

Form No.



PRODUCT STANDARD
TC ENGINEERING
HYDERABAD

TC65442-13,14

Rev No. 00

Page 1 of 13

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SPECIFICATION FOR SEAL GAS BOOSTER
IOCL-BARAUNI RFCC PROJECT

| Ref. Doc. | Rev. No. | Revisions | Prep. | Appd. | Date |
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Form No.



**PRODUCT STANDARD
TC ENGINEERING
HYDERABAD**

TC65442-13,14

Rev No. 00

Page 2 of 13


TABLE OF CONTENTS

| CLAUSE NO. | TITLE |
|------------|--|
| 1 | SCOPE |
| 2 | TECHNICAL DATA |
| 3 | TECHNICAL REQUIREMENTS |
| 4 | SPARES REQUIREMENT |
| 5 | NACE COMPLIANCE |
| 6 | DESIGN STANDARDS (AS APPLICABLE) |
| 7 | PIPING REQUIREMENTS |
| 8 | DOCUMENTATION REQUIREMENTS |
| 9 | EQUIPMENT QUALIFICATION CRITERIA (EQC) |
| 10 | PROVEN TRACK RECORD |
| 11 | INSPECTION AND TESTING REQUIREMENTS |
| 12 | MARKING AND SHIPPING |
| 13 | DEVIATIONS |
| 14 | GUARANTEE |
| 15 | TENDER EVALUATION CRITERIA |
| 16 | TENDER REJECTION |
| 17 | SPECIAL NOTES |
| 18 | CHECK LIST |
| 19 | PTR FORMAT |
| 20 | DEVIATION FORMAT |
| 21 | CERTIFICATE FOR LOGISTICS SUPPORT |
| 22 | PROJECT SPECIFIC BOOSTER TECHNICAL DATA & PRICE SCHEDULE |

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Ref.
Doc.

| | | | |
|---|---|---|--|
| | Form No.  | PRODUCT STANDARD TC ENGINEERING HYDERABAD | TC65442-13,14 Rev No. 00 Page 3 of 13 |
| COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company. | | <p>1.0 SCOPE This specification defines the scope of supply for a seal gas booster (s) that shall be used to ensure seal gas flow to centrifugal compressor dry seals during compressor start-up or when compressor is in pressurized shutdown. The seal gas booster (s) is realized as pneumatic driven, reciprocating (single or double acting) compressor. The booster (s) shall be suitable for horizontal or vertical mounting.</p> <p>2.0 TECHNICAL DATA: Refer clause 22.</p> <p>3.0 TECHNICAL REQUIREMENTS</p> <p>3.1 The booster shall be suitable for operation of minimum 2000 hrs without any maintenance required.</p> <p>3.2 The seal gas booster(s) shall be suitable for instant start-up without any lead time.</p> <p>3.3 The booster material shall be SS316 as a minimum.</p> <p>3.4 The booster shall be supplied in completely assembled condition. BHEL shall connect the gas inlet & outlet lines, instrument connection. Vendor to inform accessories required (like air filter & regulator, SOV) etc. to be supplied by purchaser.</p> <p>3.5 All the sizing, material selection, design etc. shall be in line with ASME standard for pressure equipment.</p> <p>4.0 SPARES REQUIREMENT</p> <p>4.1 Commissioning spares required for commissioning the offered equipment as per vendor recommendation for all pneumatic equipment shall be included in Vendor's scope of supply along with the main equipment. Vendor to submit a list of such spares required along with the offer.</p> <p>4.2 Mandatory spares shall be as follows to be included in vendor's scope of supply. The word "TYPE" means the make, model no, range, size/length, rating, material as applicable.</p> <p>4.2.1 Pneumatic actuated booster:</p> <ul style="list-style-type: none"> • Pneumatic circuit spares (as applicable): all wear & tear parts and seals including: • Pneumatic cylinder-01 no • Air filter reducer-01 no • Snubber-01 no • Pneumatic distributor-01 no <p>4.2.2 Process side Booster spares: 01 set of all wear & tear parts and seals including:</p> <ul style="list-style-type: none"> • -gaskets • -seals • -o-rings • -check valve <p>4.2.3 Special tools kits & tackles: as per vendor recommendation.</p> <p>5.0 H₂ SERVICE REQUIREMENTS The wetted parts of booster shall be compliant to attached IOCL H₂ service requirements (Doc no: IPPX-6394-8440-SP-000-0028).</p> <p>6.0 DESIGN STANDARDS (AS APPLICABLE)</p> <p>6.1 European directive no 94/9/EC (ATEX)</p> <p>6.2 European directive no 97/23/EC (PED)</p> <p>6.3 ASME VIII Div. 1</p> <p>6.4 ANSI B16.34</p> <p>6.5 NACE MR0103 / MR0175</p> <p>6.6 Gas Hazardous area classification: IEC Zone-1, Gas group II C, T3.</p> | |
| Ref. Doc. | | | |

