Mandatory Pre-Qualification Requirements-Technical for RC-Block (W96414300136), used in Revolving 3-phase rectifier bridge of high rating Brushless Exciters

Introduction:

RC Blocks are used in 3000rpm (max 3600 RPM) rotating 3-phase full wave rectifier bridge of Brushless Exciter in large ratings sets. Not only Electrical proven-ness of the components is important, but the Mechanical design of these components and their proven-ness is of utmost importance.

Pre-Qualification Requirements:

- Vendor must confirm that they are regular manufacturer, and have supplied RC Block with minimum rating 5.6Ω, 0.6μF, 750Vrms AC, or higher, of 3-phase full wave Rectifier Bridge for rotating application (speed 3000rpm or more) during last 5 years. In support of this, vendor should furnish list of Purchase Orders, Customer name, rating, quantity and year of supply.
- Vendor to also furnish copy of at least one PO (not older than Five year) from above list and detailed test certificates.
- Routine and Type tests as listed below are required as per specification. The vendor should provide details of inhouse testing facilities for these tests. In case of non-availability of facilities for type tests, vendor shall have tieup 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 centrifuga! acceleration of 8200g minimum (1 cycle).
- Fatigue cyclic test for centrifugal acceleration of 5750g minimum (1000 cycles).
- Electrical loading during cyclic fatigue test.
- Radiographic examination.

NOTE: In case vendor has performed type tests on similar RC blocks 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:

- Capacitor unit (0.6µF±5%, 750Vrms AC) tested at 4KV DC for 5 minutes
- Complete RC Block tested at 2.5KV DC for 5 minutes.
- HV testing against earth at 6KV AC for one minute.
- Resistance & capacitance measurement.
- Vendor shall confirm to meet all the technical requirements of Drg. 01431001003 and clauses of spec.TG60562.
- Vendor shall confirm that RC Block shall be capable to work at 150Hz sinusoidal 3-phase AC supply for rotating application.
- Vendor shall confirm that the raw material/components Capacitor, Resistance wire, Casing, Epoxy resin/hardener, solder etc.) shall be sourced from reputed suppliers and details of the same shall be furnished to BHEL.
- 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 along with supply.

Notes:

- Details against clause 1 to 7 are mandatory to be submitted by vendor. Offers of vendors not meeting the mandatory PQR are tiable to be rejected.
- BHEL reserves the right to verify information submitted by vendor. In case any information is found to be false/ incorrect, the offer shall liable to be rejected.
- 3 All the documents and correspondence shall be in English/Hindi language.

Mandatory Pre-Qualification Requirements-Technical for RC-Block (W96414300896), used in Revolving 3-phase rectifier bridge of high rating Brushless Exciters

Introduction:

RC Blocks are used in 3000rpm rotating 3-phase full wave rectifier bridge of Brushless Exciter in large ratings sets. Not only Electrical proven-ness of the components is important, but the Mechanical design of these components and their proven-ness is of utmost importance.

Pre-Qualification Requirements:

- Vendor must confirm that they are regular manufacturer, and have supplied RC Block with minimum rating 5.6Ω, 0.6μF, 750Vrms AC, or higher, of 3-phase full wave Rectifier Bridge for rotating application (speed 3000rpm or more) during last 7 years. In support of this, vendor should furnish list of Purchase Orders, Customer name, rating, quantity and year of supply.
- Vendor to also furnish copy of at least one PO (not older than seven year) from above list and detailed test certificates.
- Routine and Type tests as listed below are required as per specification. The vendor should provide details of inhouse testing facilities for these tests. 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 8200g (1 cycle)
- Fatigue cyclic test for centrifugal acceleration of 5750g (1000 cycles)
- Electrical loading during cyclic fatigue test.
- Radiographic examination

NOTE: In case vendor has performed type tests on similar RC blocks 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:

- Capacitor unit (0.6µF±5%, 750Vrms AC) tested at 4KV DC for 5 minutes
- Complete RC Block tested at 2.5KV DC for 5 minutes.
- HV testing against earth at 6KV AC for one minute.
- Resistance & capacitance measurement.
- Vendor shall confirm to meet all the technical requirements of Drg. 31431001169, Drg. 11431001039, Drg. 21431001083 and clauses of spec.TG60562.
- Vendor shall confirm that RC Block shall be capable to work at 150Hz sinusoidal 3-phase AC supply for rotating application.
- Vendor shall confirm that the raw material/components Capacitor, Resistance wire, Casing, Epoxy resin/hardener, solder etc.) shall be sourced from reputed suppliers and details of the same shall be furnished to BHEL.
- 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 along with supply.

