint rusty areas of the fencing and install a new door lock to secure the yard.
188	GKA-02	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
189	GKA-02	Transformer breather silica found expired.	Replace expired silica in the transformer breather to prevent contamination.
190	GKA-02	DP yard fencing found rusty; door lock missing and OFC cable routing improper.	Repaint rusty areas, install door lock, and ensure OFC cable routing is proper.
191	GKA-02	Transformer OTI & WTI cover missing.	Install missing covers on the Transformer OTI & WTI to protect temperature sensors.
192	GKA-14	Grass near yard (outside and inside).	Require maintenance for HT Yard and vegetation cutting required
193	GKA-14	Transformer breather silica found expired.	Replace expired silica in the transformer breather to prevent contamination.
194	GKA-14	DP yard fencing found rusty; door lock missing and OFC cable routing improper.	Repaint rusty areas, install door lock, and ensure OFC cable routing is proper.

### C) Observation and Rectification required at Pooling Substation (PSS):

Sr. No.	OBSERVATION	RECTIFICATION CAPA
1	Vegetation has overgrown in the PSS yard.	Vegetation cutting required.
2	Ladders need to be removed from the yard area due to safety concerns.	Remove ladders from the yard area.
3	Many dangerous signboards observed faded.	Replace the faded signboard.
4	Earth resistance measurements are required annually.	Schedule annual earth resistance testing.
5	The earth pit chamber lacks proper nomenclature.	Install clear labels on the earth pit chamber.
6	Faulty yard lights have been found in the PSS yard.	Replace the faulty yard lights.
7	Fire extinguishers require monthly inspections.	Implement a monthly inspection schedule for fire extinguishers.
8	In the PSS: The pressure gauge on the fire extinguisher is faulty.	Replace the faulty pressure gauge immediately.
9	The upper parts (caps) of the R-phase Potential Transformer (MPT) are corroded.	Clean and apply protective coating to prevent further corrosion.
10	Corrosion has been observed on the anchor bolts of the Lightning Arrester (LA) structures.	Inspect and replace corroded bolts as necessary.
11	The main meter mounting structures are corroded.	Clean and repaint corroded structures.
12	The reference meter mounting structure is corroded.	Inspect and repaint the reference meter mounting structure.
13	The terminal box of the 33 kV side isolator is contaminated with moisture.	Dry out the terminal box and replace any damaged components.
14	Locks are missing from several isolator boxes.	Install locks on all isolator boxes.
15	The 33 kV isolator has found inadequate jelly lubrication.	Apply appropriate jelly lubrication to the isolator.
16	The paint on the main touch-up current transformer (CT) is peeling off.	Repaint the affected areas of the CT.
17	Oil seepage has been observed on the auxiliary transformer.	Investigate the source of seepage and repair as necessary.
18	The silica gel in the auxiliary transformer is expired.	Replace expired silica gel.
19	The measuring potential transformer (MPT) and measuring current transformer (MCT) have cables that are not properly stranded.	Need to do inspections to ensure cables remain fastened.
20	Bees' nests are present in earth pit EP-58.	Safely remove bees' nests and inspect the earth pit.
21	The power transformer Silica gel observed expired.	Need to replace the silica gel.
22	The marshalling box of the transformer needs a new acrylic cover.	Replace the acrylic cover of the marshalling box.
23	HV side: The surge monitor requires a paint touch-up.	Touch up the paint on the surge monitor.
24	Corrosion has been observed on the fins of the power transformer on the LV side (lower area).	Inspect and treat corroded fins to prevent further damage.
25	Two bolts are missing from the power transformer sampling valve.	Replace the missing bolts immediately.
26	The current transformers (CT) for Y and B phases are missing in AT Bay – 105.	Replace the missing current transformers immediately.

27	Oil contamination has been observed in the PSS yard.	Clean the contaminated area and investigate the source of oil.
28	In the battery room, the cable laying is not done properly.	Ensure proper cable management by securing cables with ties or conduits and following installation standards.
29	In the ACDB room, there is a risk of rain entry and observed that covered by plastic tarpaulin cover.	Repair the concrete roof of the ACDB room.
30	In the battery backup room, there is no acrylic sheet between the battery terminals.	Install an acrylic sheet between the battery terminals to prevent short circuits and ensure safety.
31	In the battery banks room, one exhaust fan is not available.	Install the required exhaust fan to ensure proper ventilation in the battery bank room.
32	Some lubricants are stored in the battery banks room and need to be separated.	Relocate lubricants to a designated area away from the battery banks to avoid chemical hazards.
33	The UPS units are not placed in their designated areas.	Reorganize the UPS placement according to the designated layout for optimal safety and efficiency.
34	The 33kV bus section (309): The multi-function relay (MFR) is not functioning properly.	Conduct immediate testing and repairs of the MFR to ensure proper operation and safety.
35	Water is seeping can be in the panel during monsoon weather due to concrete issues in the ceiling.	Repair the ceiling to eliminate leaks and ensure the panel is protected from water ingress.
36	The logbook needs to be maintained, including the temperature of the transformer.	Implement a regular logbook update procedure that includes recording transformer temperatures.
37	NIFPES system is not available in Power Transformer	As per CEA regulations 2023, its mandates to install the NIFPES more than 10 MVA capacity of the transformer.

**D) Observation and Rectification in 33 KV Feeder lines (Feeder-1 & Feeder-2):**

Sr. No.	FEEDER	OBSERVATION OF FEEDER'S LINE	Rectification required
1	F#1	GKA-86: 1 pin pole muffing damaged, OFC cable not hanging properly, earthing not connected.	pole muffing civil work require, rearrange ofc cable and connect earthing properly
2	F#1	Cut pole - GKA-43: Pole bent; guy insulator damaged.	corrective action required
3	F#1	Earthing wires are not connected.	Connect earthing wire properly
4	F#1	Way to GKA-2 (Pole No. 3): Unwanted OFC cable found.	Rearrange ofc cable properly
5	F#1	GKA-2 Pole 2: Stay wire loose and corroded, earthing bolt missing.	Tightness of stay wire require, apply missing bolt
6	F#1	GKA-67 Pole 3: OFC cable loose, needs to be tied with noodles.	Rearrange ofc cable properly
7	F#1	GKA-01: Cut Pole 1, Stay wire corroded.	Apply corrosion treatment
8	F#1	GKA-6: Nameplate faded.	Replace Nameplate
9	F#1	Way to GKA-9: OFC cable loose.	Rearrange ofc cable properly
10	F#1	GKA-14, P-7: Cut pole, stay wire corroded, grass cleaning required.	Corrosion treatment and grass cleaning required
11	F#1	GKA-14 Pin pole 8 & 9: Tree cutting required.	corrective action required
12	F#1	GKA-17: OFC cable not hanging properly.	Rearrange ofc cable properly
13	F#1	GKA-18 Pole 4: Fully corroded, needs to be painted.	Pole Painting require
14	F#1	GKA-18 Pole: Corroded.	Pole Painting require
15	F#1	GKA-10 Section Isolator: Dangerous sign missing.	Apply new danger sign board
16	F#1	Way to GKA-36, Guard ring required at P-21 where pathway crosses; needs to be tightened properly.	Guard ring tightening require
17	F#1	Pole 31, Way to GKA-36: Tree cutting required.	corrective action required
18	F#1	Way to GKA-36: Tree cutting required.	corrective action required
19	F#1	Way to GKA-36, Cut pole 18: Stay wire loose, needs to be fixed.	Stay wire tightening require
20	F#1	Near Darade house: Line clearance very low between GKA-10 to GKA- 34, trees present.	corrective action required

21	F#1	Between GKA-10 and GKA-36: Tree cutting required at SP-25.	corrective action required
22	F#1	Between GKA-10 & GKA-36, Cut pole 14: Stay wire soil erosion, muffing soil removal.	Civil work required
23	F#1	Suspension pole (SP-14 to SP-15): Tree cutting required.	corrective action required
24	F#1	Cut pole 5 near GKA-36: Stay wire corroded.	Corrosion treatment require
25	F#1	Cut pole 6 near GKA-36: Stay wire loose and corroded.	Stay wire tightening and corrosion treatment require
26	F#1	P-13 at GKA-54: OFC cable on the ground.	Rearrange ofc cable properly
27	F#1	GKA-45: OFC cable down, needs to be corrected.	Rearrange ofc cable properly
28	F#1	Pole 4 at GKA-42: Stay wire corroded, needs lacquer application.	Corrosion treatment require
29	F#1	GKA-46, P-4: Earthing not connected.	Connect earthing wire properly
30	F#1	GKA-68, Pole 5: Muffing damaged and earthing missing.	Civil work required and connect earthing wire properly
31	F#1	GKA-68, Pole 5: No earthing available.	Connect earthing wire properly
32	F#1	GKA-47, P-5: Earthing not properly fixed, dangerous sign faded.	Connect earthing wire properly, replace danger sign board
33	F#1	GKA-46, P-17: No proper earthing.	Connect earthing properly
34	F#1	GKA-46, P-16: Stay wire clamp bolt corroded.	Apply corrosion treatment
35	F#1	GKA-47, P-8: Stay wire corroded.	Apply corrosion treatment
36	F#1	GKA-51, Pole 7: Earthing missing.	Connect earthing properly
37	F#1	GKA-50, P-14: OFC cable touching stay wire.	Rearrange ofc cable properly
38	F#1	Way to GKA-50: Cut pole bent.	corrective action required
39	F#1	GKA-49: Nameplate faded.	Replace Nameplate
40	F#2	F#2, GKA-13: Isolator stay wire loose and dangerous sign faded.	Stay wire tightening require and replace danger sign board
41	F#2	Pin pole sign boards missing at GKA-13.	Replace danger sign board
42	F#2	T-pole, Poperevadi Temple: Stay wire needs fixing.	Stay wire tightening require

43	F#2	GKA-13, Cut Pole 2: OFC cable down, needs to be fixed.	Rearrange ofc cable properly
44	F#2	GKA-13, Cut Pole 2: Muffing needs repair.	Civil work required
45	F#2	At Poperevadi, cut pole: Earthing not fixed properly, dangerous sign boards missing, apply barbed wire.	Fix earthing wire properly and replace danger sign board.
46	F#2	F#1, GKA-18, Cut Pole 2 and Pin Pole 2: B-phase conductor not stranded.	corrective action required
47	F#2	F#1, GKA-18, Cut Pole 4: R-phase conductor not stranded properly.	corrective action required
48	F#2	GKV-28/2: OFC cable hanging down.	Rearrange ofc cable properly
49	F#2	GKV-28/2: Cut Pole 2: Tree cutting required, risk of falling in monsoon.	corrective action required
50	F#2	GKV-04: 240V line crossing, need guard ring at Cut Pole 1.	corrective action required
51	F#2	GKV-5 at Pole 5: Stay wire corrosion observed.	Apply corrosion treatment
52	F#2	GKV-7, Pole 5: Earthing missing.	Connect earthing properly
53	F#2	GKV-7, Pole 4: Earthing missing.	Connect earthing properly
54	F#2	Poperevadi maintenance isolator near GKV-28: Dangerous sign boards missing.	Replace danger sign board
55	F#2	Poperevadi near GKV-28, Main isolator: Earthing strips not connected.	Connect earthing strip properly
56	F#2	Way to GKV-28, SP-16: Tree cutting required.	corrective action required
57	F#2	Way to GKV-28, SP-17: Tree cutting required.	corrective action required
58	F#2	Way to GKV-28, near SP-17: Cut pole, stay wire not fixed.	Stay wire tightening require
59	F#2	GKV-32, P-6: Stay wire fully loose, needs to be fixed.	Stay wire tightening require
60	F#2	GKV-32, Cut Pole 2: OFC cable not properly hung.	Rearrange ofc cable properly
61	F#2	GKV-18, Between Cut Pole 10 & 9: Guard ring required due to 11kV line crossing above.	corrective action required
62	F#2	GKV-15, Near Cut Pole 1: Tree cutting required, low clearance between ground.	corrective action required
63	F#2	GKV-15, Cut Pole 18: Tree cutting required on priority.	corrective action required
64	F#2	GKV-15, Between Pin Pole 12 & 11: Line crosses above home, need to provide sleeves.	corrective action required
65	F#2	GKV-15, Pin Pole 11: Tree cutting required on priority.	corrective action required

66	F#2	GKV-15, Pole 14: OFC cable needs to be removed from stay wire, earthing missing.	Rearrange ofc cable properly
67	F#2	GKV-13, Pole 8: Stay wire loose, earthing missing; Pole 7 has no earthing.	Stay wire tightening require and connect earthing properly
68	F#2	GKV-28, P-1: Stay wire clamp corrosion observed.	Corrosion treatment require
69	F#2	GKV-28: Isolator earthing missing, dangerous sign boards faded.	Apply earthing and danger sign board
70	F#2	GKV-28, at maintenance isolator: OFC cable at low level, needs to be fixed.	Rearrange ofc cable properly
71	F#2	GKV-28, P-90: Muffing soil erosion, needs to be fixed on priority; requires earthing and dangerous sign boards.	Civil work required, fix earthing and danger sign board
72	F#2	GKV-12, P-1: Earthing missing, dangerous sign boards required.	fix earthing and danger sign board
73	F#2	GKV-12, P-2: No earthing available.	Connect earthing properly
74	F#2	GKV-12: Isolator earthing missing, handle earthing missing.	Connect earthing properly
75	F#2	GKV-12: Isolator dangerous sign boards missing.	replace danger sign board
76	F#2	GKV-21, Near P-7: Tree cutting required, risk of tree fall in adverse weather.	corrective action required
77	F#2	GKV-21, P-1 & 2: Earthing missing.	Connect earthing properly
78	F#2	GKV-14, P-16: Earthing missing.	Connect earthing properly
79	F#2	GKV-14, P-15: loose needs to be fixed, provide stay wire.	Stay wire and tightening require
80	F#2	GKV-14, P-14: Pole bent, muffing required, earthing missing.	corrective action required
81	F#2	GKV-23, P-7: No earthing.	Connect earthing properly
82	F#2	Way to GKV-28, SP Pole 80: No earthing, dangerous sign boards missing.	Connect earthing and replace danger sign board
83	F#2	GKV-28, Cut Pole 41: Tree cutting required on priority.	corrective action require
84	F#2	GKV-28, Cut Pole 48: Stay wire needs fixing.	Stay wire tightening require
85	F#2	GKV-28, Cut Pole 47: Corrosion present, need to remove tarpaulin, install sign boards and barbed wire.	Corrosion treatment require, install danger sign board
86	F#2	GKA-35: Isolator earthing missing.	Connect earthing properly



# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

## SECTION – V:

### SPECIAL TERMS AND CONDITIONS (STC) OF THE CONTRACT

#### 5.1 DEFINITIONS & INTERPRETATIONS:

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- 5.1.1 **“Authorized Representative”** shall mean any authorized personnel of the Employer or the Contractor to perform the duties and obligations of the Contract as the context may require.
- 5.1.2 **“Applicable Law”** shall mean any statute, law, regulation, ordinance, notification, rule, regulation, judgment, order, decree, bye-law, approval, directive, guideline, policy, requirement or other governmental restriction or any similar form of decision of, or determination by, or any interpretation or administration having the force of law in the Republic of India and the State Government, by any Government Authority or instrumentality thereof, whether in effect as of the date of this Contract or thereafter.
- 5.1.3 **“Base Date”** shall mean the date 07 (seven) days prior to the last date of submission of bids including extension (s), if any.
- 5.1.4 **“Bid”** shall mean the Techno Commercial bid and the Price bid submitted by the Bidder along with all documents/credentials/attachments annexure etc., in response to this NIT, in accordance with the terms and conditions hereof.
- 5.1.5 **“Contract/ Contract Agreement”** shall mean the Agreement entered into between the Employer and the Contractor signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein.
- 5.1.6 **“Contract Document”** shall mean collectively the documents listed in Clause 3.2 including any amendments thereto.
- 5.1.7 **“Contractor”** shall mean the successful bidder whose bid to perform the Contract has been accepted by the Employer for issue of the Letter of Award and is named as such in the Contract Agreement and includes the legal Successors or permitted assigns of the Contractor.

Section: V

*“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.*

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- 5.1.8 **“Contract Price”** shall mean the firm sum specified in the Letter of Award/Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- 5.1.9 **“Engineer-In-Charge (EIC)/Officer- In-Charge (OIC)/Consignee”** shall mean the person appointed by the Employer to perform the duties delegated by the Employer.
- 5.1.10 **“Government”** shall mean the Central Government or a State Government as the case may be and includes agencies and Public Sector Enterprises under it, in specific contexts;
- 5.1.11 **“Inspection”** shall mean activities such as measuring, examining, testing, analysing, gauging one or more characteristics of the goods or services or works, and comparing the same with the specified requirement to determine conformity.
- 5.1.12 **“Letter of Award/GeM Order”** shall mean the official notice issued by the Employer notifying the Contractor that his bid has been accepted and LOA/ GeM Order has been placed to the Contractor by Employer.
- 5.1.13 **“Materials”** shall mean all supplies, including consumables, used by the contractor for service performance or use by his staff.
- 5.1.14 **“Parties”**: The parties to the contract are the "Contractor" and the “Employer”, as defined in this clause;
- 5.1.15 **“Purchaser”/ “Employer” / “Owner”/ “Corporation”/“SJVN”** shall mean the SJVN Limited shall include its legal representatives, successors, executor and permitted assigns.
- 5.1.16 **“Tender Document/Bid Document”** shall mean the documents as listed in clause no. 2.2.1 of this tender document including its Amendments (if any) issued by Employer.
- 5.1.17 **“Specifications”** shall mean collectively, all the terms and stipulations contained in this Section IV(Scope of Work).
- 5.1.18 **“Site”** shall mean all 56 Nos. WTGs, Unit Substation (USS), Feeder lines and Pooling Substation (PSS) installed at SJVN’s 47.6 MW Khirvire Wind Power Plant(KWPP) at Tal-Akole, Dist Ahmednagar, Maharashtra and specified in Section-IV: Scope of Works.
- 5.1.19 **“Sub-Contractor”** shall mean a person or corporate body with an agreement with the contractor to carry out a specific part of the contract that may or may not include working on the Site.
- 5.1.20 **“Temporary Works”** shall mean works designed, constructed, installed, and removed by the contractor needed during the Services' performance.
- 5.1.21 **“Works/Services”** shall mean and includes Scope of works/Services to be executed as defined and set out in the Section IV of the tender Document specifications.

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## 5.2 CONTRACT DOCUMENT:

5.2.1 The following documents subsequent amendments/clarifications thereof, if any, shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract: The Contract Agreement as per given Format.

- (i) Service Level Agreement/ Contract Agreement,
- (ii) GeM Contract/Letter of Award,
- (iii) Scope of Works,
- (iv) List of WTG Observations and rectifications as per Audit finding (Annexure-A)
- (v) Special Terms and Conditions (STC)
- (vi) Payment Terms
- (vii) Additional Terms & Conditions (ATC)
- (viii) Notice Inviting E- Tender through GeM
- (ix) Instruction to Bidders (ITB)
- (x) General Terms Conditions (GTC) of GeM
- (xi) Bid/Proposal submitted by the Contractor

5.2.2 The documents mentioned at above para 5.2.1 shall be taken as complementary and mutually explanatory of one another. In case of any contradiction in any of the terms & conditions to the extent that the two provisions cannot co-exist, the order of precedence, unless otherwise agreed, shall be taken in the order set out above and,

5.2.3 In the event of the amendment(s) in respective document/Agreement, the later dated will be preceded over those of the issued earlier.