PRODUCT STANDARD

TC ENGINEERING

HYDERABAD

TC65442-13,14

Rev No. 00

Page 4 of 13

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7.0 PIPING REQUIREMENTS

7.1 Piping Interface connections

| Description | Type |
|----------------------|-------------------|
| Process gas inlet | 1" NPTF or higher |
| Process gas outlet | 1" NPTF or higher |
| Vent / drain | ½" NPTF or higher |
| Instrument air inlet | ½" NPTF or higher |

- 7.2 All the materials in contact with gas inlet / outlet and vent shall be of SS 316 or equivalent forging / casting materials.
- 7.3 All the materials in instrument airline shall be SS316 piping / tubing.
- 7.4 All Butt-welded joints shall be TIG welded and the welds shall be 100% radio graphed.
- 7.5 All the vent/ drain holes, if any shall be plugged with threaded plugs/caps.

8.0 DOCUMENTATION REQUIREMENTS

8.1 Along with technical offer, arranged in this sequence only:

- 8.1.1 Booster technical details.
- 8.1.2 Booster Performance / operation graphs / curves.
- 8.1.3 Booster Data sheets.
- 8.1.4 Instrument air consumption.
- 8.1.5 Recommended spares list along with special tools (if any).
- 8.1.6 Signed & stamped copy of this specification.
- 8.1.7 Filled in Check List.
- 8.1.8 Filled in PTR.
- 8.1.9 Filled in Deviation Format.
- 8.1.10 Filled in Price Schedule marked 'QUOTED' for each item.
- 8.1.11 Filled in Logistic Certificate.

8.2 Within 2 weeks of Placement of Order / LOI: Vendor shall submit following for approval for the documents as mentioned below within 2 weeks of Placement of PO /LOI:

- 8.2.1 General Arrangement drawing of seal gas booster giving overall dimensions. It shall show location / disposition of various equipment / Instruments on the booster and location of customer termination connection.
- 8.2.2 Bill of Material of all the equipment, instruments, components etc. The Bill of Material should clearly show the make and model of each component, which are subjected to BHEL / CUSTOMER approval.
- 8.2.3 Booster Data sheets.
- 8.2.4 Instrument datasheets.
- 8.2.5 Booster Performance / operation graphs / curves.
- 8.2.6 Quality assurance plan.
- 8.2.7 Spares list.

8.3 Final Documentation: Vendor shall furnish the following:

- 8.3.1 Documents mentioned 8.2.1 above.
- 8.3.2 Instruction, Service and Maintenance manual
- 8.3.3 Test and Inspection reports : 3 copies.
- 8.3.4 Guarantee Certificates : 3 copies.
- 8.3.5 Photographs for all views : 2 sets (In DVD, the digital photos shall be provided).

9.0 EQUIPMENT QUALIFICATION CRITERIA (EQC)

Seal Gas Booster shall be identical in frame size and identical or validly similar in terms of **application (seal gas supply to compressor seals)**, Type of drive, inlet and discharge pressures, inlet temperatures, flow, number and materials etc. as compared to **at least two units designed, manufactured, tested and supplied from the proposed manufacturing plant in last fifteen years**

PRODUCT STANDARD

TC ENGINEERING HYDERABAD

TC65442-13,14

Rev No. 00

Page 5 of 13

at least one of these units shall have been operating satisfactorily in the field for at least 8000 hours without any major problems as on the date of issue of enquiry.

