

Bid Document

| Bid Details | |
|--|---|
| Bid End Date/Time | 10-09-2021 14:00:00 |
| Bid Opening Date/Time | 10-09-2021 14:30:00 |
| Bid Life Cycle (From Publish Date) | 90 (Days) |
| Bid Offer Validity (From End Date) | 65 (Days) |
| Ministry/State Name | Ministry Of Heavy Industries And Public Enterprises |
| Department Name | Department Of Heavy Industry |
| Organisation Name | Bharat Heavy Electricals Limited (bhel) |
| Office Name | Boiler Auxiliaries Plant Ranipet |
| Total Quantity | 34 |
| Item Category | <p>RFW112160001-For Horizontal Duct Size 5900mm x 2900 mm, FRP Pipe length 5900 mm, Design Temp 90 deg , RFW112160002-For Horizontal Duct Size 2900mm x 4000 mm, FRP Pipe length 2900 mm, Design Temp 175 deg , RFW112160003-For Vertical Duct Size 4000mm x 2900 mm, Design Temp 90 deg C continuous and 310 deg C , RFW112160004-Supervision for installation of non metallic exp joint of SI 01 to 03 , RFW112370001-For Horizontal Duct Size 9900mm x 8800mm, FRP Pipe length 9900 mm, Design Temp 90 deg C , RFW112370002-For Horizontal Duct Size 5600mm x 13200 mm, FRP Pipe length 5600 mm, Design Temp 90 deg , RFW112370003-Supervision for installation of non metallic exp joint of SI 5 to 6 , RFW112510001-For Vertical Duct Size 7324mm x 14918mm, Design Temp 150 deg C continuous and 300 deg C , RFW112510002-For Vertical Duct Size 21900mm x 4400mm, Design Temp 150 deg C continuous and 300 deg , RFW112510003-For Vertical Duct Size 13500mm x 6500mm, Design Temp 150 deg C continuous and 300 deg , RFW112510004-For Horizontal Duct Size 13500mm x 6500mm, FRP Pipe length 13500 mm, Design Temp 150 de , RFW112510005-For Horizontal Duct Size 5000mm x 8750mm, FRP Pipe length 5000 mm, Design Temp 150 deg , RFW112510006-Supervision for installation of non metallic exp joint of SI 8 to 12</p> |
| Minimum Average Annual Turnover of the Bidder | 25 Lakh (s) |
| Years of Past Experience required | 1 Year (s) |
| MSE Exemption for Turnover | Yes |
| Startup Exemption for Turnover | Yes |

Bid Details

| | |
|--|--|
| Document required from seller | Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer |
| Bid to RA enabled | Yes |
| RA Qualification Rule | 50% Lowest Priced Technically Qualified Bidders |
| Primary product category | RFW112510006-Supervision for installation of non metallic exp joint of SI 8 to 12 |
| Time allowed for Technical Clarifications during technical evaluation | 2 Days |
| Estimated Bid Value | 7361000 |
| Evaluation Method | Group wise evaluation |

EMD Detail

| | |
|----------|----|
| Required | No |
|----------|----|

ePBG Detail

| | |
|-------------------------------------|---------------------|
| Advisory Bank | State Bank of India |
| ePBG Percentage(%) | 10.00 |
| Duration of ePBG required (Months). | 18 |

(a). The EMD % will be applicable for each schedule/group selected during Bid creation.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

Executive Finance

Purchase-MM, First Floor, Admin building, Boiler Auxiliaries Plant (BAP), Bharat Heavy Electricals Limited (BHEL), Ranipet 632406, TamilNadu
(Accounts Officer)

Splitting

Bid splitting not applied.

MII Purchase Preference

| | |
|-------------------------|-----|
| MII Purchase Preference | Yes |
|-------------------------|-----|

MSE Purchase Preference

1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. 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 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
6. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.
7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.
8. Reverse Auction would be conducted amongst first 50% of the technically qualified bidders arranged in the order of prices from lowest to highest. Number of sellers eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L-1 to L-4). In case number of technically qualified bidders are 2 or 3, RA will be between all without any elimination. If Buyer has chosen to split the bid amongst N sellers, then minimum N sellers would be taken to RA round. In case Primary products of only one OEM are left in contention for

participation in RA based on lowest 50% bidders qualifying for RA, the number of sellers qualifying for RA would be increased to get at least products of one more OEM (directly participated or through its reseller) if available. Further, if bid(s) of any seller(s) eligible for MSE preference is / are coming within price band of 15% of Non MSE L-1 or if bid of any seller(s) eligible for Make in India preference is / are coming within price band of 20% of non MII L-1, then such MSE / Make in India seller shall also be allowed to participate in the RA process.