Notes:

- Details against clause 1 to 7 are mandatory to be submitted by vendor. Offers of vendors not meeting the mandatory PQR are liable to be rejected.
- All the documents and correspondence shall be in English language.

Mandatory Pre-Qualification Requirements-Technical for Fuse (W96414300500), used in Revolving 3 phase rectifier bridge of high rating Brushless Exciters

Introduction:

Fuses are used in 3000rpm rotating 3-phase full wave rectifier bridge of Brushless Exciter in large ratings sets. Not only Electrical proven-ness of the components is important, but the Mechanical design of these components and their proven-ness is of utmost importance.

Pre-Qualification Requirements:

- Vendor must confirm that they are regular manufacturer, and have supplied Fuse (minimum rating 400A, 700V or higher) for 3-phase full wave Rectifier Bridge for rotating application (speed 3000rpm or more) during last 7 years. In support of this, vendor should furnish list of Purchase Orders, Customer name, Fuse rating, quantity and year of supply.
- Vendor to also furnish copy of at least one PO (not older than seven year) from above list and detailed test certificates.
- Routine and Type tests as listed below are required as per specification. The vendor should provide details of inhouse testing facilities for these tests. In case of non-availability of facilities for type tests, vendor shall have tieup 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 6396g min. (1 cycle)
- Fatigue cyclic test for centrifugal acceleration of 4442g min. (100 cycles)
- Current loading during cyclic test
- I2t characteristics
- Time-current characteristics
- Current Interruption tests
- Radiographic examination

NOTE: In case vendor has performed type tests on similar Fuses 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:

- Measurement of fuse resistance (300μΩ ± 6%)
- Measurement of dimensions and weight
- Vendor shall confirm to meet all the technical requirements of Drg. 21431001031 and all clauses of spec. TG80563.
- Vendor shall confirm that offered Fuse shall be capable to work at 150Hz sinusoidal 3-phase AC supply for rotating application.
- Vendor shall confirm that the raw material / components (Silver foil, Insulation tube, Connection terminals, Quartz sand etc.) shall be sourced from reputed suppliers.
- 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 English/Hindi language.

Mandatory Pre-Qualification Requirements-Technical for Fuses (W96414300128), used in Revolving 3-phase rectifier bridge of high rating Brushless Exciters

Introduction:

Fuses are used in 3000 rpm (max 3600 RPM) rotating 3-phase full wave rectifier bridge of Brushless Exciter in large ratings sets. Electrical as well as mechanical design proven-ness of the components is of utmost importance.

Pre-Qualification Requirements:

- 1. Vendor must confirm that they are regular manufacturer, and have supplied Fuse (minimum rating 800A, 800V or higher) for 3-phase full wave Rectifier Bridge for rotating application (speed 3000 rpm or more) during last 5 years. In support of this, vendor should furnish list of Purchase Orders, Customer name, Fuse rating, quantity and year of supply.
- Vendor to also furnish copy of at least one PO (not older than Five years) from above list and detailed test 2. certificates.
- Routine and Type tests as listed below are required as per specification. The vendor should provide details of in-3. house testing facilities for these tests. 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 6396g minimum. (1 cycle)
- Fatigue cyclic test for centrifugal acceleration of 4442g minimum. (100 cycles)
- Current loading during cyclic test
- I²t characteristics
- Time-current characteristics
- Current Interruption tests
- Radiographic examination

NOTE: In case vendor has performed type tests on similar Fuses 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:

- Measurement of fuse resistance (150μΩ ± 6%)
- Measurement of dimensions and weight
- Vendor shall confirm to meet all the technical requirements of Drg. 21431001010 and all clauses of spec. TG60563. 4.
- Vendor shall confirm that offered Fuse shall be capable to work at 150 Hz sinusoidal 3-phase AC supply for rotating 5. application.
- Vendor shall confirm that the raw material / components (Silver foil, Insulation tube, Connection terminals, Quartz 6. sand etc.) shall be sourced from reputed suppliers. Name of such suppliers shall be informed to BHEL.
- Vendor shall also confirm that in case of award of PO, detailed test certificates for tests mentioned in clause 3.1 7. and 3.2 including test certificates of sub-items shall be furnished with supply.