Vendor shall furnish complete reference list / details (Proven track record) along with the offer. These details shall include Plant name, year of commissioning, number of operating hours completed and name of contact person(s) etc. for the seal gas booster similar to one being offered.

10.0 PROVEN TRACK RECORD

Vendor shall submit filled in PTR as per EQC listed in above clause.

11.0 INSPECTION AND TESTING REQUIREMENTS

All the equipment shall be subject to inspection and witness tests by Third Party Inspection agency. The schedule of quality checks shall be furnished by the vendor in the quality plan which is subject to the approval of BHEL. The minimum shall be as indicated in below table.

Quality Plan

| Sl. No. | Description | Type of check Quantum of check 100% | Ref. Documents | Type of Inspection | Agency |
|---------|-------------------------|---|--|---|---|
| 1 | Assembly of Booster | - Location of equipment - Correctness of flow Schematics - Overall dimensions | - Approved GA drawing | Physical check | Lloyd's / DNV / BV / TUV etc. |
| 2 | Welding (if applicable) | Type | Manufacturing drawings. | -Review of Radiograph certificate -Welding efficiency of 1 | |
| 3 | Booster | - Material Certification | -BHEL/ CUSTOMER Specification - Approved drgs / docs. | Verification of test report / certificate | |
| 4 | Gas leak test | - Leakage with HELIUM | --Do-- | Witness | |
| 5 | Name Plates | - Correctness | --Do-- | Physical check | |
| 6 | Performance test | -performance | Booster shall be tested to verify pressure & flow parameters | Witness | |

12.0 MARKING AND SHIPPING

12.1 Name plates: The Individual components shall be provided with Nameplates giving important details like make, model etc. Each component shall be provided with stainless steel Tag plates duly punching Tag Nos. as applicable on it.


12.2 Preparation for Shipment:

12.2.1 Equipment shall be suitably prepared for shipment. The preparation shall make the equipment suitable for 6 months of outdoor storage from the date of shipment.

12.2.2 Seal gas booster assembly shall be marked with details like, drawing no, job number, PO No. etc. at a convenient location.

12.2.3 Lifting Points and lifting lugs shall be clearly identified.

12.2.4 All Loose supplied items like flanges, nut-bolt, gaskets etc. if any, shall be listed out separately in the packing list.

