# Mandatory Pre-Qualification Requirements-Technical for Diode Assembly (W96414301337 and W96414301345), used in Revolving 3-phase rectifier bridge of high rating Brushless Exciters

#### Introduction:

Diodes are used in 3000 rpm (max 3600 RPM) rotating 3-phase full wave rectifier bridge of Brushless Exciter of high rating Turbogenerator sets. Electrical as well as mechanical design proven-ness of the components of diode assemblies is of utmost importance.

## Pre-Qualification Regulrements:

- Vendor must confirm that they are regular manufacturer, and have supplied Fast Recovery disc type Diodes
  meeting the technical requirements given in Annexure-1 or higher rating for 3-phase full wave Rectifier Bridge for
  rotating application (speed 3000 rpm or more) during last 7 years from date of enquiry. In support of this, vendor
  should furnish list of Purchase Orders, Customer name, Diodes rating (Current & PIV), quantity and year of supply.
- Vendor to also furnish copy of at least three PO from above list and detailed test certificates including electrical, thermal and dynamic tests of at least one PO.
  - 2.1 Vendor to also furnish the certificate of satisfactory performance of diodes since last 2 years(Minimum) in running machine of at least 1 PO with test certificate submitted against clause-2 from end user.
- Routine and type tests as listed below shall be performed in conformance to Annexure-1. Vendor should provide
  details of in-house testing facilities for these tests mentioned below. In case of non-availability of facilities for type
  tests, vendor shall have tie-up with any National / International accredited test house. The details of the same shall
  be furnished to BHEL for reference purpose.

### 3.1 Type test:

- Over speed withstand ability test for centrifugal acceleration of 8780g minimum for 2 minute. (1 cycle)
- Cyclic test for centrifugal acceleration of 6700g minimum for one minute in each cycle. (≥500 cycles)
- Checks during cyclic test (before test and after 150, 300 and 500 cycles):
  - a. Visual Inspection
  - Forward Current
  - Measurement of blocking characteristics (Voltage: Unnw/2, max. 1200V DC)
  - Measurement of temperature.
  - e. Measurement of thickness
  - f. Measurement of overhang of anode and cathode.

NOTE: In case vendor has performed type tests on the offered Diodes manufactured by them (of rating and application as defined in clause-1), type test reports has to be submitted for our review. Else, they have to confirm that all type tests shall be performed.

#### 3.2 Routine test:

- Forward Voltage Drop
- Reverse Blocking Voltage
- Reverse leakage current
- Reverse Recovery Charge and time
- Thermal Resistance
- Vendor should confirm that they have in-house facilities for diode manufacturing, machining, etc. to manufacture small machined items. In case any activity is off-loaded to other sub-vendors, details and manufacturing facilities of sub-vendors also to be furnished to BHEL.
- Vendor shall confirm to meet all the technical requirements, materials and dimensions as given in Drg. 01431001030 and all technical data given in Annexure-1. All the components shall be of reputed make and shall meet the technical requirements given in drawing.
- Vendor shall furnish detailed technical data sheet of offered diodes. Vendor shall also furnish detailed Manufacturing Plan for diodes and components used in the offered Diode assemblies.
- Vendor shall also confirm that in case of award of PO, detailed test certificates for tests mentioned in clause 3.1
  and 3.2 including test certificates of sub-items shall be furnished with supply.