Notes:

- Details against clause 1 to 7 are mandatory to be submitted by vendor. Offers of vendors not meeting the 1. mandatory PQR, are liable to be rejected.
- BHEL reserves the right to verify information submitted by vendor. In case any information is found to be false/ 2. incorrect, the offer shall liable to be rejected.
- All the documents and correspondence shall be in English/Hindi language. 3.



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्ववासन SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली

| i. | Item/Scope of Sub-contracting | | | | | | |
|------|--|---|--|-----------------------------|------------------|--|--|
| | उप-संविदा(अनुबंध) का मद/ दायरा | | | | | | |
| ii. | Address of the registered office पंउ | जीकृत कार्यालय का पता | Details of Contact Person संपर्क व्यक्ति का विवरण | | | | |
| | | | (Name, Designation, Mobile, Email) (नाम, पदनाम, | | | | |
| | | | मोबाइल, ईमेल) | | | | |
| | | | ī | | | | |
| iii. | Name and Address of the proposed | d Sub-vendor's works | Details of Conta | act Person: संपर्क व | यक्ति का विवरण | | |
| | where item is being manufactured | | Details of conte | ict i ci 3011. (1997 - | वानरा नग ।ववर-। | | |
| | 🛮 ार्यों 🗀 ा नाम और 🖺 ता, जहां मद का नि | र्माण किया जा रहा है | (Name, Designo | ation, Mobile, Ema | il) (नाम, पदनाम, | | |
| | | | मोबाइल, ईमेल) | मोबाइल, ईमेल) | | | |
| | | | | | | | |
| iv. | Annual Production Capacity for p | | I | | | | |
| | sub-contracting उप-संविदा(अनुबंध) व | के प्रस्तावित मद / दायरे के | | | | | |
| | लिए वार्षिक उत्पादन क्षमता | C | | П | | | |
| v. | Annual production for last 3 item/scope of sub-contracting | | | | | | |
| | प्रस्तावित मद् / दायरे के लिए पिछले 3 व | | | | | | |
| vi. | Details of proposed work | · | विवरण | | | | |
| | Details of proposed work | אר ווייר וארווואא א | 144(-1 | | | | |
| 1. | Year of establishment of present wor | ks वर्तमान फैक्टरी की | | | | | |
| | स्थापना का वर्ष | | | | | | |
| 2. | Year of commencement of manufactor | | | | | | |
| | उपरोक्त फैक्टरी में निर्माण कार्य शुर | | | | | | |
| 3. | Details of change in Works address i | • • | | | | | |
| | फैक्टरी स्थल में परिवर्तन का विवरण | ा (यदि कोई हो)) | | | | | |
| 4. | Total Area কুল क्षष्ठ | | I | | | | |
| | Covered Area शामिल क्षघ | | | | | | |
| 5. | Factory Registration Certificate फैक्टरी पानकरण प्रमाण | | Details attached at Annexure – F2.1 विवरण | | | | |
| | पत्र | | अनुलग्नक- एफ | 2.1 पर संलग्न है | | | |
| 6. | Design/Research & development set- | <i>up</i> डिजाइन / अनुसंधान | Applicable / Not applicable if manufacturing is as | | | | |
| | और विकास सेटअप (No. of manpo | _ | per main Contractor/purchaser design) | | • | | |
| | machines & tools employed etc.) (প্র | loyed etc.) (श्रमिकों की संख्या, उनकी (| | (if applicable) लागू / लागू | | | |
| | योग्यता, मशीन और उपलब्ध उपकर | ण □ दि) | नहीं, अगर विनिर्माण मुख्य संविदाकार / खरीददार के | | | | |
| | | | डिजाइन के अनु | सार है) | | | |
| | | | विवरण अनुलग्नक —एफ 2.2 पर संलग्न है । | | | | |