| | | | |
|---|---|--|--|
| | Form No.  HYDERABAD | PRODUCT STANDARD TC ENGINEERING HYDERABAD | TC65442-13,14 Rev No. 00 Page 6 of 13 |
| COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company. | <p style="margin-left: 40px;">12.2.5 Adequate amount of silica gel or equivalent shall be provided in the box before dispatch for the removal of moisture till installation.</p> <p style="margin-left: 40px;">12.2.6 All safety instructions for storage and handling shall be indicated on external surface of the box.</p> <p>13.0 DEVIATIONS Bidder shall submit duly filled deviation format along with technical offer, otherwise, it will be presumed that there are no deviations from this specification. Offer without this deviation list will not be evaluated & shall be considered for rejection. If, there are no deviations, bidder shall submit signed copy of deviation format, mentioning “No Deviations”.</p> <p>14.0 GUARANTEE Refer ITB documents.</p> <p>15.0 TENDER EVALUATION CRITERIA</p> <p style="margin-left: 20px;">15.1 The total price for the complete package i.e. Main System, Mandatory spares, Supervision of erection & commissioning charges shall be considered for L1 evaluation.</p> <p style="margin-left: 20px;">15.2 Duly signed & stamped un-priced price schedule and unit prices shall be submitted along with technical offer by bidder as a token of concurrence that all items are quoted without which the offer will not be evaluated. For unpriced bid bidder to fill 'Quoted' for each item and submit (refer PRICE SCHEDULE format).</p> <p>16.0 TENDER REJECTION Non-compliance to inclusion of any the following documents with technical offer shall lead to rejection of the bids.</p> <p style="margin-left: 20px;">16.1 Filled in Check List not included.</p> <p style="margin-left: 20px;">16.2 Filled in PTR not included.</p> <p style="margin-left: 20px;">16.3 Filled in Deviation Format not included.</p> <p style="margin-left: 20px;">16.4 Filled in Price Schedule marked 'QUOTED' for each item not included.</p> <p style="margin-left: 20px;">16.5 Filled in Logistic Certificate not included.</p> <p>17.0 SPECIAL NOTES</p> <p style="margin-left: 20px;">17.1 Vendor shall confirm that the bill of material furnished along with offer is only indicative and the final BOM, which shall be furnished during detailed Engineering (after order placement) for the approval of BHEL. The additional items, if any required at later stage for complying BHEL specification or for the satisfactory working of the seal gas booster shall be supplied by vendor without any price/delivery implications</p> <p style="margin-left: 20px;">17.2 Vendor should bring out in his offer clause wise deviations if any, with respect to proposed supply along with price adder for withdrawing the deviation to comply with specification. Failure to highlight the same will be construed as acceptance on the part of the vendor to meet the requirement of this specification totally.</p> <p style="margin-left: 20px;">17.3 Vendor shall provide the relevant technical information and supporting documents whenever asked for by the customer/ consultant.</p> <p style="margin-left: 20px;">17.4 Vendor to clearly bring out any additional requirements, which are essential for proper functioning of the Seal Gas Booster. This shall be included in the offer.</p> | | |
| Ref. Doc. | | | |

Form No.



PRODUCT STANDARD
TC ENGINEERING
HYDERABAD

TC65442-13,14

Rev No. 00

Page 7 of 13

18.0 Check List

(To be filled by the vendor and submitted along with the offer without which offer will not be considered)

| Sl. No | Description | Vendor Confirmation (Yes/No) |
|--------|--|------------------------------|
| 1 | Booster technical details, catalog included. | |
| 2 | Booster Performance / operation graphs / curves included. | |
| 3 | Booster Data sheets included. | |
| 4 | Instrument air consumption included. | |
| 5 | Commissioning spares list included. (As per vendor recommendation) | |
| 6 | Mandatory spares list included. | |
| 7 | Special tools (if any) included. | |
| 8 | Signed & stamped copy of this specification included. | |
| 9 | Filled in Check List included. | |
| 10 | Filled in PTR included. | |
| 11 | Filled in Deviation Format included. | |
| 12 | Filled in Price Schedule marked 'QUOTED' for each item included. | |
| 13 | Filled in Logistic Certificate included. | |

VENDOR SIGNATURE WITH SEAL

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PRODUCT STANDARD
TC ENGINEERING
HYDERABAD

TC65442-13,14

Rev No. 00

Page 8 of 13

19.0 PTR Format

- 19.1 Name of the Bidder
 19.2 Whether manufacturer & supplier:
 19.3 Whether System Integrator & Supplier:
 19.4 Name of Packager:

| Sl.No | PTR Requirement | Ref-1 | Ref-2 | Ref-3 | Ref-4 |
|-------|--|-------|-------|-------|-------|
| 1 | Description of item as manufactured & Supplied/ engineered (identify bidder's scope of work) | | | | |
| 2 | Plant / Purchaser's name, address, Tel no, Fax no, email and contact person | | | | |
| 3 | Application (seal gas supply to compressor seals) | | | | |
| 4 | Type of drive, | | | | |
| 5 | Inlet and discharge pressures, flow | | | | |
| 6 | Material | | | | |
| 7 | Make & model no of the booster supplied. | | | | |
| 8 | Date of order placed | | | | |
| 9 | Contractual completion date | | | | |
| 10 | Actual completion date/ month & year of commissioning | | | | |
| 11 | Number of operating hours completed | | | | |
| 12 | Reasons of delay if any | | | | |
| 13 | Details of major break down till date. | | | | |

VENDOR SIGNATURE WITH SEAL

Vendor to furnish the complete exhaustive reference list separately for our review.