#### Notes

All the documents and correspondence shall be in Foolish Issaurana

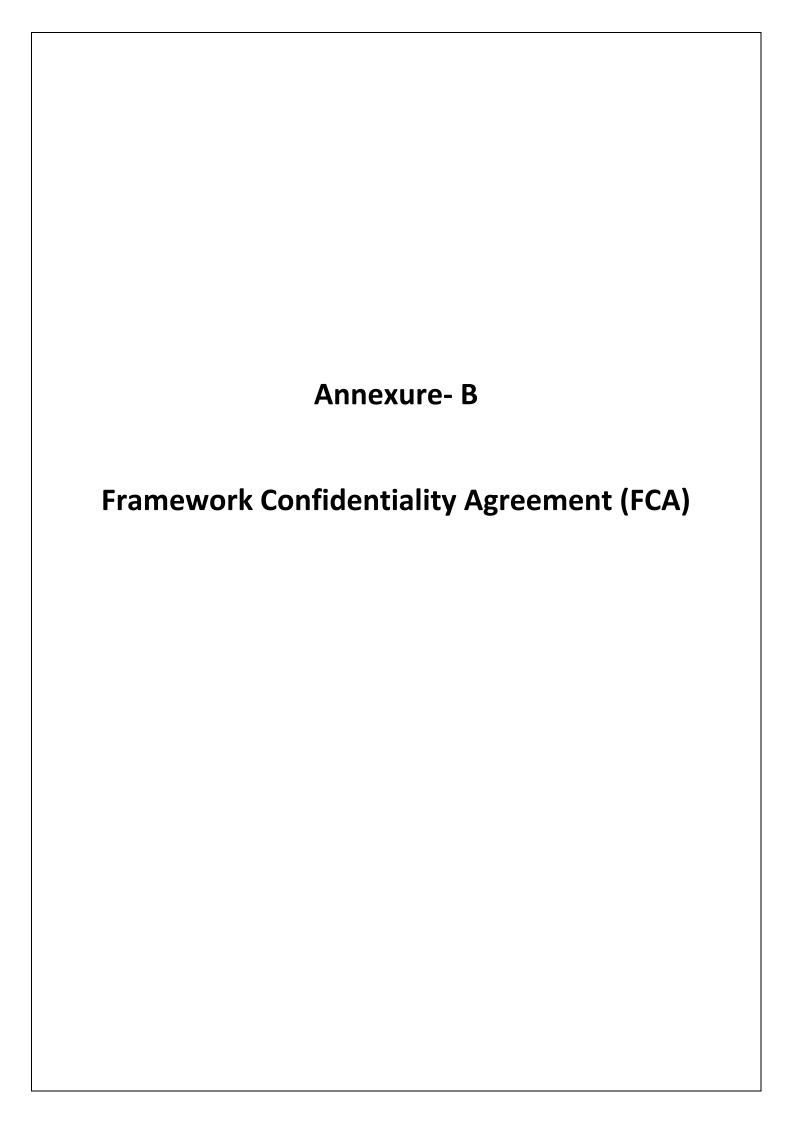
# Disc Diode Rating:

a) Forward Current : ≥ 690 Amps

b) Peak Inverse Voltage : ≥ 2600 Volts

c) Diode Type & Model : Fast recovery type diodes BHdQ67 26(Make: M/s BHEL) / D 690 S26 (Make: M/s Eupec) or equivalent, suitable for rotating application and meet technical data as mentioned below:

| Α.  | Electrical Parameters:   |   | Value  |
|-----|--|---|--|
| 51. | Description  |   | (C)(0)   |
| No. | Minimum peak repetitive reverse v  | oltage (Uasm)   | 2600 V   |
| 1   | Minimum peak repetitive volta  | ge (Ussu)   | 2700 V   |
| 2   | Minimum peak non-repetitive volta  | AN cina wave 40-60Hz.   | 690 A at case temperature  |
| 3   | Minimum mean on state current, 13  | //  | (T <sub>c</sub> ) of 100 °C  |
| 4   | junction temperature (T <sub>vi</sub> ) of 150°C   | . (IFAVMU   | 1020A at case temperatur<br>(T <sub>c</sub> ) of 60 °C   |
| 5   | Non-repetitive surge on state curre  | nt (t <sub>p</sub> = 10 ms half sine)   | 14000 A at T <sub>vj</sub> = 25°C<br>11500 A at T <sub>vj</sub> = 150°C                              |
| 6   | Non-repetitive survival rating (i²t)   |   | 98000A <sup>2</sup> S at T <sub>vi</sub> = 25°C<br>661250A <sup>2</sup> S at T <sub>vi</sub> = 150°C |
| 7   | For duration = 10 msec.  Reverse leakage current, is & at Use  | м   | ≤ 25 mA at T <sub>vi</sub> = 25°C<br>≤ 250 mA at T <sub>vi</sub> = 150°C                             |
| Ì   | 200  | ≤2.7 V  |  |
| 8   | Forward voltage drop, U <sub>f</sub> at is = 300   | 1.00 V  |  |
| 9   | Threshold voltage, U <sub>10</sub> at T <sub>vi</sub> = 150°   | 0.5mΩ   |  |
| 10  | Forward slop resistance, rr at T <sub>vi</sub> = 1   | 50°C.   |  |
| 11  | i. Peak Reverse recovery time, t <sub>o</sub> ii. Recovery charge, Q <sub>r</sub> iii. Peak reverse recovery current, l <sub>o</sub> | at T <sub>vi</sub> = 150°C, I <sub>FNVM</sub> = 1020A,<br>-dir/dt = 50A/µs,<br>M U <sub>K</sub> ≤ 0.5U <sub>RRM</sub> , V <sub>FM</sub> = 0.8U <sub>RRM</sub> | 9 μs<br>970 μC<br>155 A  |
|     | - In-motory  |   |  |
| -   | 3. Thermal Parameters: Continuous operating junction temp  | perature range  | -40° C to 150°C  |
| 1   |  |   | -40° C to 150°C  |
| 3   | Storage temp. Range Thermal resistance, junction to case (Resc)  | DC, double side cooling<br>DC, anode side cooling<br>DC, cathode side cooling   | 0.036 K/W max.<br>0.069 K/W max.<br>0.090 K/W max.   |
| -   | Mechanical Parameters:   |   |  |
| 1   | Cyclic centrifugal acceleration  |   | 6700g  |
| 2   | Over-speed centrifugal acceleration  |   | 8780g  |
| 3   | Humidity classification, DIN 40040   |   | C Annew 300am  |
| 4   | Weight   | uface)  | Approx. 300gm  |
| 5   | Creepage distance, (along ceramic s  | urrace)   | ≥ 28mm<br>≥ 10 kN  |
| 6   | Clamping/mounting force  |   | E 10 KM  |