## 5.3 INTERPRETATION:

5.3.1 The interpretation and construction of the Contract shall be subject to the following provisions:

- i) clause headings shall not affect the interpretation or construction of the Contract;
- ii) a reference to Law includes a reference to that Law as amended, consolidated or re-enacted from time to time;
- iii) references to a "person" includes a natural person and a corporate or unincorporated body;
- iv) words in the singular shall include the plural and vice versa;
- v) references to "representations" shall be construed as references to present facts, to "warranties" as references to present and future facts and to "undertakings" as references to obligations under this Contract;
- vi) provisions including the word "agree," "agreed," or "agreement" require the agreement to be recorded in writing

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- vii) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.
- viii) words "including", "other", "in particular", "for example" and similar words shall not limit the generality of the preceding words and shall be construed as if they were immediately followed by the words "without limitation";
- ix) a reference to one gender shall include a reference to the other genders; and
- x) where the context allows, references to Clauses are to clauses in this Contract and references to Sections are the sections of this Contract.
- xi) In case of any dispute/difference arising out of interpretation of any of the clauses/terms/provisions, decision of the Employer shall be final and binding on all the parties including.

**5.3.2 Incoterms**

Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of Parties there under shall be as prescribed by Incoterms.

Incoterms means international rules for interpreting trade terms published by the International Chamber of Commerce (latest edition), 38 Cours Albert 1er, 75008 Paris, France.

**5.3.3 Entire Agreement**

The Contract constitutes the entire agreement between the Employer and the Contractor with respect to the subject matter of Contract and supersedes all communications, negotiations and agreements (whether written or oral) of Parties with respect thereto made prior to the date of Contract, except that this Clause shall not exclude liability in respect of any fraudulent misrepresentation.

**5.3.4 Amendment**

No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each Party hereto.

**5.3.5 Independent Contractor**

The Contractor shall be an independent Contractor performing the Contract. The Contract does not create any agency, partnership, joint venture or other joint relationship between the Parties hereto. Subject to the provisions of the Contract, the Contractor shall be solely responsible for the manner in which the Contract is performed. All employees, representatives engaged by the Contractor in connection with the performance of the Contract shall be under the complete control of the Contractor. Neither the Contractor nor its employees shall be considered employees of SJVN simply by virtue of work performed pursuant to this Contract.

**5.3.6 Non-Waiver**

- i) Subject to Sub-Clause 5.3.5 ii) below, no relaxation, forbearance, delay or indulgence by either Party in enforcing any of the terms and conditions of the Contract or the granting of time by either Party to the other shall prejudice, affect or restrict the rights of that Party under the Contract, nor shall any waiver by either

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Party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

- ii) Any waiver of a Party's rights, powers or remedies under the Contract must be in writing, must be dated and signed by an authorized representative of the Party granting such waiver, and must specify the right and the extent to which it is being waived.

### 5.3.7 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

### 5.3.8 Communications

- i) Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:
  - a) in writing and delivered against receipt; and
  - b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract Agreement.
- ii) For the purpose of Clause 5.3.7(i), an e-mail is accepted as being "in writing" provided that the same shall be sent or transmitted, without any error message, to the email address for the recipient's communications as stated in the Contract agreement. The time of delivery of the same shall be deemed as 10:00 AM of the first working day after sending it.
- iii) The language for communications shall be the ruling language of the Contract.

### 5.3.9 Law and Language

- i) The Contract shall be considered and made in accordance with the law of the Republic of India. The Contract shall be governed by and interpreted in accordance with laws of the Republic of India.
- ii) The ruling language of the Contract shall be English.

### 5.4 Naming the Contract

The contract to be entered into between Employer and the Contractor as below:

**“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” as per scope of Works, BOQ and terms & conditions.**

### 5.5 EXECUTION OF WORKS

- a. Supply of components, materials and goods mentioned at Material section of Part A & Part B of BOQ.
- b. Execution of services Repair & Restoration Testing and commissioning and demonstration of functionality of WTGs mentioned at service section of Part A & Part B of BOQ.

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- c. Handling, transportation and machinery and repair of approach road to WTGs mentioned at PART C of BOQ.

**5.6 COMMENCEMENT OF WORK:**

The contractor shall supply the materials and start the activities within 15 days from date of acceptance of LoA unless specified otherwise in the Letter of Award.

**5.7 TIMELINES:**

- i) Contractor shall complete the work mentioned at Part A of BOQ within 60 days from date of issuing LOA.
- ii) The entire scope work mentioned at PART A, B & C of BOQ covered under Contract shall be completed within 120 days from the date of issuing LOA.

**5.8 SCOPE OF WORK:**

- 5.8.1 The Scope of Services of the Contractor under the contract shall be as specified in Section-IV: Scope of Services of this Tender Document.
- 5.8.2 This contract is for the performance/ delivery of Works of the description, scope/ quantum, performance standards and quality outlined in the contract during the contract Period specified therein. Unless otherwise specified, the Works shall conform to performance and quality standards as stipulated in the contract or as per best standards in the industry, where not so specified.
- 5.8.3 The contractor shall execute Scope of Works and submit the reports, deliverables, outputs, and documents as stipulated in this contract.
- 5.8.4 The Scope of Works shall include all such work-elements not mentioned explicitly in this Contract, but that can be reasonably inferred from this Contract as being required for attaining Completion of the Work as if such items were expressly mentioned in this Contract.
- 5.8.5 The contractor shall perform the Scope of Works as per Section-IV, and carry out its obligations with all due diligence, efficiency, and economy, observing sound management practices, and employ appropriate advanced technology and safe methods as per the performance standards and quality control parameters as stipulated in the contract. For matters where the contract does not specify any Standard, the Services delivered shall conform to National/ International Standards or generally accepted professional techniques and practices.
- 5.8.6 The Employer shall reserve its right to check the quality of the works being carried out by the Contractor at site. The Employer shall promptly notify the contractor of any identified defects (if found), requesting the correction of the notified defect within a reasonable time.
- 5.8.7 **“Certain machines may be required to be taken under shutdown for carrying out remedial works as per the Scope of Work by the successful bidder/contractor. In this regard, the successful bidder/contractor shall submit a detailed work schedule clearly specifying the time frame required for completion of remedial works for each individual machine. The schedule shall be duly certified by the Engineer-in-Charge (EIC).**

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The schedule of work submitted by the contractor shall be strictly within the overall completion period stipulated in the Special Terms and Conditions of the Contract, i.e., 120 days from the date of issuance of the Letter of Award (LOA).

In the event that the contractor fails to complete the remedial works of any machine taken under shutdown within the stipulated time frame, as per the work schedule duly certified by the EIC, due to non-availability or inadequacy of manpower, tools and tackles, spares, or for any other reasons attributable to the contractor, SJVN shall reserve the right to execute the balance works immediately either departmentally or through an agency authorized by SJVN, at the risk and cost of the contractor. The expenditure incurred on such execution of balance works shall be recovered from the contractor and deducted from the Running Account (RA) bills/CPG.

Further, if the contractor fails to complete the remedial works of a machine within the certified schedule, the loss of generation attributable to such delay shall be recovered from the contractor's Running Account (RA) bills/CPG. "

5.8.8 Further, the electricity required for execution and completion of the above-said works, as per the Scope of Work and Terms & Conditions of the contract, shall be arranged by the contractor at his own cost. No extra payment on this account shall be payable by SJVN.

**5.9 POWER TO VARY OR OMIT WORK:**

- (i) No alterations, amendments, omissions, additions, subtractions, or variations of the work (hereinafter referred to as "variation") under the contract shall be made by the Contractor except as directed by the Employer.
- (ii) If any suggested variations would, in the opinion of the Contractor, if carried out prevent it from fulfilling any of its obligations or guarantees under the Contract, it shall notify the Employer thereof in writing and the Employer shall decide forthwith whether or not the same shall be carried out and if Employer confirms its instruction, the Contractor shall carryout the work as per instructions.
- (iii) The differences in cost, if any, occasioned by such variations, shall be added to or deducted from the Contract Price, as the case may be.
- (iv) In the event of the Employer requiring any variations, reasonable and proper notice shall be given to the Contractor as well, to enable it to make arrangements accordingly, and in cases where goods or materials are already prepared/procured, or any designs, drawings or patterns made or work done that require to be altered, a reasonable sum in respect thereof shall be allowed by the Employer.

In every case in which the Contractor shall receive instructions from the Employer for carrying out any work, which either then or later, will in the opinion of the Contractor involve a claim for additional payment, the Contractor shall as soon as reasonably possible after the receipt of such instructions, inform in writing the Employer of such claim for additional payment.

**5.10 DEDUCTION FROM CONTRACT PRICE:**

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- 5.10.1 The Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.
- 5.10.2 All costs, claims, damages or expenses which the Employer may have paid for which under the Contract the Contractor is liable, may be deducted by the Employer from the proceeds of the Performance Guarantee or from any money due or which may become due to the Contractor under the Contract.
- 5.10.3 Any sum of money due and payable to the Contractor (including Performance Guarantee returnable to him) under this Contract may be appropriated by the Employer and set off against any claim of the Employer out of or under any Contract made by the Contractor with the Employer.
- 5.10.4 It is an agreed terms of the Contract that the sum of money so withheld if retained under this clause by the Employer shall be kept, withheld or retained as such by the Employer till the claims arising out of in the same Contract are either mutually settled or determined by the arbitrator, and the Contractor shall have no claim for interest or damage whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.

**5.11 PRICE ADJUSTMENT:**

The Contract Price quoted by the bidder for carrying out the assessment as per the Scope of Work shall remain firm and not subject to any escalation due to any reason whatsoever during pendency of the contract.

**Payment shall be made only for the actual quantities of material/work executed. The Employer reserves the right to increase or decrease the quantities of BOQ items under PART-A and PART-B as per site requirements, without any change in the unit rates or other terms and conditions of the contract.**

**The Contract Price shall be inclusive of costs towards Lodging Charges, Boarding Charges, Logistics and Conveyance Charges, Idle Charges, personnel, travel fare, requisite certificates, insurance, Personal Protective Equipment (PPE), statutes, central overheads, standard inspection tools, reporting & presentation, and nothing will be paid extra on this account by SJVN.**

**5.12 EMPLOYER’S REPRESENTATIVES:**

**5.12.1 Engineer-In-Charge (EIC)**

**5.12.2** The Engineer In-Charge (EIC shall be named in the Letter of Award/GeM Order. In case EIC is not named in the Letter of Award (LoA)/ GeM Order, then within Seven (07) days from the date of issuance of the LoA/ GeM Order, the Employer shall appoint and notify the Contractor in writing of the name of the EIC. The Employer may from time to time appoint some other person as the EIC in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work. Such appointment shall only take effect upon receipt of such notice by the Contractor. The EIC shall represent and act for the Employer at all times during the performance of the Contract.

All notices, instructions, information, and other communications given by the Contractor to the Employer under the Contract shall be given to the EIC, except as mentioned in clause 5.12.3 hereof. Further, release of Contract Performance Guarantee on

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successful completion of Contract and defect liability period shall be communicated to EIC.

5.12.3 All communications pertaining to execution of Contract Agreement, appointment of EIC and replacement thereof and release of Bid Security shall be communicated to Head of the Tender Inviting Department/Section.

**5.13 CONTRACTOR'S REPRESENTATIVE:**

5.13.1 The Contractor shall submit name of their representative for execution of Contract with the acceptance of LoA/ GeM Order, otherwise before commencement of the Services. If the Employer objects to the appointment within three (03) days giving the reason therefore, then the Contractor shall appoint a replacement within five (05) days of such objection.

5.13.2 The Contractor's Representative shall represent and act for the Contractor at all times during the performance of the Contract and shall give to the EIC all the Contractor's notices, instructions, information and all other communications under the Contract.

5.13.3 All notices, instructions, information and all other communications given by the Employer or the EIC to the Contractor under the Contract shall be given to the Contractor's Representative or, in its absence, its deputy, except as herein otherwise provided.

**5.14 RESPONSIBILITIES OF THE CONTRACTOR:**

5.14.1 The Contractor shall carry out the Services/Works included in the Scope of Services in accordance with Section IV of this Tender Document.

5.14.2 The Contractor shall comply with all applicable laws, ordinances, codes, approved standards, rules and regulations. The laws will include all local, state, national or other laws that affect the performance of the Contract and bind upon the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel.

5.14.3 The Contractor shall exercise all reasonable skill, care and diligence in the performance of the Services and shall carryout all responsibilities in accordance with the recognized professional standards. The Contractor shall promptly replace any employees assigned under this contract whose performance is considered unsatisfactory by SJVN.

5.14.4 The Contractor shall take all necessary steps to ensure confidential handling of all matters and consulting firm should not disclose except as required by law/ order of the court or by any regulatory authority, any confidential information relating to SJVN Ltd. without written consent of SJVN Ltd.

**5.15 RECORDS AND MEASUREMENT:**

The Engineer-in-Charge shall, except as otherwise stated, ascertain and determine by measurement the value of the Work done in accordance with the Contract.

All items having a financial value shall be entered in Measurement Book, level book, etc. prescribed by the Engineer-in-Charge so that a complete record is obtained of all Work performed under the Contract.

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Materials, consumables usage Measurements shall be taken jointly by the Engineer-in-Charge or his authorized representative and the Contractor or his authorized representative before fitting or usage.

Before taking measurements of any Work the Engineer-in-Charge or his authorized representative for the purpose shall give a reasonable notice to the Contractor. If the Contractor fails to attend or send his authorized representative for taking the measurements after such a notice or fails to countersign or to record the objection, if any, within a week from the date of measurement, then in any such event

Measurements taken by the Engineer-in-Charge or his authorized representative shall be taken to be correct measurements of the Work.

The Contractor shall, without extra charge, provide assistance with every appliance, labor etc. necessary for taking measurements.

Measurements shall be signed and dated by both parties each day on the Site on completion of measurement. If the Contractor objects to any of the measurements recorded, a note to that effect shall be made in the Measurement Book against the item objected to and such note shall be signed and dated by both parties engaged in taking the measurement. The decision of the Engineer-in-Charge on any such dispute or difference or interpretation shall be final and binding on both the parties and shall be beyond the scope of the provisions of settlement of disputes under the Contract.

Measurement of Contract items of Work shall be taken in accordance with method of Measurement stipulated in the Technical Specifications/Bill of Quantities (BOQ). In case of extra items, the Engineer-in-Charge shall also specify the method of measurement for such items at the time of his order for execution of such extra items.

#### **5.16 RESPONSIBILITIES OF THE EMPLOYER:**

5.16.1 Employer shall provide necessary information available with him to the Contractor free of cost required to fulfil the Contractor's obligation under the Scope of Services

5.16.2 On receipt of Contractor's queries / request for furnishing requisite documents for preparation of policies and reports etc., SJVN shall furnish the requisite reply / data / documents within desired timeline. All care and effort would be made to provide the data / information as scheduled to facilitate the completion of entire work within the time limit specified in the contract

5.16.3 Employer will make due payment(s) to the Contractor for the services rendered by the Contractor as per the provisions as specified in the contract.

#### **5.17 SUBLETTING THE CONTRACT:**

5.17.1 The Contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the Employer. Any breach of this condition shall entitle the Employer to rescind the contract under Clause 5.56.2 and also render the Contractor liable for payment to the Employer in respect of any loss or damage arising or ensuing from such cancellation/termination. The permitted subletting of Contract by the Contractor shall not establish any contractual relationship between the sub-Contractor

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and the Employer and shall not relieve the Contractor of any responsibility under the Contract.

**5.18 CONTRACT PERFORMANCE GUARANTEE (CPG):**

- 5.18.1 Within 21 (Twenty-One) days after the date of issue of Letter of Award, Contractor shall submit unconditional /irrevocable Bank Guarantee, issued by any Scheduled Bank / Nationalised Bank, towards Contract Performance Guarantee (CPG) for an amount equivalent to 5% of the total Contract Price (Including GST) (GRAND TOTAL PRICE i.e. sum of contract price of Item No A, B & C of Price Bid Response Sheet) Including GST, with a validity up to 90 days beyond the Defect Liability Period.
- 5.18.2 The Contractor shall submit the Contract Performance Guarantee (CPG) to the EIC. However, if the EIC is not declared by SJVN, the CPG shall be submitted to the Tender Inviting Authority.
- 5.18.3 In case Contractor fails to submit above CPG within the stipulated time, penalty @ 1 Y MCLR of SBI (as on the last date of online bid submission) Plus 200 basis points shall be imposed on the Contractor for the number of days of delay in submission of CPG.
- 5.18.4 No interest shall be payable by SJVN on the Contract Performance Guarantee mentioned above at sub-clause 5.18.1.
- 5.18.5 Should there arise any occasion under the contract due to which the periods of validities of Bank Guarantees as may have been furnished by the Contractor are required to be extended/renewed, the Contractor shall get the validity periods of such guarantees extended/renewed, and furnish these to the Engineer-in-Charge before the expiry date of the aforesaid Guarantees originally furnished failing which the existing BG shall be invoked by the EIC. Also, in case of any shortfall at any stage on account of recovery of any dues from the CPG, the Contractor shall make the recovered amount by furnishing an additional CPG of such amount.
- 5.18.6 The Security Deposited/CPG will be refunded to the Contractor within 30 days after satisfactory completion of the Defect Liability Period of contract subject to submission of "Work Completion" certification by EIC.
- 5.18.7 In case of the termination of the contract as per clause 5.56.2, the CPG/ Security Deposit mentioned above at clause 5.18.1 may be forfeited. In case of forfeiture of CPG, applicable GST shall be charged extra.
- 5.18.8 Bank Guarantee shall be effective only when the BG issuance message is transmitted by the issuing bank through SFMS to the designated bank of buyer i.e. State Bank of India, Client name- SJVN Ltd. Account No. – 10835926299, IFSC code: SBIN0063985.

**5.19 TERMS AND PROCEDURE OF PAYMENT:**

The terms and procedure of payment shall be in accordance with the provisions specified in Section VI: PAYMENT TERMS.

**5.20 CONTRACTOR'S UNDERSTANDING:**

It is understood and agreed that the Contractor has, by careful examination, satisfied herself as to the nature, scope and location of the work/services, the type/ character of equipment and facilities needed preliminary to, and during the progress of the

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work/services, the general and local conditions, the labour conditions prevailing therein and all other matters which can in any way affect the work/services under the contract.

**5.21 ACCEPTED PROGRAMME / WORK PROGRESS:**

Unless already incorporated in the Letter of Award/Service Purchase Order, as soon as possible after the Contract is awarded, the Contractor shall submit a work schedule, the Engineer-in-Charge and the Contractor shall agree upon a Work Schedule which will become the 'Contract Work Schedule'. The Work Schedule shall be prepared in direct relation to the time stated in the Contract documents for the completion of the Works. The Work Schedule shall indicate the forecast of the dates of commencement and completion of various trades or sections of work.

All the Contractor's activities shall be performed and completed strictly in accordance with the agreed Work Schedule and to achieve the targets, the Contractor shall have to plan adequate mobilization of all resources. The Engineer-in-Charge, shall however, have the right to review the progress and modify the sequence of carrying out the Work suiting the Site conditions and the Contractor shall be required to comply with such modifications and complete his activities in accordance thereof without any extra cost to the Employer.