Form No.



**PRODUCT STANDARD
TC ENGINEERING
HYDERABAD**

TC65442-13,14

Rev No. 00

Page 9 of 13

20.0 Deviation Format

| Sl.No | Clause No. of Specification | Deviation | Reason for deviation | Deviation category | |
|-------|-----------------------------|-----------|----------------------|---------------------------|--------------|
| | | | | Product/design limitation | Optimization |
| | | | | | |
| | | | | | |
| | | | | | |
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Form No.



**PRODUCT STANDARD
TC ENGINEERING
HYDERABAD**

TC65442-13,14

Rev No. 00

Page 10 of 13

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21.0 Logistic support certificate:

CERTIFICATE FOR LOGISTIC SUPPORT

(TO BE SIGNED BY **VENDOR'S PRINCIPAL** (Original equipment manufacturer)
CORPORATE LEVEL SIGNATORY ON COMPANY LETTERHEAD)

I, ON BEHALF OF M/s, ----- CONFIRM THAT THE SEAL GAS BOOSTER QUOTED BY M/s -----FOR <PROJECT NAME OF BHEL / BHEL CUSTOMER> (INDIA) SHALL CONTINUED TO BE SUPPORTED BY US AND QUOTED SYSTEM SHALL NOT BE WITHDRAWN FROM "INDIAN" MARKET AS A MATTER OF CORPORATE POLICY.

I, FURTHER CONFIRM THAT IN CASE OF PLACEMENT OF ORDER ON US, <BHEL / BHEL CUSTOMER> (INDIA) SHALL BE SUPPORTED IN PROVIDING BACK-UP ENGINEERING, MAINTENANCE SUPPORT AND SPARE PART SUPPORT FOR A PERIOD OF NOT LESS THAN TEN (10) YEARS FROM THE DATE OF PLACEMENT OF ORDER.

(SIGNATURE WITH SEAL)

CERTIFICATE FOR LOGISTIC SUPPORT

(TO BE SIGNED BY **VENDOR'S CORPORATE** (Bidder for the enquiry) LEVEL SIGNATORY
ON COMPANY LETTERHEAD)

I, ON BEHALF OF M/s -----CONFIRM THAT THE SEAL GAS BOOSTER QUOTED BY US FOR <PROJECT NAME OF BHEL / BHEL CUSTOMER> (INDIA), SHALL CONTINUE TO BE SUPPORTED BY US AND OUR PRINCIPAL M/S -----

I, FURTHER CONFIRM THAT IN CASE OF PLACEMENT OF ORDER ON US WE SHALL CONTINUE TO SUPPORT M/S <BHEL / BHEL CUSTOMER> (INDIA) IN PROVIDING BACK-UP ENGINEERING, MAINTENANCE SUPPORT AND SPARE PART SUPPORT FOR A PERIOD OF NOT LESS THAN TEN (10) YEARS FROM THE DATE OF PLACEMENT OF ORDER.

(SIGNATURE WITH SEAL)

Ref.
Doc.

Form No.



**PRODUCT STANDARD
TC ENGINEERING
HYDERABAD**

TC65442-13,14

Rev No. 00

Page 11 of 13

CERTIFICATE FOR LOGISTIC SUPPORT

(TO BE SIGNED BY "Bidders **VENDOR**" **CORPORATE** LEVEL SIGNATORY ON COMPANY LETTERHEAD)

Applicable for all major sub-systems bought-out by the bidder

I, ON BEHALF OF M/s, ----- CONFIRM THAT THE ----- QUOTED BY THROUGH M/S----- FOR <PROJECT NAME OF BHEL / BHEL CUSTOMER> (INDIA), SHALLCONTINUE TO BE SUPPORTED BY US AND OUR PRINCIPAL M/S -----

I, FURTHER CONFIRM THAT IN CASE OF PLACEMENT OF ORDER ON US, WE SHALL CONTINUE TO SUPPORT M/S <BHEL / BHEL CUSTOMER> (INDIA) IN PROVIDING BACK-UP ENGINEERING, MAINTENANCE SUPPORT AND SPARE PART SUPPORT FOR A PERIOD OF NOT LESS THAN TEN (10) YEARS FROM THE DATE OF PLACEMENT OF ORDER.