## Framework Confidentiality Agreement cum Undertaking

| This Agreement made on this the                        | day of (month)      | 20              |
|--|---------------------|-----------------|
| ("Effective Date") by and between                      |                     |                 |
| M/s BHARAT HEAVY ELECTRICALS LIMITED,                  | having registered   | office at "BHEL |
| House", Siri Fort, New Delhi - 110049 (India), ac      | cting through its _ | Unit            |
| (hereinafter may be referred to as "BHEL" or "the Comp | oany").             |                 |
| And  |                     |                 |
| M/s (addre   | ess)                |                 |
| represented by authorized representative Sri           |                     | (herein after   |
| referred to as the "Supplier").                        |                     |                 |

The Supplier and the Company may, unless the context otherwise requires, hereinafter be collectively referred to as "Parties" or singly as the "Party".

#### RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing, commissioning and servicing of a wide range of products, systems and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable energy, Oil & Gas and Defence and providing associated services to varied customers in relation to which BHEL/its affiliates own valuable information of a secret and confidential nature.

Whereas the Company may, in connection with Contract(s) (as defined hereunder) placed or to be placed upon the Supplier, or otherwise, from time to time, make available, Technical Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from time to time and the Supplier understands and acknowledges that such Technical Information is valuable for the Company and as such is willing to protect confidentiality of such information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual covenants and agreements hereinafter set forth, the Parties agree as under:

#### 1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning ascribed to the said term in this clause.

- A. "Contract" means the Contract entered into with a Supplier and includes a Purchase Order, or a Work Order for procurement of any goods or for provision of any services.
- B. "Effective Date" means the date of this Agreement as mentioned in the preamble of this Agreement.

- C. "Supplier" includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
- D. "Technical Information" includes Drawings, and/or Product Standards and/or Specifications and/or Corporate / Plant Specifications and/or Technological Process Sheets and/or Technical Data Sheets and/or Jigs & Fixtures and/or Pattern & Dies and/or Special Gauges and/or Tools etc. belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Supplier.
- E. "Intended Purpose" means the purpose for which the Technical Information is provided to the Supplier under or in connection with a Contract.
- F. "Improvement" includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (whether in terms of effectiveness or in terms of efficiency or both) of the product and/or the service to be provided by the Supplier under a Contract.
- 2. This Agreement shall come into force/deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the Supplier; whichever is earlier.
- 3. Agreement deemed to be incorporated in each Contract: Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contracts has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.