**5.22 PROGRESS REVIEW MEETINGS:**

The Contractor shall attend all periodic progress review meetings organized by the Engineer-in-Charge or his authorized representative. The deliberations in the meetings shall interalia include the scheduled program, progress of work achieved (including details of manpower, tools and plants deployed by the Contractor vis -a-vis agreed Work Schedule), inputs to be provided by Employer, delays, if any and recovery programme, specific hindrances to the Work and work instructions by Engineer-in-Charge. The minutes of such meetings shall be recorded. These recordings shall be jointly signed by the Engineer-in-Charge or his authorized representatives and the Contractor and a copy of the signed records shall be handed over to the Contractor.

During the various stages of the work in pursuance of the One-time Remedial Contract, the Contractor shall at his own cost submit periodic progress reports as may be reasonably required by the Engineer-in-Charge with such materials as, charts, network, photographs, test certificates, etc.

**5.23 COMPLIANCE TO EMPLOYER'S INSTRUCTIONS :**

The EIC shall direct the order in which the several components of the work/services shall be provided and the Contractor shall execute without delay all orders given by the EIC from time to time; but the Contractor shall not be relieved thereby from responsibility for the due performance of the work/services in all respects.

**5.24 DEPLOYMENT OF EFFICIENT AND COMPETENT STAFF BY THE CONTRACTOR:**

- i) Contractor warrants that it shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.
- ii) The Contractor shall maintain efficient and competent staff/officer(s)/supervisor(s)/Contractor(s) and sufficient worker(s) for execution of

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contract in proper and desirable manner and shall employ only such supervisors, workers & labour in or about the execution of any of these work/services as are careful and skilled in the various trades. Daily record of such supervisors and labour shall be maintained.

- iii) The Contractor shall at once remove from the site any agents, supervisor, worker or labour who shall be objected to by the EIC. If and whenever required by the EIC, the Contractor shall submit a correct return showing the names of all staff and workers employed by her.
- iv) In the event of the EIC being of the opinion that the Contractor is not employing on the work/services a sufficient number of staff/officer(s)/supervisor(s)/Contractor(s)/worker(s) as is specified or otherwise for proper execution of the work/services within the prescribed procedure and time, the Contractor shall forthwith on receiving intimation to this effect deploy the additional number of staff and labour as specified by the EIC immediately and failure on the part of the Contractor to comply with such instructions will entitle the Owner to rescind/ penalize the contract under suitable clauses of these/special conditions.
- v) The Contractor shall ensure to make timely payments to its employees engaged in the execution of the Contract. However, in case of delayed payment/non-payment by the Contractor to its employees, SJVN reserves the right to make direct payment to such employees & recover the same amount being released from the running bills of the Contractor in the overall interest for the smooth execution of the project.
- vi) The Contractor should ensure that their personnel observe all statutory safety requirement including those prescribed by SJVN. Upon SJVN's written request, Contractor, entirely at its own expense, shall remove immediately any personnel of the Contractor determined by the SJVN to be unsuitable and shall promptly replace such personnel with personnel acceptable to the SJVN. Replacement personnel should be mobilized within 15 days from the date of issuance of notice without affecting the operation of the SJVN.
- vii) The Contractor shall be solely responsible throughout the period of the contract for providing all requirements of their personnel including but not limited to, their transportation to & fro from site, enroute/ local boarding, lodging, personal protective gear & medical attention etc. SJVN shall have no responsibility or liability in this regard.

**5.25 ACCESS TO SITE AND WORKS ON SITE:**

No persons other than the Owner's representative, the Contractor or his duly appointed representative, Sub-Contractor(s) and workmen, shall be allowed to do work on the site, except by the special permission, in writing of the EIC or his representative.

**5.26 INSPECTION AND APPROVAL**

All Works shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice to the Engineer-in-Charge or his authorized representative when each stage is ready. In default of such notice, the Engineer-in-Charge shall be entitled to appraise the quality and extent thereof.

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No work shall be covered up or put out of view without the approval of the Engineer-in-Charge or his authorized representative and the Contractor shall provide full opportunity for examination and measurement of any work which is about to be covered up or put out of view. The Contractor shall give due notice to the Engineer-in-Charge or his authorized representative whenever any such work is ready for examination and the Engineer-in-Charge or his representative shall without unreasonable delay, unless he considers it unnecessary and advises the Contractor accordingly' attend for the purpose of examining and measuring such work. In the event of the failure of the Contractor to give such notice he shall, if required by the Engineer-in-Charge, uncover such work at his own expense.

The Engineer-in-Charge or his authorized representative shall have powers at any time to inspect and examine any part of the Works and the Contractor shall give such facilities as may be reasonably required for such inspection and examination.

The Contractor shall uncover any part of the Works and/or make openings in or through the same as the Engineer-in-Charge may from time to time direct for his verification and shall reinstate and make good such part to the satisfaction of the Engineer-in-Charge.

#### **5.27 TEMPORARY / ENABLING WORKS**

Temporary / Enabling Works as specified in the Technical Specifications or as directed by the Engineer-in-charge for the proper execution of the Works shall be carried out by the Contractor. These Works shall be executed by the Contractor at his own cost.

All equipment, labor, materials including cement, reinforcement and the structural steel required for the Enabling Works associated with the entire Contract shall have to be arranged by the Contractor only. Nothing extra shall be paid to the Contractor on this account and the unit rates quoted by the Contractor on this account and the unit rates quoted by the Contractor for various items in the Bill of Quantities (BOQ) shall be deemed to include the cost of Enabling Works.

The Contractor shall make his own arrangement for movement of men, machinery, other requirement etc. required for carrying out the Work included under this Contract.

#### **5.28 URGENT WORKS**

If any Urgent Work becomes necessary and the Contractor is unable or unwilling at once to carry it out, the Engineer-in-Charge may by his own or other means, carry it out as he may consider necessary. If the Urgent Work shall be such as the Contractor is liable under the Contract to carry out at his expenses all expenses, incurred on it by the Employer shall be recoverable from the Contractor and be adjusted or set off against any sum payable to him.

#### **5.29 SITE TESTING EQUIPMENT AND FACILITIES**

As part of the Contract, the Contractor shall provide and maintain testing equipment and facilities for testing of materials and work executed under the direction and general supervision of the Engineer- in-Charge. The testing equipment should establish meeting

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of requirements detailed in the Technical specifications and scope of work and should have valid calibration certificate

All equipment shall be provided by the Contractor so as to be compatible with the testing requirements specified. The Contractor shall maintain the equipment in good working condition for the duration of the Contract.

The Contractor shall provide approved qualified personnel to operate and maintain the testing equipment and facilities for testing of materials and work executed for the duration of the Contract. The number of staff and equipment available must at all times be sufficient.

The Contractor shall re-calibrate all measuring devices whenever so required by the Engineer-in- Charge and shall submit the results of such measurements without delay.

### **5.30 DISPOSAL OF SCRAP**

The Contractor shall with the agreement of the Employer promptly remove from the site any 'Scrap' generated during performance of any activities at site in pursuance of the Contract. The term 'Scrap' shall refer to scrap/ waste/ remnants arising out of the fabrication of structural steel work and piping work at the project site in the course of execution of the contract and shall also include any wastage of cables during the termination process while installing the cables. GST applicable, if any, shall be to Contractor's account. The removal of scrap shall be subject to the Contractor producing the necessary clearance from the relevant authorities (Custom, GST etc.), if required by the law, in respect of disposal of the scrap. The liability for the payment of the applicable taxes/ duties shall be that of the Contractor. The scrap generated out of Owner issue material without any adjustment to the Contract Price is to be returned to the Employer. Also the scrap generated out of any material, Plant and Equipment specifically stipulated in the Bill of Quantities in the Contract shall be the property of the Employer whether or not incorporated in the Work is to be returned to the Employer.

### **5.31 DISPOSAL OF SURPLUS MATERIAL, PLANT & EQUIPMENT**

Ownership of any material, Plant and Equipment brought by Contractor in excess of the requirements for the Work (i.e. surplus material) shall revert to the Contractor upon Completion of the Work or at such earlier time when the Employer and the Contractor agree that the materials in question are no longer required for the Work. However, any material, Plant and Equipment specifically stipulated in the Bill of Quantities in the Contract shall be the property of the Employer whether or not incorporated in the Work. The Contractor shall remove from the site such surplus material brought by him in pursuance of the Contract, subject to the Contractor producing the necessary clearance from the relevant authorities (Customs, GST etc.), if required by law, in respect of re-export or disposal of the surplus material locally. The liability for the payment of the applicable taxes/duties, if any, on the surplus material so re - exported and/or disposed locally shall be that of the Contractor. The Contractor shall also indemnify to keep the Employer harmless from any act of omission or negligence on the part of the Contractor in following the statutory requirements with regard to removal

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/disposal of surplus material. Further, in case the laws require the Employer to take prior permission of the relevant Authorities before handing over the surplus material to the Contractor, the same shall be obtained by the Contractor on behalf of the Employer. The surplus generated out of Owner issue material without any adjustment to the Contract Price is to be returned to the Employer. Also any surplus generated out of any material, Plant and Equipment specifically stipulated in the Bill of Quantities in the Contract shall be the property of the Employer whether or not incorporated in the Work.

**5.32 CONTRACTOR’S RISKS**

All risks of loss of or damage to the physical property and of personal injury and death, which arise during and in consequence of the performance of the Contract will be the liability of the Contractor, except as otherwise provided in the Contract.

From commencement to completion of the Works, the Contractor shall take full responsibility for the care thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof from any cause whatsoever and shall at his own cost repair and make good the same so that at completion, the Works shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.

The Contractor shall indemnify and keep indemnified the Employer against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the construction and maintenance of the Works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation.

**5.33 PROTECTION AT WORK:**

The Contractor shall have total responsibility for protection of his work during the currency of the contract. No claim will be entertained by the Owner for any damage or loss to the Contractors’ works and the Contractor shall be responsible for the complete restoration of the damaged work to its original condition to comply with the specifications and drawings. Should any such damage to the Contractor’s work occur because of other party not under his supervision or control, the Contractor shall make his claim directly with the party concerned. If disagreement or conflict or dispute develops between the Contractor and the other party or parties concerned regarding the responsibility for damage to the Contractor’s works, the same shall be resolved amicably by the Contractor with other party. The Contractor shall not cause any delay in the repair of such damaged work because of any delay in the resolution of such disputes. The Contractor shall proceed to repair the work immediately and no cause thereof will be assigned pending resolution of such dispute.

**5.34 PROTECTION OF PROPERTY AND CONTRACTOR’S LIABILITY:**

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The Contractor shall be responsible for any damage resulting from his-operations. He shall also be responsible for protection of all persons including members of public and employees of the owner and the employees of other Contractors and sub-Contractors and all public and private property including structures, building, other plants and equipments and utilities either above or below the ground.

The Contractor will ensure provision of necessary safety equipment such as barriers, sign-boards, warning lights and alarms, etc. to provide adequate protection to persons and property. The Contractor shall be responsible to give reasonable notice to the engineer and the owners of public or private property and utilities when such property and utilities are likely to get damaged or injure during the performance of his work and shall make all necessary arrangements with such owners, related to removal and/or replacement or protection of such property and utilities.

**5.35 Material Handling**

**Safe up keep of Dismantled components and issued materials:**

Safe upkeep of dismantled components, issued materials etc. shall be contractor's responsibility. Any loss or damage to them shall be recoverable from the contractor in full.

**Separate stacking / piling of scrap / debris etc**

Contractor shall ensure that the scraps, debris etc generated during the work are stacked / piled neatly, as specified by the EIC in a separately identified spaces, till they are finally disposed.

Transportation of material for maintenance shall be in the scope of Contractor. Similarly, scrap (ferrous, Non-Ferrous & waste oils generated during execution) transportation & deposition in the scrapyard at designated places will also be in the scope of the contractor.

**Scrap & Replaced Faulty Items**

Ownership of scrap/waste/remnants arising out of replacement of existing faulty equipment/items / cables/structures and due to packing materials whatsoever shall be vest with the Employer. The Contractor shall promptly remove all such scrap/waste/remnants from site and shall handover the same to Engineer-in-Charge or store at the location designated by the Engineer-in-Charge and obtained acknowledgment thereof. In no case such scrap/waste/remnants be disposed-off without permission of Engineer-in-Charge.

**5.36 Other Instructions for the Contractor**

Suitable temporary platforms & scaffolding. if required shall be prepared by the contractor as required without any extra cost. Any railing or grills removed temporarily or damaged during work must be fitted back immediately.

Special jigs, fixtures, tools if required for successful completion of the job are contractor's responsibility.

Gate passes for the labor, must be prepared well before the start of the work. Accordingly, agency start its formalities well before time. Agency must know the rules & procedures for the same well within time.

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The contractor after carrying out the job shall fill and submit all readings, reports in recommended formats.

Maintaining quality in general shall be the responsibility of the contractor. Guidelines for maintaining quality of works shall be given to the contractor from time to time during execution of work. Where appropriate quality plan / Hold points have been incorporated in contract, same shall be complied.

The description given in the scope of work is only the broad outline of the job. The contractor shall have to perform all associated jobs, which may be considered necessary for the purpose of successful completion of jobs covered in the scope of work without any additional financial implications.

If required by EIC, works/work instructions to be done may be obtained in writing from the EIC in duplicate books / work registers / communication register / letters etc. All identified works shall be completed to the satisfaction of EIC.

No idling charge will be payable to the Contractor in case of non-availability of shutdown / work permit for any reason.

The Contractor shall ensure that the manpower and T&P shall be available on round the clock basis to meet any emergency at very short notice

All maintenance activities which are carried out by the Contractor should conform to best engineering practices fulfilling all quality parameters and shall be carried out in minimum possible time.

The Contractor shall, unless specifically excluded in the Contract, shall perform all such services not specifically mentioned in the Contract, but that can be reasonably inferred from the Contract as being required for attaining Completion of the Works as if such services and/or items were expressly mentioned in the Contract.

The contractor must establish a site office and store at his own cost. The office must have sufficient seating arrangement for maintaining the records for contracts execution.

The Contractor is deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall cover all its obligations under the Contract.

Following documents will be required for Submission & verification.

- i) Labor license specific to the contract.
- ii) List of consumables brought into plant premises along with their serial nos. and dates and year of purchase where ever applicable. Purity certificates/batch certificates must be submitted along-with each supply.
- iii) Insurance policy or ESI for the workers to be deployed in this contract.
- iv) List of T&P brought into plant premises along with their serial nos. and dates of year of purchase
- v) Test certificates of lifting tools and appliances by competent authority.

Please note that any certificates issued or payment released shall neither be considered as conclusive evidence of the satisfactory performance of the service covered under the Contract, either wholly or in part, nor shall any certificate or payment be construed as acceptance of defective or improper service or as relieving Contractor from their responsibility under this Contract.

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The contractor shall have to deploy manpower (staff & workers) for the work round the clock as per requirement. He shall engage his manpower such as to complete the work in shortest possible time.

Supervision of all works by Technically competent supervision staff is must. No work shall be executed without supervision. Minimum 01 no. Supervisor must be available for Night shift duty.

**5.37 GENERAL HEALTH, SAFETY & ENVIRONMENT (HSE) GUIDELINES:**

- i) The Contractor shall ensure proper safety of all the workmen, materials, plant and equipment belonging to him or to the Owner or to others, working at or near the site. The Contractor shall also be responsible for provisions of all safety notices and safety equipment required both by the relevant legislations and the EIC as he may deem necessary.
- ii) The Contractor shall be responsible for the safety of all activities on the Site. The Contractor shall be responsible for the safety of all persons employed by him on Site, directly or through petty Contractors or Sub-Contractors, and shall report accidents to any of them, however, and wherever occurring on Works, to the EIC and shall make every arrangement to render all possible assistance and to provide prompt and proper medical attention. The compensation for affected Workers or their relatives shall be paid by the Contractor in such cases expeditiously as per the Workmen's Compensation Act and other labour codes.
- iii) All equipment used in construction and erection by Contractor shall meet Indian/ International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipment shall be strictly operated and maintained by the Contractor in accordance with manufacturer's operation manual and safety instructions and as per Guidelines in this regard.
- iv) The Contractor shall provide suitable safety equipment of prescribed standard to all employee and workmen according to the need or as may be directed by EIC who will also have right to examine this safety equipment to determine their suitability, reliability, acceptability and adaptability.
- v) It will be solely the Contractor's responsibility to fulfil all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-Contractors hired by Contractor comply with the same requirement as the Contractor himself and shall be liable for ensuring compliance all HSE laws.
- vi) It will be entirely the responsibility of the Contractor/his supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in SJVN's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager/Safety Officer/ Engineer/Official/Supervisor/Junior Engineer for safe operation.
- vii) Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the Contractor only.

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- viii) Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the Contractor.
- ix) **Safety of Public and Third parties:** The Contractor shall be responsible for taking all precautions to ensure the safety of the public and third parties, whether on public or Owner's property and shall take all necessary steps required to comply with regulations appertaining to the service. No explosives shall be used for the Services rendered or on the site by the Contractor.

**5.38 ENVIRONMENTAL LAWS:**

All applicable codes, laws, rules and regulations relating to actual or potential effect of the activities on and at the works contemplated by executing this works on the environment, the disposal of material, the discharge of chemicals, gases or other substances or materials into the environment, or the presence of such materials, chemicals, gases or other substances in or on the project.

**5.39 SITE HINDRANCE REGISTER:**

The Contractor shall maintain a register at the site office and record hindrance, if any, in the site register to be duly signed by Contractor or his authorized representative and verified by EIC or his authorized representative

**5.40 WORK COMPLETION CERTIFICATE:**

5.40.1 As soon as the Work/activity is completed, the Contractor shall give notice of such completion to the Engineer-in-Charge and receipt of such notice the Engineer-in-Charge shall inspect the Work and shall furnish the Contractor with a certificate of completion indicating (a) date of completion, (b) defects if any, in the Work to be rectified by the Contractor and/or (c) items if any, for which payment shall be made at reduced rates. When separate periods of completion have been specified for items or groups of items, the Engineer-in-Charge shall issue separate completion certificates for such item or groups of items. No certificate of completion shall be issued nor shall the Work be considered to be complete till the Contractor shall have removed from the premises on which the Work has been executed all scaffolding, sheds and surplus materials (except such as are required for rectification of defects), and the like to the satisfaction of Engineer -in-Charge. If the Contractor fails to comply with any of the requirement of the conditions as aforesaid, on or before the date of completion of the Works, the Engineer-in-Charge may, at the expense of the Contractor fulfil such requirements and dispose of the scaffoldings, surplus materials and rubbish etc. as he thinks fit and recover the cost after giving due credit for the realized amount. The term 'completion' used herein means the physical completion of the Work and in no way means to connote the quality or time of performance of the Work.

5.40.2 If at any time before completion of the entire Work, items or groups of items for which separate periods of completion have been specified, have been completed, the Engineer-in-Charge can take possession of any part or parts of the same (any such part(s) being hereinafter in this Condition referred to as 'the relevant part') notwithstanding anything expressed or implied elsewhere in this Contract.

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- 5.40.3 Final payment shall be released to the Contractor after issuance of Work Completion Certificate as per provision of above sub clause and receipt of **"No Claim Certificate"** from the Contractor.
- 5.40.4 Notwithstanding the issue of Work Completion Certificate for Work, the Contractor and the Owner shall remain liable for the fulfilment of any obligation incurred under the provision of the contract before the issue of the Work Completion Certificate for Work, which remains unperformed at the time such certificate is issued. The contract shall be deemed to remain in force till the nature and extent of any such obligations are determined.
- 5.40.5 No certificate other than completion certificate referred to in sub-clause above shall be deemed to constitute approval of any work or other matter in respect of which it is issued or shall be taken as an admission of the due performance of the contract or any part thereof or of the accuracy of any claim or demand made by the Contractor or of additional varied work having been ordered by the EIC nor shall any other certificate conclude or prejudice any of the powers of the EIC.