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Ref.
Doc.

PRODUCT STANDARD

TC ENGINEERING HYDERABAD

TC65442-13,14

Rev No. 00

Page 12 of 13

22.0 PROJECT SPECIFIC BOOSTER TECHNICAL DATA & PRICE SCHEDULE:

22.1 PROJECT SPECIFIC TECHNICAL DATA FOR SEAL GAS BOOSTER- MCA1067:

22.1.1 Utility: Instrument Air (for pneumatic drive)

| SL NO | PARAMETER | MIN | NOR | MAX | MECH. DESIGN |
|-------|---------------------------------|-----|-----|-----|--------------|
| a | Pressure (kg/cm ² g) | 4.5 | 6.5 | 8 | 10.5 |
| b | Temperature (°C) | 40 | 40 | 50 | 65 |

22.1.2 Design conditions-Process (MCA1067)

| SL NO | PARAMETER | VALUE |
|-------|---------------------------------|---------------------------|
| a | Design Pressure | 21 kg/cm ² g |
| b | Maximum Working Temperature | 170 °C |
| c | Gas leak test Pressure (HELIUM) | 31.5 kg/cm ² g |

22.1.3 Operating conditions (MCA1067):

| SL NO | PARAMETER | VALUE | | | |
|-------|---|--------------------|--------------------|--------------------|--------|
| | | Case-1 | Case-2 | Case-3 | Case-4 |
| a | Operating case | | | | |
| b | Inlet Pressure (Kg/Cm ² (g)) | 3.5 | 5 | 6.5 | |
| c | Inlet Temperature (deg C) | 15 | 40 | 45 | |
| d | Gas Mol Wt. (Refer Gas Composition) | 28.016 (nitrogen)# | 28.016 (nitrogen)# | 28.016 (nitrogen)# | |
| e | Flow (ACM ³ /Hr)-required | * | * | * | |
| f | Pressure increase (ΔP required, Kg/Cm ²) | 2 | 2 | 2 | |
| g | QTY of Booster (vendor to indicate) | | | | |
| h | Maximum Flow (ACM ³ /Hr) possible with selected single booster | | | | |
| i | Maximum Flow (Kg/Hr) possible with selected single booster | | | | |

*** For all operating cases, vendor to inform the maximum gas flow possible from selected booster.**

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Form No.



**PRODUCT STANDARD
TC ENGINEERING
HYDERABAD**

TC65442-13,14

Rev No. 00

Page 13 of 13

22.2 PRICE SCHEDULE: : SEAL GAS BOOSTER

22.2.1 Offer ref no.:

22.2.2 Offer date:

22.2.3 Enquiry ref. no:

22.2.4 Enquiry date:

| Sl.No. | DESCRIPTION | RFQ Qty | Booster Qty per set | Unit Price | Total Price |
|--------|--|-------------|---------------------|------------|-------------|
| 1 | SEAL GAS BOOSTER-MCA1067(TC9765442130) along with commissioning spares / special tools (as per vendor recommendation clause 4.1 & 4.2.3) | | | | |
| 2 | Seal Gas Booster Spares-MCA1067 (TC9765442149) as listed in clause 4.2.1 & 4.2.2 | | -- | | |
| 3 | Additional price to withdraw the deviations if any taken by vendor for respective clause of BHEL specification. | Clause wise | | | |
| 4 | Total Price for L1 Evaluation • 1+2 | | | | |

Notes:

- i. Any additional requirements, which are essential for proper functioning of the seal gas booster but not indicated in specification, are included in the offer.
- ii. Vendor shall submit UNIT PRICE for all spare items for the booster.

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