## 4. Ownership:

- 4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.
- 4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any license or rights of use of such patent, copyright or design or any other

intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the Contract and/or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

- 4.3 Neither Party is obligated by or under this Agreement to purchase from or provide to the other Party any service or product and that any such purchase/sale of any product and/or service by one Party to the other Party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.
- 4.4 The Supplier is/has been made well aware and acknowledges that the Technical Information being/which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.
- 4.5 The Supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors/suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the Supplier or its employees or sub-contractors/suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.
- 4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights/title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings/documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvement in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to Improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the Supplier.

## 5. Use and Non-Disclosure:

5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the Supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

- 5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.
- 5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the Product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and/or service to any third party, without the prior written consent of the Company.
- 5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the Supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is/was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the Supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.
- 5.5 The Supplier undertakes and agrees not to make copies or extracts of and not to disclose to others any or all of the Technical Information in its possession, except as follows:
  - (a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.
  - (b) With the prior written consent of Company, the Supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
  - (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the Supplier

intends to make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

## 6. Exceptions:

The obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was/is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing Party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.
- 7. The obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of ---- years from the date when the complete Technical Information has been returned to the Company and if Technical Information has been returned in portions on different dates then, the period of ---- years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of ----- years.

### 8. Warranties & Undertakings:

- a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.
- b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material/documents belonging to him/it or to any other third party.
- c) The Supplier further undertakes that he/it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and/or equipment of the Company, made available to him/it, and undertakes that he/it shall hold the same as a trustee, in capacity of custodian thereof and use/utilise the same solely for the purpose of executing the Contract awarded by the Company.
- d)The Supplier further undertakes that he/it shall return all the equipment and/or Technical Information as far as practicable in the same condition in which the same was made available to him/it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope

of work or Contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and/or Technical Information/Improvement thereof. In case any such equipment and/or Technical Information or Improvement thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or Improvement thereto shall continue to be governed by this Agreement.

- e) The Supplier undertakes to indemnify the Company for all the direct, indirect and/or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and/or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the foregoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.
- **9.** Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 8(e) hereinabove, the Company shall have a right to withhold, recover and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him/it by any department/office/Unit/Division of the said Company.

#### 10. Arbitration & Conciliation:

a) In case amicable settlement is not reached between the Parties, in respect of any dispute or

difference or claim or controversy arising out of the formation, breach, termination, validity or execution of the Contract(or Agreement) or the respective rights and liabilities of the parties or in relation to interpretation of any provision of the Contract or in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference or controversy or claim, (except as to any matters, the decision of which is specifically provided for therein) to the sole arbitration by the arbitrator appointed by Head/In-Charge of the Unit/Division/Region.

- b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties to the dispute.
- c) Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India), or other statutory modifications or re enactments thereof and the rules made thereunder and for

the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be at ----- (Insert the name of the city/town of the concerned BHEL Unit/Division).

d) In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

e) Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Supplier shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner.

#### 11. Governing Law & Jurisdiction:

This Agreement shall be governed by and be construed as per applicable Indian Laws in force at the relevant time.

Subject to clauses 10(a) and 10(d) hereinabove, all matters in connection with the subject agreement shall be subject to exclusive jurisdiction of Courts situated at -----(insert the name of the place where the BHEL Unit/Division is located)

**SIGNATURE** 

## WITNESSES

1.

Name

Address:

2.

Name:

Address:

## NON-DISCLOSURE AGREEMENT

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder.

## Signature with stamp

## Quality Requirement will be as follows: -

INSPECTION BY BHEL/BHEL NOMINATED INSPECTION AGENCY AS PER BHEL APPROVED QP. VENDOR HAS TO SUBMIT QP FOR BHEL APPROVAL.

FOR SISTER UNIT- TESTING & CERTIFICATION IS REQUIRED AS PER ORDERING DRAWING & SPECIFICATION.

## Item details are as follows -

MATERIAL CODE- W96414301337
 DRG: 01431001030 -00 REV: 03
 Diode Assembly(+Ve)
 QTY- 218 Nos.

2. MATERIAL CODE- W96414301345

DRG: 01431001030 -01 REV: 03 Diode Assembly(-Ve) QTY- 218 Nos.