**5.41 FINAL BILL PAYMENT:**

- i) The Contractor shall submit a Final bill after issuance of Work Completion Certificate by EIC regarding the work. The Final payment shall be made as per the following calculations to the Contractor after receiving a clear **"No Claim Certificate"** signed by the Contractor:
  - a) necessary adjustment for any payments already made or retained
  - b) any deduction which may be made under the contract
- ii) The Contractor shall submit a **"No Claim Certificate"** to the EIC in such form as shall be required by the EIC after the Works are finally completed and before the final payment/ performance securities are released.
- iii) The Contractor shall not be entitled to make any claim whatsoever against the Owner under or arising out of this Contract, nor shall the Owner entertain or consider any such claim, if made by the Contractor, after submission of **"No Claim Certificate"** to the Owner.
- iv) Final payment shall be released to the Contractor after issuance of Work Completion Certificate as per provision of Clause 5.40 of this Section.

**5.42 CLOSURE OF CONTRACT:**

The contract shall stand closed upon

- i successful performance of all obligations by both parties, including Warranty obligations and final payment.
- ii termination and settlements after that, if any, as per provision of contract
- iii Release of CPG submitted by the Contractor

**5.43 CLEARANCE OF SITE ON COMPLETION:**

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- i. On completion of the Work, the Contractor shall clear away and remove all tools /plants and surplus materials, rubbish and temporary works of every kind and leave the whole of the site clean to the satisfaction of the EIC.
- ii. No final payment in settlement of the accounts for the Work shall be paid, held to be due or shall be made to the Contractor till, in addition to any other condition necessary for final payment, site clearance shall have been affected by him.

**5.44 LIQUIDATED DAMAGES FOR DELAY:**

Time is the essence of the Contract. If the Contractor fails to complete the works/services within the stipulated period as specified in clause 5.7, due to the reason(s) attributable to the Contractor, SJVN without prejudice to its other remedies under the contract shall deduct from the total contract price, as Liquidated Damages (LD) and not as a penalty an amount @ 1% of Contract Price of the uncompleted portion of the work per week or part of the week of delayed period, subject to maximum of 10% total Contract Price (excluding taxes). The Employer may, without Prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor. Any GST liability on account of Liquidated Damages shall be borne by the Contractor. However, in case the delay is not attributable to the Contractor, the LD charges shall not be applicable.

**5.45 DEFECT LIABILITY PERIOD:**

**5.45.1 Liability for Damage, Defects or Imperfections and Rectification thereof**

If the Contractor or his workmen or employees shall damage or destroy any part of the building/structure, machine, equipment's in which they may be working or any building, road, fence etc. contiguous to the premises on which the Work or any part of it is being executed, or if any damage shall happen to the Work while in progress, the Contractor shall upon receipt of a notice in writing in that behalf make the same good at his own expense. If it shall appear to the Engineer-in-Charge or his representative at any time during construction or re-construction or prior to the expiration of the Defects Liability Period, that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the Contractor for execution of the Work are unsound or of a quality inferior to that contracted for, or otherwise not in accordance with the Contract, or that any defect, shrinkage or other faults have appeared in the Work arising out of defective or improper materials or workmanship, the Contractor shall, upon receipt of a notice in writing in that behalf from the Engineer-in-Charge, forthwith rectify or remove and re-construct the work so specified in whole or in part, as the case may require or as the case may be, and/or remove the materials or articles so specified and provide other proper and suitable materials or articles at his own expense, notwithstanding that the same may have been inadvertently passed, certified and paid for and in the event of his failing to do so within the period to be specified by the Engineer-in-Charge in his notice aforesaid, the Engineer-in-Charge may rectify or remove and re-execute the work and/or remove and replace with others, the materials or articles complained of, as the case may be, by other means at the risk and cost of the Contractor.

**5.45.2 Defects Liability Period**

Unless otherwise specified in the Technical Specifications and Scope of Work, the Contractor shall be responsible to make good and remedy at his own expense within

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such period as may be stipulated by the Engineer-in-Charge, any defect which may develop or may be noticed before the expiry of twelve (12) months from the certified date of completion of the Work (One-time Remedial Work), the contractor shall ensure validity of CPG till defect liability period. The defect liability shall commence after the final issuance of work completion certificate by EIC for a period of 12 months.

If the contractor, fails to rectify/ replace the defect(s) within such period, it shall amount to breach of Contract, and the Employer shall proceed to take such remedial action(s) as deemed fit by it.

**5.46 LABOUR LAWS & RELATED OBLIGATIONS:**

5.46.1 During continuance of the Contract, the Contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority and. the Contractor shall be solely responsible to comply with all obligations & payments there under.

5.46.2 No compensation will be entertained for the liabilities arising out of any provision of any act, Law, rules, & legislation in force from time to time pertaining to labour. The Contractor shall keep the SJVN indemnified in case any action is taken against SJVN by the competent authority on account of contravention by the Contractor of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. In case SJVN is liable to pay any charges/penalty arising out of noncompliance by the Contractor, the same shall be recovered from the Contractor.

**5.47 TAXES AND DUTIES:**

5.47.1 Except as otherwise specifically provided in the contract, the Contractor shall bear and pay all taxes, duties, cess, levies and charges assessed on the Contractor, by all Municipal, State or Central Government authorities.

5.47.2 GST shall be paid extra on actual as per prevailing rate under GST Act, 2017 and ‘Bill To’ details, as per requirement of GST Act, shall be provided by Engineer- In charge (EIC).

5.47.3 For the purpose of the Contract, it is agreed that the Contract Price specified in the Contract Agreement is based on the taxes, duties, levies and charges prevailing at the Base Date (hereinafter called “Tax” in this Sub-Clause). If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of Contract, which was or will be assessed on the Contractor in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction there from, as the case may be, in accordance with Clause 5.41 hereof.

**5.48 ANTI-PROFITEERING CLAUSE:**

a) As per Clause 171 of GST Act it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer by way of commensurate reduction in prices.

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b) In case rating of Contractor is negative/black listed after award of work for supply of goods/services, then SJVN shall not be obligated or liable to pay or reimburse GST to such vendor/Contractor and shall also be entitled to deduct/recover such GST along with all penalties/interest, if any, incurred by SJVN.

**5.49 CHANGE IN LAWS AND REGULATIONS:**

If, after the Base Date, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed which shall be deemed to include any change in interpretation or application by the competent authorities, that subsequently affects the costs and expenses of the Contractor, the Contract Price shall be correspondingly increased or decreased to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable.

**5.50 CONFIDENTIALITY:**

5.50.1 The Contractor shall maintain confidentiality of the information provided to the Contractor, which shall include the financial position of SJVN.

5.50.2 During the execution of this specific project except with the prior written consent of SJVN, the Firm and its personnel shall not at any time communicate to any person or entity any information acquired or made available or produced in the course of the said project. In no case, the Contractor shall share the report or any part thereof generated as a result of this work with anybody other than SJVN Ltd.

5.50.3 Notwithstanding anything contained in this contract, the provisions of this clause shall survive for a period of five (5) years from the date of termination / closure of this contract. An undertaking regarding adherence to the confidentiality is provided as Attachment-3 of section-VII: Forms and Formats of this Tender Document. The same has to be filled and submitted by the Bidder along with Bid.

**5.51 INDEMNIFICATION:**

5.51.1 The contractor shall indemnify and keep harmless the Employer, from and against, all actions, suit proceedings, losses, costs, damages, charges, claims, and demands of every nature and description brought or recovered against the Employer because of any act or omission or default or negligence or trespass of the contractor, his agents, or employees despite all reasonable and proper precautions may have been taken, during the execution of the works. The contractor shall make good at his own expense all resulting losses and/ or damages to

- a) the Works themselves or
- b) any other property of the Employer or
- c) the lives, persons, or property of others

5.51.2 In case the Employer is called upon to make good such costs, loss, or damages, or to pay any compensation, including that payable under the provisions of the Workmen's Compensation Act or any statutory amendments thereof; the amount of any costs or charges including costs and charges in connection with legal proceedings, which the Employer may incur about it, shall be charged to the contractor. All sums payable by

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way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained and whether or not any damage shall have been sustained.

5.51.3 The Contractor shall not be liable for any indirect or consequential losses which the SJVN may suffer or incur.

**5.52 CONFLICT OF INTEREST:**

- i. SJVN requires that the Firm, while working on SJVN's assignment, should provide professional, objective, and impartial advice and at all times hold SJVN's interests paramount, strictly avoid conflicts with other assignments/jobs or their own corporate interests and act without any consideration for future work.
- ii. The Contractor shall hold the Owners interest paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests
- iii. A firm hired to provide consulting services for the preparation or implementation of a project, and any of its affiliates, shall be disqualified from subsequently providing goods or works or services related to same project
- iv. Contractor shall not have a conflict of interest that may affect the Selection process or the Consultancy. Any Contractor found to have a conflict of interest shall be disqualified. In the event of disqualification, the client shall forfeit the bid security/EMD

**5.53 EXTENSION OF TIME:**

- i) The time and uninterrupted delivery of work shall be deemed to be the essence of the contract. Subject to any requirement in the contract as to the completion of any portions or portions of the work before completion of the whole; the contractor shall fully and finally complete the whole of the scope of works comprised in the contract as per the timeline stipulated in Clause 5.7. If at any time during the currency of the contract, the contractor encounters conditions hindering the timely performance of works, the contractor shall promptly inform the Employer in writing about the same and its likely duration. He must make a request to the Employer for an extension of the time. On receiving the contractor's communication, the Employer shall examine the situation and, at its discretion, may agree to extend the Work completion schedule, with or without liquidated damages by issuing an amendment to the contract.
- ii) Any period within which a Party shall, pursuant to this Contract complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure. However, the extended time of any event of Force Majeure shall be mutually agreed between the Parties without any time related cost/compensation.
- iii) In case of delay on the part of the Contractor in completing the scope of works, the extension of time may be granted by SJVN at its discretion with levy of LD pursuant to Clause 5.44. Provided further, that if SJVN is not satisfied that the Work can be completed by the contractor or in the event of failure on the part of the contractor to complete the work within the extension of time allowed further as aforesaid, SJVN shall be entitled without prejudice to any other right or remedy available in that behalf,

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treat the delay as a breach of contract and avail any or all the remedies thereunder, whether or not actual damage is caused by such default. However, in case the delay is on the part of SJVN or not attributable to the Contractor, the extension of time may be granted by SJVN at its discretion without levy of LD pursuant to Clause 5.44.

**5.54 LIMITATION OF LIABILITY:**

Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the contractor to the Employer, whether under the contract, in tort or otherwise, shall not exceed the total Contract Price (Excluding GST), provided that this limitation shall not apply to the cost of repairing or replacing defective workmanship executed by him, or to any obligation of the contractor to indemnify the Employer.

**5.55 FORCE MAJEURE:**

**Definition of Force Majeure**

“Force Majeure” shall mean any event beyond the control of the Employer or of the Contractor, as the case may be, and which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the Contract.

Notwithstanding the generality of the above, the following events shall be termed as Force Majeure events in respect of the Contract:

- (a) war, hostilities or warlike operations (whether as state of war be declared or not), invasion, act of foreign enemy and civil war, pandemic, lockdown and any act of GOD.
- (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts,
- (c) earthquake, landslide, volcanic activity, flash flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster,
- (d) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act of failure to act of any local state or national government authority,
- (e) national/sectoral/illegal strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, epidemics, quarantine and plague.
- (f) If any items are required to be imported from foreign countries, the contractor shall arrange for their procurement within the stipulated contract period. However, in the event of delays caused by circumstances—such as government-imposed import restrictions, trade embargoes, global supply chain disruptions, war, natural disasters, or pandemics—the contract period may be extended at the discretion of the competent authority, subject to verification and approval of the justifiable reasons for the delay.

**5.56 TERMINATION:**

**5.56.1 Termination for Employer’s Convenience:** The Employer reserves the right to terminate the Contract, either in part or in full, at any time for any reason by giving the

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Contractor a prior notice of termination of 30 days. Upon receipt of such notice of termination, the Contractor shall within 30 days, cease/discontinue all further work/services, except for such work as the Employer may specify in the notice of termination. In the event of termination of the Contract under this sub-clause, the Employer shall pay to the Contractor the Contract Price, proportionately attributable to the parts of the work/services executed by the Contractor as of the date of termination.

**5.56.2 Termination for Contractor’s Default:**

- i) The Employer, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons therefore to the Contractor, referring to this sub-clause, if the Contractor:
  - a) becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Contractor is a corporation, a resolution is passed or order is made for its winding up, other than a voluntary liquidation for the purposes of amalgamation or reconstruction, a receiver is appointed over any part of its undertaking or assets, or if the Contractor takes or suffers any other analogous action in consequence of debt; or
  - b) assigns or transfers the Contract or any right or interest therein in violation of the provision of sub-Clause 5.17; or
  - c) in the judgment of the Employer has engaged in corrupt, collusive, coercive, or fraudulent practices, as defined in Clause 2.26.1, in competing for or in executing the Contract; or
  - d) has abandoned or repudiated the Contract; or
  - e) has without valid reason failed to commence work/services within the time as specified in LoA; or
  - f) persistently fails to execute the Contract in accordance with the Contract or neglects to carry out its obligations under the Contract without just cause; or
  - g) refuses or is unable to provide sufficient men, machine, materials, services to execute and complete the Facilities in the manner specified Employers’ Requirements. If the Contractor fails to remedy or to take steps to remedy the same within five (05) days of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor that refers to this Sub-Clause 5.56.2(i).
- ii) The employer may, without prejudice to any other rights it may possess under the contract, give a notice to the Contractor stating the cause(s) including the nature of the default and requiring the Contractor to remedy the same within the timeline as specified in such notice. If the Contractor fails to remedy or to take steps to remedy the same within time as specified in such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor.
- iii) Upon receipt of the notice of termination under sub-clauses 5.56.2 (i), the Contractor shall, either immediately or upon such date as is specified in the notice of termination, cease/discontinue all further work/services, except for such work as the Employer may specify in the notice of termination. In the event of

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termination of the Contract under this sub-clause, the Employer shall have right to forfeit the Contract Performance Guarantee/Performance Security deposited by the Contractor in accordance with Clause 5.18 along with applicable GST.

## **5.57 SETTLEMENT OF DISPUTES:**

### **5.57.1 Amicable settlement:**

- i) The Parties (i.e., the Buyer and the Seller/ Service Provider) undertake that any conflict or dispute that may arise between them shall first be dealt with in the manner stated below, irrespective of any other recourse, which any Party may have in law or in equity.
- ii) In the event of any conflict or dispute arising out of or in connection with the Contract placed through GeM, the Parties shall endeavor to settle such disputes amicably. If a dispute is not resolved within 30 (thirty) days after a written notice of any dispute by one Party to the other, the same shall then be resolved through the mechanism of a Dispute Resolution Committee. This Dispute Resolution Committee shall comprise of representatives of both the Buyer and the Seller / Service Provider and shall be chaired by the Primary User of the Buyer organization/department or any other person as authorized by the Primary User. If the Dispute Resolution Committee is not able to resolve the matter within 30(thirty) days of its formation, the dispute shall then be referred to Arbitration.

### **5.57.2 Arbitration:**

In the event of any conflict / dispute arising out of or in connection with the Contract placed through GeM, which has not been resolved in accordance with the procedure laid down in Clause 5.57 above, the aggrieved Party may invoke Arbitration by sending a written notice to the other Party. The procedure for appointment of the Arbitral Tribunal shall be as follows.

- i) In cases where the total value of the Contract is less than INR 1, 00, 00,000/- (Indian Rupees One Crore only) the same shall be referred to a sole arbitrator mutually appointed by both the Parties.
- ii) Where the total value of the Contract exceeds INR 1,00,00,000/- (Indian Rupees One Crore only), the arbitration shall be conducted by a quorum of three arbitrators. Each party shall be entitled to appoint an arbitrator and the two party-appointed arbitrators shall within 30 (thirty) days from their nomination, appoint a third arbitrator i.e., the Presiding Arbitrator.
- i) In case of failure to appoint the Presiding Arbitrator within a period of 30 (thirty) days from the date of nomination of the two arbitrators by the respective parties, the aggrieved party shall approach the High Court (under whose jurisdiction the principal place of business of the Buyer department/ organization is located) to appoint the Presiding Arbitrator as per the provisions of the Arbitration and Conciliation Act, 1996 (as amended up to date).
- iv) The arbitration shall be conducted in the English language. Arbitration proceedings can also be conducted online, as per the discretion of the Arbitral Tribunal.
- v) The cost of the Arbitration shall be equally borne by both the Parties.

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- vi) The award of the arbitrator shall be final and binding on the Parties to the Contract. The arbitration shall be governed by the Arbitration and Conciliation Act, 1996, as amended up to date. The seat of arbitration shall be at New Delhi.
- vii) The Contract shall be interpreted and governed in all respects in accordance with the laws of India. All disputes in connection with or arising out of the Contract, shall be subject to the exclusive jurisdiction of the Court within the local limits of whose jurisdiction principal place of business of the Buyer department / organization is located.

5.57.3 Both the Parties understand and agree that GeM being an Intermediary cannot be made a party to any dispute in connection with or arising out of the Contract and/or the arbitration proceedings between the Parties

5.57.4 Where the arbitral award is for the payment of money, no interest shall be payable on whole or any part of the money for any period till the date on which the award is made.

**5.57.5 In case of Bidder is a Public Sector Undertakings (PSU)**

In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018 and its subsequent amendment (if any).

**5.58 LAWS GOVERNING THE CONTRACT:**

The Contract is governed by and shall be construed in accordance with the laws of the Republic of India.

**5.59 JURISDICTION OF COURTS:**

The Courts of Shimla, Himachal Pradesh shall have exclusive Jurisdiction in all matters arising under the contract between the parties.

-----**END OF SECTION**-----

Section: V	<i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i>	Page 29 of 29
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# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

## **SECTION-VI : PAYMENT TERMS**

- 6.1 The payment to the Contractor shall be released only after submission of CPG as per Clause 5.18 of Section-V: STC and signing of Contract Agreement/Service level Agreement as per Clause 2.23 of Section-II: ITB of this Tender Document.
- 6.2 Payment shall be made only for the actual quantities of material executed/procured. The Employer reserves the right to increase or decrease the quantities of BOQ items under PART-A and PART-B as per site requirements, without any change in the unit rates or other terms and conditions of the contract.
- 6.3 SJVN shall pay the agreed contract price as per the following schedule within twenty-one (21) days of submission of invoice(s) complete in all respects to the Engineer-in-Charge (EIC) in the following manner:

### 6.2.1 Payment for Material section of PART A of BOQ:

i.) 75% payment along with applicable GST for payment of the Goods portion (i.e. at Material section, Part A of **Price Schedule/BOQ**) for each identified BOQ Item shall be released on pro rata basis, after receipt of the Goods at site, inspection and acceptance thereof by Engineer-in-Charge and on submission of following documents:

#### (a) Tax/GST Invoice.

(b) Submission of material physical verification certificate issued by the EIC.

ii) 20% payment along with applicable GST for payment of the Goods portion (i.e. at Material section, Part A of **Price Schedule/BOQ**) of for each identified BOQ Item shall be released after completion of activities/services mentioned at Part A of BOQ on submission of relevant documents on acceptance of services by Engineer-in-Charge as below.

#### (a) Tax Invoice.

(b) Work completion certificate issued by the EIC.