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्ववासन SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली

| | | (यदि लागू हो) | | | | |
|-----|---|--|--|--|--|--|
| 7. | Overall organization Chart with Manpower Details | Details attached at Annexure – F2.3 विवरण | | | | |
| /. | (Design/Manufacturing/Quality etc) मैनपावर विवरण के | Details attached at Annexure - F2.3 विवरण अनुलग्नक - F2.3 में संलग्न है । | | | | |
| | साथ समग्र सं□ठन का चार्ट(डिजाइन / विनिर्माण / □ ्णवता | | | | | |
| | आदि) | | | | | |
| 8. | After sales service set up in India, in case of foreign sub- | · · · · · · · · · · · · · · · · · · · | | | | |
| 0. | vendor(Location, Contact Person, Contact details etc.) भारत | Applicable / Not applicable ला□ू / ला□ू नहीं | | | | |
| | में बिक्री सेवा की स्थापना के बाद, विदेशी उप-विक्रेता के | Details attached at Annexure – F2.4 विवरण | | | | |
| | मामले में(स्थल , संपर्क व्यक्ति, संपर्क विवरण आदि) | अन्लग्नक -2.4 पर संलग्न है । | | | | |
| 9. | Manufacturing process execution plan with flow chart | | | | | |
| 9. | indicating various stages of manufacturing from raw | Details attached at Annexure – F2.5 विवरण | | | | |
| | material to finished product including outsourced process, if | अनुलग्नक - F2.5में संलग्न है | | | | |
| | any फ्लोचार्ट सहित विनिर्माण प्रक्रिया निष्पादन योजना, | | | | | |
| | जिसमें आउटसोर्स प्रक्रिया, यदि कोई हो, सहित कच्चे माल से | | | | | |
| | तैयार उत्पाद तक विनिर्माण के विभिन्न चरणों को दर्शाया | | | | | |
| | □ या हो, | | | | | |
| 10. | Sources of Raw Material/Major Bought Out Item कच्चे माल | Details attached at Annexure – F2.6 विवरण | | | | |
| | के स्रोत / खरीदे ह्ए मुख्य मद | अनुलग्नक - F2.6में संलग्न है। | | | | |
| 11. | Quality Control exercised during receipt of raw | Details attached at Annexure – F2.7 विवरण | | | | |
| | material/BOI, in-process , Final Testing, packing कच्चे माल | अन्लग्नक - F2.7 पर संलग्न है | | | | |
| | / खरीदे हुए मद, प्रक्रियाबद्ध, अंतिम परीक्षण, पैकिं□ करते | 3 | | | | |
| | समय 🛚 णवत्ता नियंत्रण | | | | | |
| 12. | Manufacturing facilities (List of machines, special process facilities, material handling etc.) | Details attached at Annexure – F2.8 विवरण | | | | |
| | विनिर्माण स्विधा(मशीनों की सूची, विशेष प्रक्रिया स्विधाएं, | अन्लग्नक - F2.8में संलग्न है । | | | | |
| | सामग्री रख-रखाव आदि) | 3 | | | | |
| 13. | Testing facilities (List of testing equipment) | Details attacked at Assessment E2 9 Darrow | | | | |
| 13. | परीक्षण स्विधाएं(परीक्षण उपकरण की सूची) | Details attached at Annexure - F2.9 विवरण | | | | |
| 7.1 | | अनुलग्नक – F2. 9 में संलग्न है । | | | | |
| 14. | If manufacturing process involves fabrication then- यदि | Applicable / Not applicable ला□ू / ला□ू नहीं | | | | |
| | निर्माण प्रक्रिया में फेब्रिकेशन की 🛮 ई है तो- | Details attached at Annexure – F2.10 विवरण | | | | |
| | List of qualified Welders पात्र वेल्डर की सूची | अनुलग्नक - F2.10में संलग्न है। | | | | |
| | List of qualified NDT personnel with area of specialization | (if applicable) ला□ू / ला□ू नहीं | | | | |
| | विशेषज्ञता के क्षेत्र सहित पात्र एनडीटी कार्मिकों की सूची | " " | | | | |
| 15. | List of out-sourced manufacturing processes with Sub- | | | | | |
| | Vendors' names & addresses सब-वेंडर द्वारा बाह्य स्रोतों | | | | | |
| | (उनके नाम और पते सहित)से करवाएं 🛮 ए निर्माण प्रक्रियाओं | Details attached at AnnexureF2.11 विवरण | | | | |
| | की सूची | अनुलग्नक - F2.10में संलग्न है। | | | | |