## **Certificate**

| are local sur | oplier mee | tina the r | eauireme | nt of minimum | local content | (supplier<br>t (50%) as def |    |
|---------------|------------|------------|----------|---------------|---------------|-----------------------------|----|
| •             | orders     | for        | the      | material      | against       | ` ,                         | No |

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

Seal and Signature of Supplier

(20)

Annexure-1

## **INTEGRITY PACT**

#### Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

| and   |
|---|
| , (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include it successors or assigns of the OTHER PART  |
| <u>Preamble</u>   |
| The Principal intends to award, under laid-down organizational procedures, contract/s for   |
| (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant law of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s). |

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

#### Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
- 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- 1.1.3 The Principal will exclude from the process all known prejudiced persons.
  - 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

#### Section 2 - Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.



- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or interest to make to agents, brokers or any other intermediaries in connection with the award of the contract.
  - 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  - 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

#### Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

#### Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above , the Bidder(s)/ Cotractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be-entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee , whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.



## Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

## Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

## Section 7 - Criminal Charges against violating Bidders/ Contractors / Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

#### Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (EMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.



8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.

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- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Prinicpal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

#### Section 9 - Pact Duration

- This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from Juture business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

# (16)

#### Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consertium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle 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, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

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| For & On behalf of the Principal (Office Seal) | For & On behalf of the Bidder/ Contractor (Office Seal) |
| Place MARIDWAR                                 |   |
| Date   |   |
| Witness:                                       | Witness:  |
| (Name & Address) <u>Diptendra</u> Kiehore      | Shattacharya (Name & Address)                           |

# SOURCING STRATEGY & POLICY BHEL - NEW DELHI

Ref: AA:SSP:IP:22-23:01 Date: 26th Jul' 2022

## 2022-23 का परिपत्र सं. 12 (Circular No. 12 of 2022-23)

Sub: Implementation of Integrity Pact (IP) in BHEL - New Panel of Independent External Monitors (IEMs)

- A. The tenure of the two IEMs of BHEL, Shri Virendra Bahadur Singh, IPS (Retd.) and Shri Arun Chandra Verma, IPS (Retd.) has expired on 19th July 2022.
- B. Following IEMs have been appointed by BHEL for a period of three years:

| SI | IEM                                   | Email .      |
|----|---------------------------------------|--------------|
| 1. | Shri Otem Dai, IAS (Retd.)            | iem1@bhel.in |
| 2. | Shri Bishwamitra Pandey, IRAS (Retd.) | iem2@bhel.in |
| 3. | Shri Mukesh Mittal, IRS (Reta.)       | iem3@bhel.in |

All the existing/ new tenders covered under IP (Rs 2 Crs & above) will be overseen by the new panel of IEMs. The 'Clause on IP in tender' which has been modified and enclosed, be made part of all future tenders.

Details of the new IEMs be circulated among all in Purchase / Contracting departments and also be cited on the website of the Unit & B2B portals.

This may also be communicated to all the Bidders/ Suppliers/ Contractors.

The Circular is also uploaded on SS&P Intranet page and www.bhel.com.

(C Venkat Fac) GM (SS&P)

### Distribution:

- All Heads of MM of Units/Regions

## Copy to:

- All Heads of Units/ Regions/ Divisions
- GM & Head (Corp Fin.)
- SS&P page on Corporate Office intranet: <a href="http://intranet.bhel.in">http://intranet.bhel.in</a>
- CVC
- Director (Finance)/ (IS&P-Addl Charge E,R&D)/ (Power-Addl Charge HR) For kind info
  please
- SA to CMD

- For kind information of CMD please



## Clause on IP in the tender

## Integrity Pact (IP)

(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

| SI | IEM                                   | Email        |
|----|---------------------------------------|--------------|
| 1. | Shri Otem Dai, IAS (Retd.)            | iem1@bhel.in |
| 2. | Shri Bishwamitra Pandey, IRAS (Retd.) | iem2@bhel.in |
| 3. | Shri Mukesh Mittal, IRS (Retd.)       | iem3@bhel.in |

- (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- (c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

#### Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

Details of contact person(s):

| (1) Name: Admir from Deptt: Pfp-Bon Address: MEGF-CHEL-HARDWAR. Phone: (Landline/ Mobile) | (2) Name: Diptendra Kishoru Bhattecherge Deptt: PPX EM Address: HEEP, Handwart Phone: (Landline/ Mobile) |
|---|--|
| Email Assoit @ bhel.in_   | Email: diptendra. hi bhathacturya @ bhelin<br>Fax:   |

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