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iii) Balance Five percent (5%) payment of the Goods portion (i.e. Material section Part A of **Price Schedule/BoQ**) for each identified BOQ Item shall be released on completion of Defect Liability Period and Certification thereof by EIC.

#### 6.2.2 Payment for Service Section of PART A of BOQ:

i) 95% payment along with applicable GST for each activity indicated in price schedule at Service section of Part A of price schedule/BoQ on pro rata basis, shall be released on submission of relevant documents on acceptance of services by Engineer-in-Charge as below.

(a) Tax Invoice

(b) Certificate of completion of the activity issued by the EIC

ii) Balance Five percent (5%) payment of the Service portion of Part A of price Schedule/BoQ for each identified BOQ Item shall be released on completion of Defect Liability Period and Certification thereof by EIC.

#### 6.2.3 Payment for Material section of PART B of BOQ:

i.) 75% payment along with applicable GST for payment of the Goods portion (i.e. at Material section, Part B of **Price Schedule/BOQ**) for each identified BOQ Item shall be released on pro rata basis, after receipt of the Goods at site, inspection and acceptance thereof by Engineer-in-Charge and on submission of following documents:

**(a) Tax/GST Invoice.**

(b) Submission of material physical verification certificate issued by the EIC.

ii) 20% payment along with applicable GST for payment of the Goods portion (i.e. at Material section, Part B of **Price Schedule/BOQ**) of for each identified BOQ Item shall be released after completion of activities/services mentioned at Part B of BOQ on submission of relevant documents on acceptance of services by Engineer-in-Charge as below.

(a) Tax Invoice.

(b) Work completion certificate issued by the EIC.

iii) Balance Five percent (5%) payment of the Goods portion (i.e. Material section Part B of **Price Schedule/BoQ**) for each identified BOQ Item shall be released on completion of Defect Liability Period and Certification thereof by EIC.

#### 6.2.4 Payment for Service Section of PART B of BOQ:

Section VI	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 2 of 3
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i) 95% payment along with applicable GST for each activity indicated in price schedule at Service section of Part B of price schedule/BoQ on pro rata basis, shall be released on submission of relevant documents on acceptance of services by Engineer-in-Charge as below.

(a) Tax Invoice

(b) Certificate of completion of the activity issued by the EIC

ii) Balance Five percent (5%) payment of the Service portion of Part B of price Schedule/BoQ for each identified BOQ Item shall be released on completion of Defect Liability Period and Certification thereof by EIC.

#### **6.2.5 Payment for PART C of BOQ.**

i) 100% payment along with applicable GST for each activity indicated in price schedule Part C of BOQ, shall be made on submission of relevant documents as below after successful testing, commissioning and demonstration of functionality:

(a) Tax Invoice.

(c) Work completion Certificate issued by the EIC.

-----END OF SECTION-----

Section VI	<b><i>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”.</i></b>	Page 3 of 3
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# एसजेवीएन लिमिटेड

(भारत सरकार और हिमाचल प्रदेश सरकार का एक संयुक्त उद्यम)

विद्युत संविदा विभाग

शनान शिमला हिमाचल प्रदेश -171006

Website: www.sjvn.nic.in, CIN No. L40101HP1988GOI008409

## SECTION- VII: FORMS AND FORMATS

### Format-1

#### Format for Letter of Bid

Ref No. [*Insert your Reference No.*]

Dated: xx.xx.2026

To,

SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

**Subject:** NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”. – NIT Ref No. SJVN/CHQ/ECD/KWPS/2026, dated ---.---.2026

Sir,

- 1.0 I the undersigned, is authorized signatory of [*Insert name of the Firm/Agency/Bidder*] and is competent to sign this declaration and execute this tender document.
- 2.0 We have carefully read and understood all the terms and conditions of the tender document in conjunction with its subsequent Amendment(s)/ Clarification(s)/ Addenda/Errata/ Corrigendum(s), if any, and undertake to abide by them;
- 3.0 The information/documents furnished along with the above Bid are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
- 4.0 We hereby undertake that we have not been banned /de-listed/ black listed / debarred from business by any PSU / Govt. Department during last 03 (three) years on the grounds of corrupt/fraudulent practices or on any other ground.
- 5.0 We [*Insert name of the Firm/Agency/Bidder*] undertake, if our bid is accepted, to commence the

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 1 of 32
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work immediately upon your Letter of Award/GeM Order to us as per provisions mentioned therein, and to achieve Completion of Works within the time stated in the Tender Documents.

- 6.0 We [*Insert name of the Firm/Agency/Bidder*] undertake that we have not submitted more than one bids against the subject cited NIT. We also undertake that we have not joined hands with related parties such as associated firms / partners for submitting the bid in different
- 7.0 We, [*Insert name of the Firm/Agency/Bidder*], confirm our acceptance to all terms and conditions mentioned in the Tender Document Ref No-----dated----- including all subsequent clarifications/ amendment/addendum/corrigendum(s), in totality and withdraw all deviations raised by us, if any.
- 8.0 We [*Insert name of the Firm/Agency/Bidder*] agree to abide by this bid till [90 days from the last date of submission of bids] as stipulated in the Tender Document, and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.
- 9.0 Until a formal Contract is prepared and executed between us, this bid, together with your written acceptance thereof in the form of your Letter of Award/GeM Order shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the Letter of Award.
- 10.0 We understand that you are not bound to accept the lowest or any bid you may receive. We acknowledge the right of the Employer to reject our Bid without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
- 11.0 We understand that you may annul the bidding process and reject all bids or accept or reject any of the bids at any time and that you are neither bound to accept any bid that you may receive nor to invite the Bidders to bid for Works, without incurring any liability to all or any of the Bidders.
- 12.0 We agree and understand that the Bid is subject to the provisions of the Tender Documents. In no case, we shall have any claim or right of whatsoever nature if the Works is not awarded to us or our Bid is not opened.
- 13.0 Attachments to the Letter of Bid:

In line with the requirement of the Tender Documents we enclose herewith the following Attachments to the Letter of Bid:

- i) Format-1: Letter of Bid duly completed and signed by the Bidder, together with all Attachments identified
- ii) Attachment 1:- Certification about Mandatory Information to be required to upload the award details on Central Procurement Portal (CPP) i.e. <https://eprocure.gov.in/cppp>
- iii) Attachment 2: Authorization as per Clause 2.9 of Section II:ITB.
- iv) Attachment 3: Confidentiality Undertaking
- v) Attachment 4: NO DEVIATION CERTIFICATE
- vi) Attachment 5: Bid Security Declaration (if Applicable)
- vii) Attachment- 6: Undertaking in the form of Declaration of Eligibility
- viii) Attachment 7: Self-Certification under Preference to “MAKE IN INDIA” Policy
- ix) Attachment 8: Undertaking in compliance of Ministry of Finance, Government of India order no F. No. 6/18/2019-PPD dated 23.07.2020
- x) Attachment 9: Undertaking fatalities or major accidents
- xi) Format-2: Pre Contract Integrity Pact
- xii) **Format-3:** Duly filled Techno -Commercial Bid Response Sheet (TBRS) together with all attachments/data/documentary evidences in support of fulfilment of Minimum Qualifying requirement.

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 2 of 32
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- a) Copy of Certificates of Incorporation / partnership deeds or any other valid document issued by the respective registrar of firms/companies pursuant to **Clause 3.1.1**
- b) Proof of Bidder's experience of executing the works as per MQR pursuant to Clause 3.1 & 3.2
- c) Proof of Bidder's Average Annual Turn Over / Annual Audited Financial statements for the last three Financial Years (FYs) ending on 31.3.2025 pursuant to clause 3.3.
- d) Undertaking in the form of Declaration of Eligibility as per Attachment- 6 pursuant to clause 3.8.

**xiii) Format 4:** Bank Guarantee (if applicable) or Proof of submission of EMD

**xiv) Format 5:** PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE GUARANTEE

**xv) GST Registration Certificate/PAN**

Date.....

Place.....

(Name & Signature of Authorised Representative  
with Seal/Stamp of Company)

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 3 of 32
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**Attachment-1**

**Proforma for**

**Mandatory Information required to upload the award details on Central Procurement Portal  
(CPP) i.e. <https://eprocure.gov.in/cpp>**

**Subject:** “ NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.

- |     |                                 |  |
|-----|---------------------------------|--|
| 1.  | Company Name                    | <input type="text"/>                         |
| 2.  | Registration Number             | <input type="text"/>                         |
| 3.  | Registered Address              | <input type="text"/>                         |
| 4.  | Name of Partners/ Directors     | <input type="text"/>                         |
| 5.  | Bidder Type : Indian/ Foreign   | <input type="text"/>                         |
| 6.  | City                            | <input type="text"/>                         |
| 7.  | Postal Code                     | <input type="text"/>                         |
| 8.  | Company’s Establishment Year    | <input type="text"/>                         |
| 9.  | Company’s Nature of Business    | <input type="text"/>                         |
| 10. | Company’s Legal Status (Tick ✓) | <input type="text" value="Limited Company"/> |
|     |                                 | <input type="text" value="Undertaking"/>     |
|     |                                 | <input type="text" value="Joint Venture"/>   |
|     |                                 | <input type="text" value="Partnership"/>     |
|     |                                 | <input type="text" value="Others"/>          |

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 4 of 32
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11. Company Category (Tick ✓)

Micro Unit as per MSME

Small Unit as per MSME

Medium Unit as per MSME

Ancillary Unit

Project Affected Person of this Company

SSI

Others

**Contact Details:**

Enter Company's Contact Person Details

Title (Tick ✓)

Mrs.

Mr.

Ms.

Dr.

Shri

Contact Name

Date of Birth (DD/MM/YYYY)

Correspondence Email

Designation

Phone Details e.g. : +91 044  
22272449

+91

Mobile Number

I, the undersigned, Proprietor/Director/authorized signatory of [*Insert name of the Firm/Agency/Bidder*] do hereby solemnly declare and affirm that the details furnished above are true and correct to the best of my knowledge and belief.

Date.....

Place.....

(Name & Signature of Authorised Representative  
with Seal/Stamp of Company)

Section VII	NIT for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra"	Page 5 of 32
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**Attachment-2**

**Bidder shall submit Authorization as per Clause 2.9 of Section II:ITB.**

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 6 of 32
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**Confidentiality Undertaking**

To,

SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

Dear Sir,

Sub: Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.

It is certified, that any and all information provided to [*Insert Name of the bidder*] by SJVN shall be deemed to be Confidential Information (whether marked "confidential" or not) and [*Insert Name of the bidder*] shall safeguard the said Information with a great degree of care to ensure its confidentiality. [*Insert Name of the bidder*] will use such information solely for the purpose for which it was disclosed and will not disclose, distribute, or disseminate the information to any third party (except its own employees on a need to know basis and after ensuring that they are made aware of and undertake to treat all such information as confidential). The period for which such information shall be treated as confidential is 05 (Five) years from the date of its disclosure, irrespective of the period of the agreement or its earlier termination. [*Insert Name of the bidder*] agrees that damages is not an adequate remedy to SJVN in case of any unauthorized disclosure and SJVN shall have full rights to obtain any mandatory or injunctive relief from a Court to enforce this provision of confidentiality.

It is further certified that the reports and other relevant documents, which are to be submitted by [*Insert Name of the bidder*] to the SJVN will not be disclosed to any other agency/person without prior permission of the SJVN and will be treated as strictly confidential.

Seal with Signature of the  
authorized signatory of the bidder

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 7 of 32
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**NO DEVIATION CERTIFICATE**

To,  
SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

Dear Sir,

Sub: No Deviation Certificate regarding Notice Inviting Tender (NIT) for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.

Dear Sir,

We, [Bidder’s name], confirm our acceptance to all terms and conditions mentioned in the Tender Document including all subsequent clarifications/ amendment/addendum/corrigendum(s), in totality and withdraw all deviations raised by us, if any.

.....  
(Seal Signature of the Bidder)

Place :

Date:

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 8 of 32
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**Format for Bid Security Declaration (if Applicable)**

To,  
SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

**Subject: NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.**

I hereby submit a declaration that the bid submitted by the undersigned, on behalf of the bidder [Name of the Bidder], shall not be withdrawn or varied during the period of bid validity

I, on behalf of the bidder,[Name of the bidder], also accept the fact that in case the bid is withdrawn or varied any term & condition in regard hereto during the period of bid validity, except as provided in the bid document or in case of a successful bidder, if we fail within the specified time limit to sign the agreement or we fail to furnish the required performance security or if we adopt the corrupt or coercive or fraudulent practices or commit defaults under integrity pact, then [Name of the Bidder] will be suspended for participation in the tendering process for the works of SJVN Ltd and its subsidiaries and works under other centrally sponsored schemes, for a period of one year from the date of issue of such suspension by the Employer.

Date: (Signature of Authorised Signatory)

Place: (Name)  
(Designation)  
(Common Seal)

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 9 of 32
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**FORM OF DECLARATION OF ELIGIBILITY**

**UNDERTAKING**

To,  
SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

**Subject:** NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.

I / We, M/s .....(Name of Bidder) hereby certify that I / we have not been banned /de-listed/ black listed / debarred from business by any PSU / Govt. Department/Any private Listed Company during last 03 (three) years on the grounds of corrupt/fraudulent practices or on any other ground.

**(Seal & signature of the Bidder)**

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 10 of 32
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**Self-Certification under Preference to “MAKE IN INDIA” Policy**

(On the letter head of the Seller)

**To,**  
**SJVN Limited,**  
**Electrical Contracts Department,**  
**SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla**

**Subject: NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.**

In line with Government Public Procurement Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 and its amendments along with clarifications/amendments and other references as issued from time to time applicable as on the date of submission of tender, we hereby certify that we, .....[Insert name of the Firm/Agency/Bidder].....are local supplier meeting the requirement of minimum Local Content as per below declaration as defined in above orders/circulars/clarifications/amendments for the material/item(s)/service offered against Tender No. ....[Insert Bid/Tender Number along with date]..... .

- (i) The total value of local content addition/manufacturing is .....%
- (ii) Details of location(s) at which local value addition will be made is as follows:  
.....  
.....  
.....

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law

Date.....

Place.....

(Name & Signature of Authorised Representative  
with Seal/Stamp of Company)

**Note:**

In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2024

<b>Section VII</b>	<b>NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”</b>	<b>Page 11 of 32</b>
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**UNDERTAKING**

(On the letter head of the Seller)

**To,**

**SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla**

**Subject: NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.**

**(In compliance of Ministry of Finance, Government of India order no F. No. 6/18/2019-PPD dated 23.07.2020)**

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries.

I certify that ..... [*Insert name of the Firm/ Agency/ Bidder*]....., is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that ..... [*Insert name of the Firm/ Agency/ Bidder*].....fulfils all requirements in this regard and is eligible to be considered.

Note: - Evidence of valid registration by the Competent Authority shall be attached (if applicable)

Date.....

Place.....

(Name & Signature of Authorised Representative  
with Seal/Stamp of Company)

<b>Section VII</b>	<b>NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”</b>	<b>Page 12 of 32</b>
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## Undertaking regarding fatalities or major accidents

To,

SJVN Limited,  
Electrical Contracts Department,  
SJVN Corporate Head Office, Shakti Sadan, Shanan, Shimla

**Subject:** NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.

I / We, M/s .....(Name of Bidder) hereby certify that there is no record of fatalities or major accidents related to our work on wind turbines over the last 3 years.

(Seal & signature of the Bidder)

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 13 of 32
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PRE CONTRACT INTEGRITY PACT

Between

**SJVN Limited** , a company incorporated under the relevant law in the matter and having its registered office at **SHAKTI SADAN, SHANAN, P.O. SANJAULI, SHIMLA, HP-171006**, hereinafter referred to as “The SJVN ” which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns of the **First Part**.

**And**

M/s \_\_\_\_\_ , a company/ firm/ individual (status of the company) constituted in accordance with the relevant law in the matter and having its \_\_\_\_\_ registered \_\_\_\_\_ office \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_ represented by Shri \_\_\_\_\_, hereinafter referred to as “The Bidder/Consultant” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns of the **Second Part**.

WHEREAS the SJVN proposes to procure under laid down organizational procedures, contract/s for NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahmednagar in the State of Maharashtra”.- NIT Ref No. SJVN/CHQ/ECD/KWPS/2026,

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the SJVN to obtain the desired said (work/ goods/ services) at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling the Bidder(s)/Consultant(s) to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the SJVN will

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 14 of 32
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commit to prevent corruption, in any form, by its officials by following transparent procedures.

## **1.0 Commitments of the SJVN**

- 1.1 The SJVN undertakes that no official of the SJVN , connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Bidder/Consultant, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contact.
- 1.2. The SJVN will, during the pre-contract stage, treat all the Bidders/Consultants alike, and will provide to all the Bidders/Consultants the same information and will not provide any such information to any particular Bidder/Consultant which could afford an advantage to that particular Bidder/Consultant in comparison to other Bidders/Consultants.
- 1.3. All the officials of the SJVN will report to the appropriate Authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 1.4 In case any such preceding misconduct on the part of such official(s) is reported by the Bidder to the SJVN with full and verifiable facts and the same is prima facie found to be correct by the SJVN , necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the SJVN or Independent External Monitor and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the SJVN the proceedings under the contract would not be stalled.

## **2.0 Commitments of the Bidder(s)/Consultant(s)**

The Bidder(s)/Consultant(s) commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-

- 2.1 The Bidder(s)/Consultant(s) will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the SJVN , connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

<b>Section VII</b>	<b>NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”</b>	<b>Page 15 of 32</b>
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- 2.2 The Bidder/Consultant further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the SJVN or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with SJVN for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with SJVN .
- 2.3 The Bidder(s)/Consultant(s) shall disclose the name and address of agents and representatives and Indian Bidder(s)/Consultant(s) shall disclose their foreign principals or associates.
- 2.4 The Bidder(s)/Consultant(s) shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract
- 2.5 The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the SJVN or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 2.6 The Bidder/Consultant will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 2.7 The Bidder/Consultant will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 2.8 The Bidder/Consultant shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the SJVN as part of the business relationship, regarding plans, technical proposals and business details, including information contained in electronic data carrier. The Bidder/Consultant also undertakes to exercise due and adequate care lest any such information is divulged.
- 2.9 The Bidder(s)/Consultant(s) commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.10 The Bidder(s)/Consultant(s) shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 2.11 If the Bidder/Consultant or any employee of the Bidder/Consultant or any person acting on behalf of the Bidder/Consultant, either directly or indirectly, is a relative of any of the officers of the SJVN , or alternatively, if any relative of an officer of the SJVN has financial interest/stake in the Bidder(s)/Consultant(s) firm(excluding Public Ltd.

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 16 of 32
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Company listed on Stock Exchange), the same shall be disclosed by the Bidder/Consultant at the time of filling of tender.

The term 'relative' for this purpose would be as defined in Section 2(77) of the Companies Act 2013.

2.12 The Bidder(s)/Consultant(s) shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the SJVN.

2.13. The Bidder/supplier shall follow all rules and regulations of India including statutory requirements like minimum wages, ESIC and EPF.

### **3.0 Previous Transgression**

3.1 The Bidder(s)/Consultant(s) declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect on any corrupt practices envisaged hereunder or with any Public Sector Enterprise / Government Department in India and in \_\_\_\_\_ (SJVN 's country).

3.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

### **4.0 Earnest Money (Security Deposit)**

The provision regarding Earnest Money/Security Deposit as detailed in the Notice Inviting Tender (NIT) and Instruction to Bidders (ITB) section of the Bid Document is to be referred.