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| | | | | | (if applicable) (यदि लागू हो) | | | | | | |
|-----------------|--|-------------------|---|---------------------------------|--|--|---------------------|---------------------|--|--|--|
| 16. | Supp | lv reference l | list including recent | supplies न | Details attached at Annexure – F2.12 | | | | | | |
| | | | | <i>FF</i> | विवरण अन्लग्नक - F2.12 में संलग्न है । | | | | | | |
| | आपूर्ति सहित आपूर्ति संदर्भ सूची | | | | (as per form | at given below) (नीच | ा∟दिए गए प्रारूप का | | | | |
| | | | | | | | | | | | |
| Project | | Customer | Supplied Item (Type/Ratin | ıg/Model | PO ref | अनुसार) no/date पीओ | Supplied Quantity | Date of Supply | | | |
| packag परियो | | Name ग्राहक | /Capacity/Size etc) आपूरि | र्ते की गई | | अापूर्ति की मात्रा आपूर्ति की तारीख | | | | | |
| | | का नाम | वस्तु (प्रकार / रिटिंग / र | मॉडल / | सदम | स. / ।ताथ | | | | | |
| /पैकाऊ | 1 | | क्षमता / आकार आदि) | | | | | | | | |
| | | | | | | | | | | | |
| 17. | Produ | uct satisf | factory performa | nce fe | eedback | Attached at | annexure - F2.13 H | - नलग्नक F2. 3पर | | | |
| | letter | /certificates/E1 | nd User Feedback 30 | -पाद क ा संते | ोषजनक | संलग्न है | | 3 | | | |
| | प्रदर्श | न संबंधी फीडबै | क पत्र / प्रमाण पत्र / | अंतिम उपर | योगकर्ता | (1(4)001 6 | | | | | |
| | फ़ीडबै | क | | | | | | | | | |
| 18. | | | Test Report (Type Test | | ort No, | Applicable / Not applicable लागू / लागू नहीं | | | | | |
| | - | • . | ting) for the proposed | _ | | inprocessor that approcess the control of the contr | | | | | |
| | | _ | ating) प्रस्तावित उत्पाद | | | | | | | | |
| | | | टाइप टेस्ट रिपोर्ट (टाइप | टेस्ट विवरण | ग, रिपोर्ट | Details attached at Annexure – F2.14 विवरण | | | | | |
| | संख्य | ा, एजेंसी, जांच व | नी तारीख) का सारांश | | | अन्लग्नक - F2.1 4में संलग्न है | | | | | |
| | नोट: - रिपोर्ट प्रस्तुत करने की आवश्यकता नहीं है | | | | | (if applicable) (यदि लागू हो) | | | | | |
| | | | d not to be submitted | | | | | | | | |
| 19. | | • | ory certification for th जिए वैधानिक / अनि | | - | Applicable / Not applicable लागू / लागू नहीं | | | | | |
| | жп | ।।पत उत्पाद क | ालर पयानिक / जान | ापाय प्रमाण | ।करण | Details attached at Annexure – F2.15 | | | | | |
| | | | | | | (if applicable) (यदि लागू हो) | | | | | |
| 20. | | | | | | | ,, | | | | |
| 20. | Copy of ISO 9001 certificate आईएसओ 9001 प्रमाण पत्र की | | | | पत्र का | Attached at Annexure – F2.16 अनुलग्नक में | | | | | |
| | प्रति (if available(यदि उपलब्ध हो) | | | | | संलग्न - F2.1 6 है | | | | | |
| 21. | | | | | | Details attached at Annexure - F2.17 विवरण | | | | | |
| | प्रस्तावित मद के लिए उत्पाद तकनीकी कैटलॉग (यदि | | | अनुलग्नक - F2.1 7 में संलग्न है | | | | | | | |
| | उपलब्ध हो) | | | | | | ` | | | | |
| | | | | | | | | | | | |
| Name | :: [] | | | Desig: | | Sig | n: | Date: | | | |
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| MANUFACTURER'S NAME AND ADDRESS | | | | QUALITY PLAN | N | TO BE FILLED BY BHEL TO BE FILLED BY | | | BHEL | | | |
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Note: All page of inspection documents shall be numbered in chronology with the QAP clause, dully mentioning the corresponding QAP clause nos. at the top of each page. One index page containing the documents descriptions, their page no & QAP clause shall be attached upfront the inspection documents.

| | LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY | FOR CUSTOMER USE | |
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| MANUFACTURER/SUBCO NTRACTOR | CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER | | APPROVED BY |