### **5.0 Sanctions for Violations**

5.1 Any breach of the aforesaid provisions by the Bidder/Consultant or any one employed by it or acting on its behalf shall entitle the SJVN to take action as per the procedure mentioned in the "**Guidelines on Banning of Business Dealings**" attached as **Annex-A** and initiate all or any one of the following actions, wherever required: -

- (i) To immediately disqualify the bidder and call off the pre contract negotiations without assigning any reason or giving any compensation to the Bidder/Consultant. However, the proceedings with the other Bidder(s)/Consultant(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is Signed) shall stand forfeited either fully or partially, as decided by the SJVN and the SJVN shall not be required to assign any reason thereof.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the Consultant. The Bidder/Consultant shall be liable to pay compensation for any

<b>Section VII</b>	NIT for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra"	<b>Page 17 of 32</b>
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loss or damage to the SJVN resulting from such cancellation/rescission and the SJVN shall be entitled to deduct the amount so payable from the money(s) due to the Bidder/Consultant.

- (iv) To encash the Bank guarantee, in order to recover the dues if any by the SJVN, along with interest as per the provision of contract.
- (v) To debar the Bidder/Consultant from participating in future bidding processes of SJVN, as per provisions of "Guidelines on Banning of Business Dealings" (**Annex-A**), which may be further extended at the discretion of the SJVN.
- (vi) To recover all sums paid in violation of this Pact by Bidder(s)/Consultant(s) to any middleman or agent or broker with a view to securing the contract.
- (vii) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the SJVN with the Bidder/ Consultant, the same shall not be opened/operated.
- (viii) Forfeiture of Performance Security in case of a decision by the SJVN to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.2 The SJVN will be entitled to take all or any of the actions mentioned at para 5.1 (i) to (viii) of this Pact also on the Commission by the Bidder/Consultant or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder/Consultant), of an offence as defined in GFR, Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption in SJVN 's country.

5.3 The decision of the SJVN to the effect that a breach of the provisions of this Pact has been committed by the Bidder / Consultant shall be final and conclusive on the Bidder / Consultant. However, the Bidder/Consultant can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

#### **6.0 Independent External Monitor(s)**

6.1 The SJVN has appointed Independent External Monitor(s) (hereinafter referred to as Monitors) for this Pact.

6.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

6.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

6.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement for which a complaint or issue is raised before them, including minutes of meetings. The right to access records should only be limited to the extent absolutely necessary to investigate the issue related to the subject tender/contract.

<b>Section VII</b>	<b>NIT for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra"</b>	<b>Page 18 of 32</b>
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- 6.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform CMD/CEO/MD of SJVN and request SJVN to discontinue or take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 6.6 The Bidder(s)/Consultant(s) accepts that the Monitor has the right to access without restriction, to all Project documentation of the SJVN including that provided by the Bidder/Consultant. The Bidder/Consultant will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Sub-Consultant(s). The Monitor shall be under contractual obligation to treat the information and documents of the Bidder/Consultant/Sub-Consultant(s) with confidentiality.
- 6.7 The SJVN will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings as and when required.
- 6.8 The Monitor will submit a written report to the CMD/CEO/MD of SJVN within 30 days from the date of reference or intimation to him by the SJVN /Bidder and should the occasion arise, submit proposals for correcting problematic situations.
- 6.9 The word 'Monitor' would include both singular and plural.
- 6.10 In the event of a dispute between the management and the Consultant related to those contracts where integrity pact is applicable, in case both the parties agree, they may try to settle the dispute through mediation before the panel of IEMs in a time bound manner. In case the dispute remains unresolved even after mediation by the panel of IEMs, SJVN may take further action as per the terms and conditions of Contract. Expenses on dispute resolution shall be equally shared by both the parties.

#### **7.0 Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the SJVN or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder/Consultant and the Bidder/Consultant shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

#### **8.0 Law and Place of Jurisdiction**

This Pact is subject to \_\_\_\_\_ (SJVN 's Country) Law. The place of performance and jurisdiction is the Registered Office of the SJVN . The arbitration clause provided in the tender document/contract shall not be applicable for any issue/dispute arising under Integrity Pact.

Section VII	NIT for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra"	Page 19 of 32
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**9.0 Other Legal Actions**

- 9.1 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.
- 9.2 Changes and supplements as well as termination notice need to be made in writing.
- 9.3 If the Consultant is a partnership or a consortium or a joint venture, this pact must be signed by all partners of the consortium/joint venture.

**10.0 Validity**

- 10.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the SJVN and the Bidder/Consultant/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract or six months from the date of opening of price bids, whichever is earlier.
- 10.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intention.

11.0 The Parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_.

SJVN

Bidder

Name:

(Authorised Person)

Designation Dy. General Manager(C&P)

(Name of the Person)

Designation

Place: New Delhi

Place-----

Date: 13.05.2025

Date-----

Witness1.\_\_\_\_\_

Witness1.\_\_\_\_\_

(Name and address)

2.\_\_\_\_\_

2.\_\_\_\_\_

(Name and address)

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 20 of 32
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Guidelines on banning of business dealings

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## Guidelines on Banning of Business Dealings

### 1.0 Introduction

- 1.1 SJVN deals with Agencies viz. parties/ contractors/ suppliers/ bidders, who are expected to adopt ethics of highest standards and a very high degree of integrity, commitments and sincerity towards the work undertaken. It is not in the interest of SJVN to deal with Agencies who commit deception, fraud or other misconduct in the tendering process.
- 1.2 Since banning of business dealings involves civil consequences for an Agency concerned, it is incumbent that adequate opportunity of hearing is provided and the explanation, if tendered, is considered before passing any order in this regard keeping in view the facts and circumstances of the case.

### 2.0 Scope

- 2.1 The Information for Bidders/ Instruction to Bidders and even the General Conditions of Contract (GCC) of SJVN generally provide that SJVN shall have the rights to remove from list of approved suppliers / contractors or to ban business dealings if any Agency has been found to have committed misconduct or fraud or anything unethical not expected from a reputed contractor.
- 2.2 The procedure of (i) Removal of Agency from the List of approved suppliers / contractors; (ii) Suspension and (iii) Banning of Business Dealing with Agencies, has been laid down in these guidelines.
- 2.3 These guidelines shall apply to all the Projects/ Power Stations/ Regional Offices/ Liaison Offices of SJVN including its subsidiaries and JVs.
- 2.4 It is clarified that these guidelines do not deal with the poor performance of the contractors/ Agencies.
- 2.5 The banning shall be with prospective effect, i.e. future business dealings.

### 3.0 Definitions

In these Guidelines, unless the context otherwise requires:

- i) **“Party / Contractor / Supplier / Bidders”** shall mean and include a public limited company or a private limited company, a joint Venture, Consortium, HUF, a firm whether registered or not, an individual, cooperative society or an association or a group of persons engaged in any commerce, trade, industry, etc. **“Party / Contractor/ Supplier / Bidder”** in the context of these guidelines is indicated as **‘Agency’**.
- ii) **“Unit”** shall mean the Project/ Power Station/ Regional Office/ Liaison Office.
- iii) **“Competent Authority”** and **‘Appellate Authority’** shall mean the following:

<b>Section VII</b>	NIT for <b>“Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project”</b> of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	<b>Page 22 of 32</b>
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The concerned Director shall be the 'Competent Authority' for the purpose of these guidelines.

CMD shall be the 'Appellate Authority' in respect of such cases.

- iv) **"Investigating Committee"** shall mean any Officer/Committee appointed by Competent Authority to conduct investigation.
- v) **"List of approved Agencies viz Parties / Contractors / Suppliers/Bidders"** shall mean and include list of Parties/ Contractors / Suppliers / Bidders etc if registered with SJVN .

#### **4.0 Initiation of Banning / Suspension**

Action for banning /suspension business dealings with any Agency shall be initiated by the department responsible for invitation of bids after noticing the irregularities or misconduct on the part of Agency concerned. Besides the concerned department, Vigilance Department of each Unit/ Corporate Vigilance may also be competent to initiate such action.

#### **5.0 Suspension of Business Dealings.**

- 5.1 If the conduct of any Agency dealing with SJVN is under investigation, the Competent Authority may consider whether the allegations (under investigation) are of a serious nature and whether pending investigation, it would be advisable to continue business dealing with the Agency. If the Competent Authority, after consideration of the matter including the recommendation of the Investigating Committee, if any, decides that it would not be in the interest to continue business dealings pending investigation, it may suspend business dealings with the Agency. The order of suspension would operate for a period not more than six months and may be communicated to the Agency as also to the Investigating Committee. The Investigating Committee may ensure that their investigation is completed and whole process of final order is over within such period. However, if investigations are not completed in six months time, the Competent Authority may extend the period of suspension by another three months, during which period the investigations must be completed.
- 5.2 The order of suspension shall be communicated to all Departmental Heads of SJVN (including its subsidiaries and JVs) and Heads of the Units. During the period of suspension, no business dealing may be held with the Agency.
- 5.3 As far as possible, the existing contract(s) with the Agency may continue unless the Competent Authority, having regard to the circumstances of the case, decides otherwise.
- 5.4 If the Agency concerned asks for detailed reasons of suspension, the Agency may be informed that its conduct is under investigation. It is not necessary to enter into correspondence or argument with the Agency at this stage.
- 5.5 It is not necessary to give any show-cause notice or personal hearing to the Agency before issuing the order of suspension.

<b>Section VII</b>	<b>NIT for "Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project" of SJVN's 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra"</b>	<b>Page 23 of 32</b>
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**6.0 Ground on which Banning of Business Dealings can be initiated:**

- 6.1 If the security consideration, including questions of loyalty of the Agency to SJVN so warrants;
- 6.2 If the director /owner of the Agency, proprietor or partner of the firm, is convicted by a Court of Law for offences involving moral turpitude in relation to its business dealings with the Government or any other public sector enterprises, during the last three years.
- 6.3 If business dealings with the Agency have been banned by the Department of Power, Government of India and the relevant government department of SJVN 's Country.
- 6.4 If the Agency has resorted to corrupt, fraudulent practices including misrepresentation of facts;
- 6.5 If the Agency uses intimidation / threatening or brings undue outside pressure on SJVN or its official for acceptance / performances of the job under the contract;
- 6.6 If the Agency misuses the premises or facilities of SJVN , forcefully occupies or damages SJVN 's properties including land, water resources, forests / trees or tampers with documents/records etc. (Note: The examples given above are only illustrative and not exhaustive. The Competent Authority may decide to ban business dealing for any good and sufficient reason).

**7.0 Banning of Business Dealings**

- 7.1 A decision to ban business dealings with any Agency shall apply throughout SJVN including its subsidiaries/JVs.
- 7.2 There will be an Investigating Committee consisting of officers not below the rank of AGM/DGM from Indenting Division, Finance, Law and Contracts. Member from department responsible for invitation of bids shall be the convener of the committee. The functions of the committee shall, inter-alia include:
  - i) To study the report of the unit/division responsible for invitation of bids and decide if a prima-facie case for banning exists, if not, send back the case to the Competent Authority.
  - ii) To recommend for issue of show-cause notice to the Agency by the concerned unit/division as per clause 9.1.
  - iii) To examine the reply to show-cause notice and call the Agency for personal hearing, if required.
  - iv) To submit final recommendations to the Competent Authority for banning or otherwise.

**8.0 Removal from List of Approved Agencies - Suppliers/ Contractors, etc.**

- 8.1 If the Competent Authority decides that the charge against the Agency is of a minor nature, it may issue a show-cause notice as to why the name of the Agency should not be removed from the list of approved Agencies - Suppliers / Contractors, etc.

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 24 of 32
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- 8.2 The effect of such an order would be that the Agency would not be qualified for competing in Open Tender Enquiries or Limited Tender Enquiries till the period mentioned in the order.
- 8.3 Past performance of the Agency may be taken into account while processing approval of the Competent Authority for award of the contract.
- 9.0 Show-cause Notice**
- 9.1 In case where the Competent Authority decides that action against an Agency is called for, a show-cause notice has to be issued to the Agency, Statement containing the imputation of misconduct or misbehaviour may be appended to the show-cause notice and the Agency should be asked to submit within 15 days a written statement in its defense.
- 9.2 If the Agency requests for inspection of any relevant document in possession of SJVN , necessary facility for inspection of documents may be provided.
- 9.3 The Competent Authority may consider and pass an appropriate speaking order:
- a) For exonerating the Agency if the charges are not established;
  - b) For removing the Agency from the list of approved Suppliers / Contactors, etc.
  - c) For banning the business dealing with the Agency.
- 9.4 If it decides to ban business dealings, the period for which the ban would be operative may be mentioned.
- 10.0 Appeal against the Decision of the Competent Authority**
- 10.1 The Agency may file an appeal against the order of the Competent Authority banning business dealing etc. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the date of receipt of the order banning business dealing, etc.
- 10.2 Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the Agency as well as the Competent Authority.
- 11.0 Circulation of the names of Agencies with whom Business Dealings have been banned**
- i) The concerned unit shall forward the name and details of the Agency(ies) banned to IT&SC Division of SJVN's Corporate Office for displaying the same on SJVN website.
  - ii) Corporate Contracts Department shall also forward the name and details of the Agency(ies) banned to the Ministry of Power, GoI besides forwarding the name and details to the contracts/procurement group of all CPSUs of power sector.

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 25 of 32
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## FORM OF DECLARATION OF ELIGIBILITY

### UNDERTAKING

I / We, M/s .....(Name of Bidder) hereby certify that I / we have not been banned /de-listed/ black listed / debarred from business by any PSU / Govt. Department during last 03 (three) years on the grounds mentioned in para 6 of Guidelines on banning of Business dealing (Annex-A to Pre-Contract Integrity Pact) of Tender Document.

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 26 of 32
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**Proforma for Techno-Commercial Bid**

**(The Techno-Commercial Bid Response Sheet (TBRS) must be submitted on GeM Portal)**

**Techno-Commercial Bid Response Sheet No. 1 (TBRS-1)**

Sl. NO.	Document to be Submitted	Bidder's Response
		Ref of the Document submitted along with Page Nos.
1.	<b>Name of Bidder/Service Provider</b>	
2.	<b>Date of Incorporation/Establishment and Registration No.</b>	
3.	<b>Nature of the Bidder/Service Provider</b> :(i.e., Proprietary, Registered Partnership Firm, Company or Corporate body legally constituted <b>and Registration No.</b>	
4.	<b>Details of Authorised Representative(s):</b> Name: Designation:	
5	Telephone/Mobile No.:	
6.	Details of EMD	
7.	<b>Format 1:</b> Letter of Bid	
8	<b>Attachment-1:</b> Certification about Mandatory Information to be required to upload the award details on Central Procurement Portal (CPP)	
9	<b>Attachment 2:</b> Authorisation as per Clause 2.9 of Section II:ITB.	
10	<b>Attachment 3:</b> Confidentiality Undertaking	
11	<b>Attachment 4:</b> NO DEVIATION CERTIFICATE	
12	<b>Attachment 5:</b> Bid Security Declaration (if Applicable)	
13	<b>Attachment 6:</b> Undertaking for declaration of Eligibility	

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 27 of 32
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14	Attachment 7: Self-Certification under Preference to “MAKE IN INDIA” Policy	
15	Attachment 8: Undertaking in compliance of Ministry of Finance, Government of India order no F. No. 6/18/2019-PPD dated 23.07.2020	
16	Attachment 9: Undertaking fatalities or major accidents	
17	Format-2: Pre Contract Integrity Pact	
18	<b>Format-3:</b> Duly filled Techno -Commercial Bid Response Sheet (TBRS) together with all attachments/data/documentary evidences in support of fulfilment of Minimum Qualifying requirement	
	Data/Documentary Evidences in support of the Minimum Qualifying Requirements (MQR) as per Clause 3.1 a) Proof of Bidder’s experience of work as per MQR pursuant to Clause 3.1, 3.2 & 3.4 b) Proof of Bidder’s Average Annual Turn Over / Annual Audited Financial statements for the last three Financial Years (FYs) ending on 31.3.2025 pursuant to clause 3.3 c) Undertaking in the form of Declaration of Eligibility as per Attachment- 6 pursuant to clause 3.8.	
19	GST Registration Certificate & PAN	
20.	Proof of submission of EMD	
11.	Any other additional information/Document(s) pertaining to this tender except price content, if any	

**Signature of the authorized person**  
**Full name of the applicant**  
**Stamp & Date**

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 28 of 32
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## Format-4

### (Bank Guarantee Format for Earnest Money)

((To be stamped in accordance with Stamp Act)

Bank Guarantee No. ....

Date .....

To

[Designation  
Address of Tender Inviting Authority]

Dear Sir,

In accordance with Notice Inviting Tender (NIT) No. ...., M/s.....  
having its Registered /Head Office at ..... (hereinafter called the 'Bidder')  
wish to participate in the said bid for [Name of contract  
Package].....

As an irrevocable bank guarantee against Bid Security for an amount of ..... (\*)  
..... valid up to (@) ..... required to be submitted by the Bidder as a  
condition precedent for participation in the said bid which amount is liable to be forfeited on  
the happening of any contingencies mentioned in the Tender Documents issued vide above  
referred NIT.

We, the ..... [Name & Address of the  
Bank] ..... having our Head Office at  
..... (#) ..... guarantee and undertake to pay  
immediately on demand by ..... [Name of the Employer] .....  
the amount of ..... (\*) ..... without any reservation, protest, evidence,  
demand and recourse. Any such demand made by the 'Employer' shall be conclusive and  
binding on us irrespective of any dispute or difference raised by the Bidder in any Court,  
Tribunal, Arbitrator or any other authority

This Guarantee shall be irrevocable and shall remain valid up to ..... (@) ..... if any further  
extension of this guarantee is required, the same shall be extended to such required period (not  
exceeding one year) on receiving instructions from M/s.....  
..... On whose behalf this guarantee is issued.

Our liability under the captioned guarantee is restricted to Rs..... (Rupees in  
words.....) and the guarantee will remain in force up to and including the date ..... (date of  
validity) ..... and unless the claim under the guarantee is made on us before the date

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 29 of 32
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..... (within 30 days beyond the validity date), all your rights under the said guarantee shall be forfeited and we shall be released and discharged from all liabilities thereafter.

In witness whereof, the Bank, through its authorized officer, has set its hand and stamp on this ..... day of ..... 2025 ..... at .....

WITNESS

.....	.....
(Signature)	(Signature)
.....	.....
(Name)	(Name)
.....	.....
(Official Address)	(Designation with Bank Stamp)
	Power of Attorney No. ....
	Date .....

- NOTE:
1. (\*) The amount shall be as specified in NIT
  - (@) This shall be 90 days beyond the validity of the bid
  - (#) Complete mailing address of the Head Office of the Bank to be given
2. The Stamp Paper of appropriate value shall be purchased in the name of guarantee issuing Bank.
  3. The original bank guarantee against the bid security /EMD should be sent to SJVN Ltd. directly under Regd. Post (A.D.) by the issuing bank / branch. Where the original bank guarantee against EMD is handed over to the bidder, the bidder shall ensure that a copy of the bank guarantee against bid security/EMD duly signed by the authorized representative of the issuing bank along with covering letter has been sent immediately by the issuing bank/branch under Regd. Post (A.D.) directly to SJVN Ltd.
  4. The bank guarantee shall be issued by any Scheduled Bank / Nationalized Bank.
  5. **Bank Guarantee shall be effective only when the BG issuance message is transmitted by the issuing bank through SFMS to Employer i.e. SJVN Ltd. designated bank.**

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 30 of 32
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**PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE GUARANTEE**

(To be stamped in accordance with Stamp Act)

Bank Guarantee No. ....

Date .....

To

*[Employer's Name & Address]*

Dear Sir,

In consideration of the ..... *[Employer's Name]* ..... (Hereinafter referred to as the 'Employer,' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and assigns) having awarded to M/s. .... *[Contractor 's Name]* ..... with its Registered/Head Office at ..... (Hereinafter referred to as the ' Contractor ', which expression shall unless repugnant to the context or meaning thereof, include its successors administrators, executors and assigns), a Contract by issue of Employer's Letter of Award/GeM Order No. .... dated ..... and the same having been unequivocally accepted by the Contractor, resulting in to a contract Valued at ..... for ..... and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to .... (\*) .... % (..... percent) of the said value of the Contract to the Employer.

We ..... *[Name & Address of the Bank]* ..... Having its Head Office at ..... (Hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Employer, on demand any and all monies payable by the Contractor to the extent of ..... (\*) ..... as aforesaid at any time upto ..... (@) ..... *[days/month/year]* without any demur, reservation, context, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Employer on the Bank shall be conclusive and binding notwithstanding any difference between the Employer and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes that the guarantee shall be irrevocable and valid till the completion of faithful performance of the Contract to the satisfaction of the Employer and/ or the Employer in writing discharges the Guarantee.

The Employer shall have the fullest liberty, without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of the Contract by the Contractor. The Employer shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Employer and the Contractor or any other course or remedy or security available to the Employer. The Bank shall not be released of its obligations under these presents by any exercise by the Employer of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission of commission on the part of the Employer or any other indulgence shown by the Employer or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

Section VII	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 31 of 32
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The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to ..... (\*) ..... and it shall remain in force upto and including ..... (@) ..... and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s..... [Contractor's Name] ..... on whose behalf this guarantee has been given.

Dated this ..... day of ..... 202..... at .....

WITNESS

<p>.....</p> <p>(Signature)</p> <p>(Name) .....</p> <p>.....</p> <p>(Official Address)</p>	<p>.....</p> <p>(Signature)</p> <p>(Name)</p> <p>.....</p> <p>(Designation with Bank</p> <p>Stamp)</p> <p>Attorney as per Power of</p> <p>Attorney No.....</p> <p>Dated .....</p>
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- Notes: 1. (\*) This sum shall be 5% of the Total Contract Price (excluding GST).
- (@) This date will be Ninety (90) days beyond the Defect Liability Period period as specified in the Contract.
2. The Stamp Paper of appropriate value shall be purchased in the name of guarantee issuing Bank.
  3. The original bank guarantee against the CPG should be sent to SJVN Ltd. directly under Regd. Post (A.D.) by the issuing bank / branch. Where the original bank guarantee against CPG is handed over to the bidder, the bidder shall ensure that an un-stamped duplicate copy of the bank guarantee against CPG along with covering letter has been sent immediately by the issuing bank/branch under Regd. Post (A.D.) directly to SJVN Ltd. at the address of Tender Inviting Authority.
  4. The bank guarantee shall be issued by any Scheduled Bank /Nationalized Bank in India.
  5. **Bank Guarantee shall be effective only when the BG issuance message is transmitted by the issuing bank through SFMS to designated SJVN Ltd bank.**

<b>Section VII</b>	NIT for “Repair, Restoration, Commissioning, and Testing of 5 Nos. Wind Turbines of Khirvire WPS, SJVN Ltd., and Remedial Work for all 56 WTGs, Unit Substations (USS), Pooling Substation (PSS), Feeder Lines, etc. in the Project” of SJVN’s 47.60 MW (56 x850 kW) Khirvire Wind Power Station (KWPS) at Khirvire/Kombhalne site, District Ahilyanagar in the State of Maharashtra”	Page 32 of 32
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## SECTION - VIII: BILL OF QUANTITIES

**Part A: Repair & Restoration, commissioning and testing of 5 no. WTGs including supply of material and services.**

### 1. Material:

SI	WTG	Material Required	QTY	UOM	Unit Rate (Excl GST)	Total Rate (Excl GST)	Rate of GST	Amount of GST	Total Amount (Incl. GST)
1	GKA-09	IGBT Cooling fan Part No: AFB0724VHD, DC 24V,0.27A, 230V,50Hz,0.51KW,2720RPM, 2.2,Amp,10micro farad/400V	3	PC					
2	GKA-09	FG006 MS325-4 Manual Motor Starter 2.5 -4.0 A 690V	1	PC					
3	GKA-09	FM001 Thermal Magnetic Circuit Breaker, Miniature, C Curve, System Pro M Compact S200, 10 A, 2 Pole_ ABB	1	PC					
4	GKA-09	FG008- ABB Make,DIN Rail 65A AC Chint NC1-6511 3P 240V Contactors SACE S7H,Iu-1250,Ue-690,IEC 947-2 CEI EN 60947-2	1	PC					
5	GKA-09	External cooling fan 220V AC 4-inch Metal Body Axial Fan AC cooling Fan Panel Fan 4" Brushless Blower 38 mm Exhaust Fan (black)	1	PC					
6	GKA-09	Relay-	EACH-01	PC					
		KR013B- AC relay- 230V, 10A							
		KR020- DC relay- 24V, 6A							
		KR030- AC relay- 230V, 10A							
		KR081- AC relay- 230V, 10A							
		KR0701- DC relay- 24V, 6A							
		KR702- DC relay- 24V, 6A							
7	GKA-09	ABB A26-30-10 220- 230V 50Hz / 230-240V 60Hz Contactor - 1SBL241001R8010	1	PC					
8	GKA-09	PLC- PHONIX contact PLC RFC 430 ETH-IB, PL-100	1	PC					
9	GKA-09	Converter control unit (CCU) with connector	1	PC					
10	GKA-09	ROTOR SKIP G58 Non-ESS Rotor IGBT Module SKS 1600W B2CI 1600	3	PC					
11	GKA-09	FG003- MO325- 690V, 0-4A Manual Motor Starter Magnetic Only	1	PC					

12	GKA-09	CrowBAR IGBT PCB, Ingteem SNUBBER PARA IGBT DE SMART CROWBAR DE 1 1700V AK9775 + Card GEOL V1.3 IGBT DRIVER 1000A	1	PC					
13	GKA-09	Semikron Grid Skiip Module 13AC126V1,M21 IGBT Module( 613 GD123-3DUK1195)	1	PC					
14	GKA-09	Gear OIL Gear Oil Mobilgear SHC XMP 320	120	Ltr					
15	GKA-09	Generator metal 3 phase carbon brush (Merson)	12	PC					
16	GKA-09	Generator carbon brush- Earthing CBC 2.6Inch (Merson)	1	PC					
17	GKA-09	MTA07904155, 0.85MW Slip Ring Gamesa – Morteng	1	Set					
18	GKA-09	AO2 Module, Anemometer PLC module, MODULE DIGITAL INPUTS PLC M251 ACC PHOIB.	1	PC					
19	GKA-09	EPR 70sqmm 3core 0.6/1KV, armor cable- IEC-60502/ IS-6380, Flexible class-5 POLY CAB	150	Mtr					
20	GKA-09	CT358 – 70 SQ.MM COPPER HEAVY DUTY LUGS HOLE-10.5	12	PC					
21	GKA-09	Generator Encoder with coupler- Baumer Hubner Encoder 3 Phase Sensor Type Stainless Steel frequency 50H Voltage 220V	1	PC					
22	GKA-09	Grid capacitor TDK, Phase cap 16.6 $\mu$ F 800 V AC rms	3	PC					
23	GKV-04 & 28.2	Generator Bearing- 6326C3, Deep groove ball bearing (DE & NDE Both set)	4	PC					
24	GKA67	IGBT Cooling fan Part No: AFB0724VHD, DC 24V,0.27A, 230V,50Hz,0.51KW,2720RPM, 2.2,Amp,10micro farad/400V	3	PC					
25	GKA67	FG008- ABB Make,DIN Rail 65A AC Chint NC1-6511 3P 240V Contactors SACE S7H,Iu-1250,Ue-690,IEC 947-2 CEI EN 60947-2	1	PC					
26	GKA67	CrowBAR IGBT PCB, Ingteem SNUBBER PARA IGBT DE SMART CROWBAR DE 1 1700V AK9775 + Card GEOL V1.3 IGBT DRIVER 1000A	1	Set					
27	GKA67	ABB A26-30-10 220- 230V 50Hz / 230- 240V 60Hz Contactor - 1SBL241001R8010	1	PC					
28	GKA67	FG006 MS325-4 Manual Motor Starter 2.5 -4.0 A 690V	1	PC					

29	GKA67	Power Supply UU103, PSU - U -103 - 159	1	PC					
30	GKA67	Hydraulic Seals (DHS/DA22)DA22 901006, Trelleborg	3	PC					
31	GKA67	Trelleborg RU6300900- Z20, 90 mm U-cup seal incl. O-ring,  Trelleborg	3	PC					
32	GKA67	Gear OIL Gear Oil Mobilgear SHC XMP 320	120	Ltr					
33	GKA67	SKF LGHP 2 High Performance High Temp Bearing Grease	8	KG					
34	GKA67	Kluberplex BEM 41-141	6	KG					
35	GKA67	Generator metal 3 phase carbon brush (Merson)	12	PC					
36	GKA67	Generator carbon brush- Earthing CBC 2.6Inch (Merson)	1	PC					
37	GKA67	Generator Bearing- 6326C3,Deep groove ball bearing	2	PC					
38	GKA67	Aftec 300 Sqmm 3 Core Cable Gland	3	PC					
39	GKA67	Motor 3 p.50Hz 400-690V (Leroy somer)	2	PC					
40	GKA67	Yaw Motor 2.2 KW ,690V AC,50Hz,1440 RPM,3 Amp	1	PC					
41	GKA67	Semikron Grid Skiip Module 13AC126V1,M21 IGBT Module( 613 GD123-3DUK1195)	1	PC					
42	GKA67	ROTOR SKIP G58 Non-ESS Rotor IGBT Module SKS 1600W B2CI 1600	3	PC					
43	GKA67	DEHNguard DG MOD 275 Surge Protection	1	PC					
44	GKA67	Relay-	EACH-01	PC					
		KR013B- AC relay- 230V, 10A							
		KR020- DC relay- 24V, 6A							
		KR030- AC relay- 230V, 10A							
		KR081- AC relay- 230V, 10A							
		KR0701- DC relay- 24V, 6A							
KR702- DC relay- 24V, 6A									
45	GKA67	4 Digits LED Display Two Way Switch and 4-20mA Output Digital Level Steam Oil Pressure Switch	1	PC					
46	GKA67	Electricals' Solution Single Compression Brass Cable gland (35 MM (1.3/8 Inch)	8	PC					
47	GKA67	Generator Encoder with coupler- Baumer Hubner Encoder 3 Phase Sensor Type Stainless Steel frequency 50H Voltage 220V	1	PC					
48	GKA67	FG010-ABB 3P, Trip Class 10, MS325, 4kA/690V, 12.5- 16A	1	PC					

49	GKA67	FG003- MO325- 690V, 0-4A Manual Motor Starter Magnetic Only	1	PC					
50	GKA67	FG001 ABB MO325 690V, 0.4A AC3, 3.0-4.8A, 3Pole with 1NO, 1NC,	1	PC					
51	GKA67	Auxiliary transformer -690/230V ,1 phase,7 KVA,30,4 A,BOIGE et VIGNAL-LYON FRANCE	1	PC					
52	GKA67	Rotor inductor L002 0.1 mH/400A	1	PC					
53	GKV-05	KM052 ABB/EATON DIL M500 XTCE500M 3POLE 800A MAGNETIC.	1	PC					
54	GKV-05	Semikron Grid Skiip Module 13AC126V1,M21 IGBT Module( 613 GD123-3DUK1195)	1	PC					
55	GKV-05	Gear Oil Mobilgear SHC XMP 320	120	Ltr					
56	GKV-05	FG008- ABB Make,DIN Rail 65A AC Chint NC1-6511 3P 240V Contactors SACE S7H,Iu-1250,Ue-690,IEC 947-2 CEI EN 60947-2	1	PC					
57	GKV-05	Blade Slew Bearing SKF_4-point ball bearing, double row.R KS.062.20.1094, (Blade bearing Gamesa P710023)	3	PC					
58	GKV-05	Set of hardware- rotor blade, M24*24MM, 10.9GRADE, HV Hardware qty 56	3	Set					
59	GKV-05	Set of hardware- Pitch Slew bearing 1)m24*180mm, 10.9Grade, HV Hrrardware Qty 129, 2)M24*190MM 10.9Grade HV Hradware Qty 12	1	Set					
60	GKV-05	Set of hardware- rotor disc M33*260MM, 10.9Grade, HV Hardware Qty 30pcs	1	Set					
61	GKV-05	KASKF LGHP 2 High Performance High Temp Bearing Grease	8	KG					
62	GKV-05	Kluberplex BEM 41-141	6	KG					
<b>Sub Total of part A.1 (Material)</b>									

## 2. Services:

SI	WTG	Services Required	QTY	UOM	Unit Rate (Excl GST)	Total Rate (Excl GST)	Rate of GST	Amount of GST	Total Amount (Incl. GST)
1	GKA-09	Repair & replacement of Slip Ring Body and 0.85MW DFIG Generator and associated works.	1	LS					
2	GKA-09	Replacement of Rotor power cable (2Nos i.e 150mtr of total length) from bottom to top.	1	LS					

3	GKV-04 & 28.2	Installation and services replacement Generator Bearing- (DE & NDE Both set)	2	LS					
4	GKA67	Trouble shooting to identifying the RCA and rectification, Repair & replacement - 0.85MW DFIG Generator stator winding	1	LS					
5	GKA67	Installation and services replacement Generator Bearing- (DE & NDE Both set)	1	LS					
6	GKV-05	Replacement - all three Blade Slewing ring Bearing	1	LS					
<b>Sub Total of part A.2 (Service)</b>									
<b>Total Cost of Part A (Materials + Services)</b>									

**Part B: Remedial works for all 56 WTGs, USS, PSS, Feeder lines & whole project.**

**1. Material**

Sr No	Material/ item Description	Technical Specifications	Component Sub-Description (No's WTG)	Qty. Req.	UOM	Unit Rate (Excl GST)	Total Rate (Excl GST)	Rate of GST	Amount of GST	Total Amount (Incl. GST)
1	Grease	SKF LGHP 2 High Performance High Temp Bearing Grease	Main Bearing (30 Nos.)	236	Kgs.					
		Klüberplex BEM 41-141	Generator Bearing DE& NDE	68	Kgs.					
			(40 Nos.)							
		Shell Gadus S2 V 220	Yaw inner Grease (5 Nos)	100	Kgs.					
		Klüberplex 41-461	Yaw outer Grease (5 Nos)	30	Kgs.					
		Shell Rhodina Grease	Pitch Bearing (8 Nos)	125	Kgs.					
2	Gear Oil	Gear Oil Mobilgear SHC XMP 320	Gearbox (19 Nos)	1140	Ltr					
3	Transformer Oil	HP Power Oil Transformer Oil, 335	USS Yard (34 Nos)	680	Ltr					
4	Hydraulic Oil	Shell Tellus S2 V 32 Hydraulic Oil	HPU (1 Nos.) & Refer to Hose pipe leakage of WTG	418	Ltr					
5	Corrosion Treatment	7007 cold galvanizing compound Stanvac®	Tower H/w (8Nos), Structure Joints	10	Ltr					
6	Hardware Cap	Black Hexagon Nut Bolt Protection Sleeve Screw Cap M36	Tower Bottom outside H/w (11 Nos)	165	PC					
		2x9W Emergency LED Tube Light Fixture	Tower Shell light (55 Nos)	284	PC					

7	Illumination Lights	2x 7W LED IP65 Tube light	Nacelle Light (35 Nos)	100	PC					
		Forus LED Street Light 60W	HT Yard Light (49 Nos)	98	PC					
		36Watt Bottom Opening Clean Room LED Light	Flood Light (PSS)	16	PC					
		SESUFL80W IP 65 80W Led Flood Light	Flood Light (PSS)	16	PC					
8	Aviation Lamp	Aviation Obstruction Light L-864,24VDC Blinking Lamp	Nacelle Aviation Lamp (46 Nos)	46	PC					
9	Gearbox Oil Hose Pipe	Parker 492-16-RL Pressure hose DN 25 mm 110 - 4.5ft with 7"CT	Gearbox (52 Nos)	104	PC					
10	Pitch Oil Hose Pipe	EN 853 2SN-16mm (5/8inch)x2W Exceeds Safe 100 R2AT WP 250 Bar / 4.9"ft, 3625PS0BP with CT	Pitch cylinder hose pipe (25 Nos)	50	PC					
11	FG008 Main Contactor	ABB AF750-30-11-70 3 Phase Contactor, 1SFL637001R7011	Power Panel (33)	33	PC					
12	MPCB	ABB MPCB 16A, 50Hz, 174 x 70 x 165 mm	Power Panel (3 Nos)	9	Pc					
13	MCB	Miniature Circuit Breaker, SB204 M-D4, SB204 M D, 4A, ABB	Power Panel (1 Nos)	1	PC					
14	Protection Fuse	Fuse FF001 DAC 40A 22x58 690V	Power Panel (1 Nos)	3	PC					
15	CCU Contactor	CCU contactor - Schneider Electric LC1D32	Power Panel (1Nos)	1	PC					
16	Cooling fan Exhaust motor	220V AC 4 inch Metal Body Axial Fan AC Cooling Fan Panel Fan 4" Brushless Blower 38 mm Exhaust Fan (Black)	Power Panel (2 Nos)	2	PC					

17	Dehn Guard	DEHNguard DG MOD 275 Surge Protection	NC Panel (1Nos)	5	PC						
18	Relay – Finder	Finder Flange Mount Relay, 12V ac Coil, 10A Switching Current	Bottom Panel (2Nos)	3	PC						
19	Relay - Phoenix	24VDC,5A Phoenix Contact Relay	Nacelle control panel (4 Nos)	7	PC						
20	Relay - Phoenix	RELAYPLC RSC-24DC/21 1CO 2966171 PHOENIX	NC Yaw (2Nos)	2	PC						
21	Crowbar IGBT PCB	Ingeteam SNUBBER PARA IGBTs DE SMART CROWBAR DE 1 1700V AK9775	Power Panel (1 Nos)	1	PC						
22	Contactor	ABB A26-30-10 220-230V 50Hz / 230-240V 60Hz Contactor - 1SBL241001R8010	Bottom Control Panel (5 Nos)	5	PC						
23	RTD Module	IB IL RTD 4/PT100-ECO tempertuare module	SMP12C NC Panel (2 Nos)	2	PC						
24	Contactor	A50-30-00 220-230V 50Hz / 230-240V 60Hz Contactor	Control Panel (1 Nos)	1	PC						
25	Gearbox Oil Filter	1300R010BN4HC/V-B4-KE50 2200R010BN4HX-KE50 2600R010	Gearbox offline Filter (4 nos)	4	PC						
26	Gearbox Oil Filter	1.06.30D06BN-KE50 1.06.30D12BN-KE50	Gearbox online Filter (3 nos)	3	PC						
27	Panel Filter	RS PRO Pad Filter G3 Grade 1.6x1 m	Genertor panel, CC, PC (24Nos)	20	Mtr						
28	Silica Gel GB	Hydac Air Breather unit	Gearbox Breather (3Nos)	3	PC						
29	Hydraulic System	1.4L Nitrogen Charged Hydraulic Diaphragm Accumulator	N2, Accumulator (1 Nos)	1	PC						

30	24V emergency switch	Emergency Stop Switches / E-Stop Switches DPST-NC RED 24V 30mm IP65 Illuminate	NC Panel (2Nos)	5	PC						
31	3M Tape	3M High Temperature Aluminum Foil Tape 433L	Tower, Nacelle	42	PC						
32	Brake calliper seal	Hydraulic Seals (DHS/DA22)DA22 901006, Trelleborg	Yaw disc brake calliper – Seal (7 Nos)	7	PC						
33		Trelleborg RU6300900-Z20, 90 mm U-cup seal incl. o-ring, set of 10 pcs   Trelleborg	Yaw disc brake calliper - Seal (7 Nos)	7	PC						
34	Cable Clamp	Polyerubb C Profile Sandwich Cable Clamp	Power Cable (4Nos)	80	PC						
35	Power Cable Loop Cover	Cable drip loop cover of rubber sheet	T4 Platform (1Nos)	2.3	Mtr						
36	Cable Gland	19 mm (3/4 inch) Brass HMI Double Compression Cable Glands	Windvane Cable (1 Nos)	2	PC						
37	Cable gland casing set	2.5 inch Brass Cable Glands	LT cable (1Nos)	3	PC						
38	Cable shocks	2 Core OPGW SINGLEND CABLE GRIPER/ SHOCK, Armoured, 20 m	Tower Power Cable (4Nos)	19	PC						
39	Cable sleeve	Heat Shrink Tubing, Semi Rigid 1.500" (38.10mm) 3 to 1 Black 4.00' (1.22m)	LT panel (1Nos)	2	Mtr						
40	Cable Tie	IBCab Self Locking Nylon Cable Ties Black 300x4.8 mm (Pack of 1000)	Tower (48Nos)	4	Packet						

41	Cable Tie	Black RRP 200x3.6 Mm Nylon Cable Tie, For Locking, Packaging Size: 100 Pcs	Bottom Panel (14 Nos)	7	Packet						
42	Cleaner	AC-90 Multipurpose Lubricant Spray 500ml,	Tower (13 Nos)	22	Ltr						
43	Coupling GB Motor	HRC Star Couplings	GB Pump Motor (2Nos)	2	PC						
44	Coupling Cover	Radex-N Coupling Casing	GB Coupling (2Nos)	2	PC						
45	Door Lock	Godrej Mortise Door Lock Handle Set   175mm ELC 06   6-Lever Locking	Entry Door (2Nos)	2	PC						
46	Earthing strip	G.I Earthing Strip 50 x 6 mm, 3mm Thickness	Tower Door (4Nos)	4	PC						
47	Fire blanket	Aluminized Fire Blanket,24 inches to 48 inches	Rotor Disc (4 Nos)	8	PC						
48	Fire extinguisher - Testing and refilling WTG	4.5 KG Co2 Fire Extinguisher (Stored Pressure) - Testing	Tower Shell Bottom (55 Nos)	55	PC						
		4.5 KG Co2 Fire Extinguisher (Stored Pressure -Refilling	Tower Shell Bottom (55 Nos)	55	PC						
	Fire extinguisher WTG	Safepro 4.5kg Carbon Dioxide Gas Fire Extinguisher Cylinder	Tower Shell Bottom (1 Nos)	1	PC						
Fire extinguisher - Testing and refilling - WTG	2 KG ABC Fire Extinguisher - Testing	Nacelle (53Nos)	53	PC							
	2 KG ABC Fire Extinguisher - Refilling	Nacelle (53Nos)	53	PC							

49	Fire extinguisher – WTG	2 KG ABC Fire Extinguisher (MAP 50 Based Portable Stored Pressure)	Top & bottom (4 Nos)	4	PC					
	Fire extinguisher - Testing and refilling PSS	4.5 KG BC, Co2 Fire Extinguisher	CR, PLCC, ACDB Room (6Nos)	6	PC					
		6 KG BC, Co2 Fire Extinguisher (3Nos)	Feeder Bays (3Nos)	4	PC					
		9 Kg BC, Co2 Fire Extinguisher (1Nos)	Battery Room - (1Nos)							
		22.5 KG BC, Co2 Fire Extinguisher	Power T/f. (2 Nos)	2	PC					
		9 Kg BC, DCP Fire Extinguisher (1Nos)	Kitchen, st. T/f. (2Nos)	2	PC					
		75 KG BC, DCP Fire Extinguisher	Power T/f. (2 Nos)	2	PC					
		6 KG, ABC DP Fire Extinguisher	Main door, Battery Room (2 Nos)	2	PC					
		9 Ltr, Water A Fire Extinguisher	PPEs, ED (2Nos)	2	PC					
		9 KG, Foam type BC Fire Extinguisher	BOP, SS (2Nos)	2	PC					
Fire extinguisher WTG	Kanex 6 Kg SBC Portable Cartridge DCP Fire Extinguisher,	WTG side	4	PC						
50	First Aid Box Kit	THADANI_First Aid Kit 5000 Series Pack Of 1 Piece	WTG	56	PC					
51	Flap Motor	Ac Flap Motor	Nacelle (1Nos)	1	PC					
52	Generator Bearing	6326C3, Deep groove ball bearing	Nacelle (1 Nos)	2	PC					
53	Flap motor cover	R1250GS R 1250 GS, Flap Cover R22	Nacelle (2Nos)	2	PC					

54	Flap Slider Sensor	Analog Sensor 5V Slider Slide Potentiometer Position Sensor V1.0 for Arduino DIY	Nacelle (2Nos)	2	PC						
55	Foot Rest Holder	Miller Honeywell FPH_23724 Glideloc Foldable Ladder Foot Rest	Ladder T2 (1Nos)	1	PC						
56	FRP Cover	FRP Hub cover for windmill, G58 N	Hub (3 Nos)	3	PC						
57	Gb Rubber support	Dynemech Green Anti Vibration Pads(Damper), Series Dhs5	Mounting Pad (14Nos)	27	PC						
58	Cable gland	Aftec 300 Sqmm 3 Core Cable Gland	Bottom panel (7Nos)	16	PC						
59	Cable gland	Electrical's Solution Single Compression Brass Cable gland (35 MM (1.3/8 Inch)	Generator PC (10 Nos)	72	PC						
60	Grease collecting bottle	NT/EV90001, GREASE COLLECTING PLASTIC BOTTLE	Hub (7Nos)	18	PC						
61	Clip	Hub lock clip 4"	Hub (1Nos)	1	PC						
62	Tower Paint	RAL 7035 Light Grey 1K/2K Aerosol Paint	Tower (13Nos)	28	Ltr						
63	Power Supply	POWER SUPPLY 24VDC 10A 2866763 PHOENIX	NC Panel (4Nos)	4	PC						
64	Rotor rain protector cover	FRP M21 C-34sqmm G58	Rotor (1Nos)	4	PC						
65	PT 100 module	VIGITAL- TEMPRATUER SENSOR RTD PT-100, OD 6mm, Length 6",meter wire	NC panel (1Nos)	1	PC						

66	Electric Motor	OILTECH PUMP MOTOR QPM 400- 690V50Hz OPM, 1.5KW	GB Pump Motor (2Nos)	2	PC						
67	Rescue Kit	120 Meter PDQ2 Personal Rescue Kit	Nacelle (3 Nos)	3	PC						
68	Rotor Lock	KTR Rotor Lock CYLINDER GENERIC, G58	Rotor (3Nos)	3	PC						
69	Rubber Beading	Crusher Rubber Beading, EPDM RUBBER, 20mmx8M	Main door (6Nos)	72	Mtr						
70	Door mat	GLOBAL PREMIUM Chequered Electrical Rubber Mats, Thickness 8mm (Black, 1 Mtr X 2 Mtr) - (1 Pc) /Insulating Rubber Mat, Anti Skid, Shock Proof	Tower Bottom (48Nos)	48	PC						
71	SCADA Display	Electric HMIS Series Magelis SCU Touch Screen HMI - 5.7 in, TFT Display	Control Panel (3 Nos)	3	PC						
72	Sicaflex adhesive	AP Products - 017-90891 - SIKAFLEX 221 White 300 ML, ( Each )	Nacelle (4Nos)	8	PC						
73	Libra T_support	Louver Blind Window Opener T-support	Nacelle (1Nos)	1	PC						
74	Timer	GIC Digital Timer Eliro V0DDTS 24- 240 VAC/DC, 8A	Control panel (1Nos)	1	PC						
75	Winch Motor	Demag DC-PRO5-500 1/1 H5 V8/2 415/50 Chain Hoist	Nacelle (2Nos)	2	PC						
76	Transformer Silica Gel Breather	Efficacy Silica Gel Breather transformers for Absorbing Moisture Blue Color (Size 1KG) Qty – 1	USS Yard Transformer	56	PC						

77	DP Yard Earthing cable	1c X 16 Sq Mm Copper Flexible Cable	USS Yard (3 Nos)	9	Mtr						
78	Oil and winding temperature Indicator	Precimeasure /Analog (dial-type)OTI: 0°C to 150°C & WTI: 0°C to 150°C	OTI & WTI (14Nos)	14	Set						
79	Dirt Protection Glass	Marshalling box - O Glass	Protection Glass (25 Nos)	50	PC						
80	Silver Fencing Paint	RUST-OLEUM STOPS RUST 7787402 Chain Link Fence Paint, Metallic Silver, 3.78 Ltr	USS Yard Fencing (56)	74	PC						
81	PVC Tape	R Y B Pvc Electrical Insulation Tape	HV Bushing (56)	90	Roll						
82	Danger Sign Board	Rectangular Red, White 33 KV Danger Board, Dimension: 200 *250mm Length	Line Pol (13 Nos)	13	PC						
83	Stay Wire	3 mm Gi Stay Wire 7 3.15mm	Stay Wire (3Nos)	70	Kgs.						
84	Earthing wire	1 Core x 25 sq mm Type1 5kA Green Earthing Wire,	Pole Earthing (13Nos)	26	Mtr						
85	Pin insulator	Pin Insulator	Pole (1Nos)	1	Pc						
86	Anti-rust silver paint	ZincKote Cold Galvanizing Paint/Coating - Cold Galv - 96% Zinc DFT - Steel Corrosion Protection - LOW VOC - Reloads Hot Dip Galvanizing	Pole (12Nos)	24	Ltr						

87	PSS – Acrylic sheet	Acrylic Sheet 2mm Cast Acrylic Sheets, 12"X12"	PSS Yard & CTR (2Nos)	2	PC						
88	PSS- CT	Current Transformer LAMCO AMPS800-400-200/1	PSS Yard (3 Nos)	3	PC						
89	Safety Sign Board	Electrical, 5S, Maintenance, Environment, Fire	Safety Sign board	15	PC						
90	Exhaust Fan	Crompton 600 mm Exhaust Fan Grey	CTR Battery Room	1	PC						
91	Nut, Screw	M12x35MM GI brass	T/f. Valve	2	PC						
92	Silica Gel Breather	GEW 10kg Silica Gel Breather, For Moisture Absorption, Grade	Silica Gel	1	PC						
93	Paint Electrical Components	paint of colour shade RAL 7032	Power Transformer, CT, MPT, Isolator etc.	20	Ltr.						
94	Fire Extinguisher	Mild Steel A Class 10kg Safe Pro CO2 Based Fire Extinguisher	Fire Extinguisher	5	PC						
95	Air Conditioning Unit	Blue Star 2.0 Ton 5 Star Convertible 5 in 1 Cooling Inverter Split AC (Copper, Multi Sensors, Dust Filter, Smart Ready, Blue Fins, Self Diagnosis,	Control, PLCC Room	2	PC						
96	Main Door	22mm Single Fixed Aluminium Hinged Glass Door(Black)	Entry Main Door	1	PC						
97	Battery	Battery 12V 0.8A (Sure Power)	Power Supply (2Nos)	2	PC						
98	DO Barrel	33 kV Drop Out Fuse Element (1-400A)	DO Barrel	150	PC						

99	Door Lock	Jainson With Key Kranti Brass Levers Padlock, Padlock Size: 50 mm, Packaging Size	Door Lock for USS Yard	56	PC						
100	Tower	Iantex Heavy Duty 5 Inch Long Door Stopper with Strong Rubber Grip/Door	Tower Door Stopper	3	PC						
101	Controller	G58, HMI Controller Board	Controller Board	1	PC						
102	Hooter of tap changer	Buzzers 40V- 300V DC_Bharani Electronics	Hooter - Tap Changer Hooter PSS (1 Pcs)	1	PC						
103	Door	Aluminium Glass Hinged Door	PLCC Room Door (7.6 x 3.7 Feet, Aluminium Hinged Glass Door) (1 Pcs)	1	PC						
104	Motor Starter MPCB FG006	ABB MS325-4 Manual Motor Starter 2.5 ... 4.0 A	Bottom Panel (5Nos)	5	PC						
105	FG016 Switch	Kemo FG016 Extractor Control Max. Connectable Consumer 230 V/AC 1600 W With Magnetic Sensor Plug Between Socket and Plug Cooker Hood	Bottom Panel (2Nos)	2	PC						
106	FM012 MCB	MCB, 1-PHASE, C, 6A-ABB-S201-C6A	Bottom Panel (1Nos)	1	PC						
107	FG015	MCB ABB MS325, 16A, 3 pole, 690Volts, with 1NO & 1NC	Power Panel (1Nos)	1	PC						
108	FG004	MCB ABB MS325, 25A, 3 pole, 690Volts, with 1NO	Power Panel (1 Nos)	1	PC						

109	FM005	MCB ABB 1P, Curve C, 10A, 7.5KA, 230V	Power Panel (1 Nos)	1	PC					
110	FG385 & FG387 MPCB	ABB 50/60 Hz 0.75 kW – 1.5 KW 1.6A-2.3 A	Power Panel (3 Nos)	3	PC					
111	132KV Busbar Protection Panel Relay	Alstom Micom P743316A6M0510K Protection Numerical Relay 110-250V	132 KV bus section protection panel (1Nos)	6	PC					
112	132KV Busbar Protection Panel Relay	Alstom - Micom-ALSTOM P741326A6M0510K,110-250 VDC,100-240 VAC	132 KV bus section protection panel (1Nos)	1	PC					
113	Peripheral Unit HV panel relay	Micom-ALSTOM P743916A6M0510K,110-250 VDC,100-240 VAC 1/5 A	Peripheral Unit HV Panel Relay (1Nos)	1	PC					
<b>Sub Total of Material Cost Part B(In Rs.)</b>										

## 2. Services(A)

Sr No	Material/item Description	Technical Specifications	Component Sub-Description (No's WTG)	Qty. Req.	UOM	Unit Rate (Excl GST)	Total Rate (Excl GST)	Rate of GST	Amount of GST	Total Amount (Incl. GST)
1	Cradle Guards	Cradle guard installation activity	Guard Ring (3Nos)	3	LC					
2	T-support pole	T-Support Pole installation	Pole (2Nos)	2	LC					
3	Paint	Colour, shade and painting services	Paint work	1	LC					

4	Blade Repair work services	Crack, delamination, paint peel off. Others.	WTG Blade - FRP Repair services (23 Nos)	25	per Blade						
5	Blade cleaning work	Blade oil spillage cleaning with 360- degree platform + Platform Trolley	Blade Jet cleaning services	56	per WTG						
6	Supply & Installation of NIFPS System	Nitrogen Injection Transformer Fire Protection System (NIFPS), Capacity: 50 MVA (CTR Manufacturing Industries Private Limited)	Power Transformer, PSS	1	LOT						
7	OFC Cable Laying work	OFC Cable Laying work	33KV line pole (13Nos)	13	LC						
8	PSS Building	Water leakages arresting, repair work including material (concrete, cement etc)	Civil Work in Ceiling	1	LOT						
9	Civil Muffing Repair work	Civil repairing work including material (concrete, cement etc)	Pole (4Nos)	4	LC						
10	Stay wire	Tightness activity of stay wire	Pole (5Nos)	5	LC						
11	Tree Cutting	Tree Cutting Activity effort	Pole (14 Nos)	14	LC						
12	Testing Services	Earth Resistance	PSS Yard - All Earth pit	1	LC						
13	Testing Services	CTR, Relay Testing	PSS Yard - All Earth pit	1	LC						
14	Generator DE & NDE Replacement	DE and NDE Bearing replacement services	Generator (1Nos)	1	Lot						

15	PSS - Workmanship	Cable laying and tagging work	PSS CONTROL ROOM (1Nos)	1	LOT					
<b>Sub Total of Part B (Services(A)) (In Rs.)</b>										

**Services(B) A lump sum quote:**

1	Rectification Services of TCA Points mentioned at Revised SOW that are not covered in Services(A) part above	WTG + PSS+ 33KV Line+ USS Yard and etc		1	Lot					
<b>Sub Total cost for Part B (Services(B)) (In Rs.)</b>										
<b>Total Cost of Part B (Matetrials + Services A &amp; B)</b>										

**Part C: For Machinery Tools & tackles, equipment handling and any other Miscellaneous charges for executing part A & part B**

Sr. No.	Service	Qty	UOM	Unit Rate (Excl GST)	Total Rate (Excl GST)	Rate of GST	Amount of GST	Total Amount (Incl. GST)
1	Transportation, storage, handling, deployment of the crane along with its associated equipment hydra, DG set, and road repair (if the restoration process necessitates the use of a crane and road repair etc, the corresponding rates may be provided). Additionally, all miscellaneous charges related to the execution of the Scope of Work (SOW) for the complete restoration of the machines, including mobilization, demobilization, site preparation, logistics, and any other incidental expenses required for the seamless completion of the restoration process, shall be considered	1	LS					
<b>Grand Total of Part (A + B + C)</b>								

Notes:

- 1 The bidders shall enter an all-inclusive price (including GST) against the "TOTAL Contract Price ( Sum of Sr No. A1 to C in Price Schedule/BOQ) incl of GST" field while creating their response against the tender in GeM portal.
- 2 Bidders shall be required to upload the above price breakup quoted in the Excel Sheet uploaded on the GeM Portal.
- 3 The Rates & Amounts to be quoted should be in Indian Rupees (INR).
- 4 If there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 5 The Contract Price quoted by the bidder for carrying out the works & services as per the Scope of Work, BOQ and terms & conditions shall remain firm and not subject to any escalation due to any reason whatsoever during pendency of the contract.
- 6 The Contract Price shall be inclusive of costs towards Lodging Charges, Boarding Charges, Logistics and Conveyance Charges, Idle Charges, personnel, travel fare, requisite certificates, insurance, Personal Protective Equipment (PPE), statutes, central overheads, standard inspection tools, testing equipment, reporting & presentation, and nothing will be paid extra on this account by SJVN.
- 7 It is advised that during quoting of their rates, the bidder must analyse all costs involved to carry out the services as per scope of the services and the terms & conditions stipulated in the Tender Document as well as payment of Annual milestone charges/Transaction Charges/Any other charges as applicable at the time of acceptance of GeM Order. All such costs shall be deemed to be included in the quoted price.

Bidders may note that the quantities (QTY) mentioned above are total quantity envisaged to be executed under the contract.  
8 However, during execution of contract, payment shall be made as per actual quantity executed by the Contractor and verified by Engineer In Charge or his authorised representative and payment shall not be made for the quantity not executed.

9 Any item of work not mentioned in the above particulars but written elsewhere in the scope of work or essentially required for completion of works shall be deemed to have been included in the above particulars.

10 In addition to the above mentioned scope of work and BOQ, The Employer reserves the right to increase or decrease the quantities of BOQ items under PART-A and PART-B as per site requirements, without any change in the unit rates or other terms and conditions of the contract.