Evaluation Method (Group Wise Evaluation Method)

Contract will be awarded schedulewise and the determination of L1 will be done separately for each schedule. The details of item-consignee combination covered under each schedule are as under:

| Evaluation Schedules | Estimated Value | Item/Category | Consignee/Reporting Officer | Consignee Address | Quantity |
|------------------------------|------------------------|--|------------------------------------|--------------------------|-----------------|
| Sch 1 Package NALCO | 1475000 | Rfw112160001-for Horizontal Duct Size 5900mm X 2900 Mm, Frp Pipe Length 5900 Mm, Design Temp 90 Deg | Site Inchargs, Stores-BHEL | NALCO Damanjodi | 1 |
| | | Rfw112160002-for Horizontal Duct Size 2900mm X 4000 Mm, Frp Pipe Length 2900 Mm, Design Temp 175 Deg | Site Inchargs, Stores-BHEL | NALCO Damanjodi | 2 |
| | | Rfw112160003-for Vertical Duct Size 4000mm X 2900 Mm, Design Temp 90 Deg C Continuous And 310 Deg C | Site Inchargs, Stores-BHEL | NALCO Damanjodi | 2 |
| | | Rfw112160004-supervision For Installation Of Non Metallic Exp Joint Of SI 01 To 03 | Site Inchargs, Stores-BHEL | NALCO Damanjodi | 5 |
| Sch 2 Package BHUSAWAL | 1205000 | Rfw112370001-for Horizontal Duct Size 9900mm X 8800mm, Frp Pipe Length 9900 Mm, Design Temp 90 Deg C | Site Inchargs, Stores-BHEL | MAHAGENCO BHUSAWAL | 1 |
| | | Rfw112370002-for Horizontal Duct Size 5600mm X 13200 Mm, Frp Pipe Length 5600 Mm, Design Temp 90 Deg | Site Inchargs, Stores-BHEL | MAHAGENCO BHUSAWAL | 1 |
| | | Rfw112370003-supervision For Installation Of Non Metallic Exp Joint Of SI 5 To 6 | Site Inchargs, Stores-BHEL | MAHAGENCO BHUSAWAL | 2 |
| Sch 3 Package PANKI | 4681000 | Rfw112510001-for Vertical Duct Size 7324mm X 14918mm, Design Temp 150 Deg C Continuous And 300 Deg C | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 3 |
| | | Rfw112510002-for Vertical Duct Size 21900mm X 4400mm, Design Temp 150 Deg C Continuous And 300 Deg | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 1 |
| | | Rfw112510003-for Vertical Duct Size 13500mm X 6500mm, Design Temp 150 Deg C Continuous And 300 Deg | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 1 |
| | | Rfw112510004-for Horizontal Duct Size 13500mm X 6500mm, Frp Pipe Length 13500 Mm, Design Temp 150 De | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 1 |

| | | | | |
|--|---|----------------------------|---------------|----|
| | Rfw112510005-for Horizontal Duct Size 5000mm X 8750mm, Frp Pipe Length 5000 Mm, Design Temp 150 Deg | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 4 |
| | Rfw112510006-supervision For Installation Of Non Metallic Exp Joint Of SI 8 To 12 | Site Inchargs, Stores-BHEL | UPRVUNL Panki | 10 |

RFW112160001-For Horizontal Duct Size 5900mm X 2900 Mm, FRP Pipe Length 5900 Mm, Design Temp 90 Deg (1 set)

(Minimum 50% Local content required for MII compliance)

| | |
|------------|-----------|
| Brand Type | Unbranded |
|------------|-----------|

Technical Specifications

| | |
|------------------------------|--------------------------|
| Buyer Specification Document | Download |
|------------------------------|--------------------------|

Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-----------------------------|------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,NALCO Damanjodi | 1 | 90 |

RFW112160002-For Horizontal Duct Size 2900mm X 4000 Mm, FRP Pipe Length 2900 Mm, Design Temp 175 Deg (2 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-----------------------------|------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,NALCO Damanjodi | 2 | 90 |

RFW112160003-For Vertical Duct Size 4000mm X 2900 Mm, Design Temp 90 Deg C Continuous And 310 Deg C (2 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,NALCO Damanjodi | 2 | 90 |

RFW112160004-Supervision For Installation Of Non Metallic Exp Joint Of SI 01 To 03 (5 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,NALCO Damanjodi | 5 | 180 |

RFW112370001-For Horizontal Duct Size 9900mm X 8800mm, FRP Pipe Length 9900 Mm, Design Temp 90 Deg C (1 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|---------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,MAHAGENCO BHUSAWAL | 1 | 90 |

RFW112370002-For Horizontal Duct Size 5600mm X 13200 Mm, FRP Pipe Length 5600 Mm, Design Temp 90 Deg (1 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|---------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,MAHAGENCO BHUSAWAL | 1 | 90 |

RFW112370003-Supervision For Installation Of Non Metallic Exp Joint Of SI 5 To 6 (2 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|---------------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,MAHAGENCO BHUSAWAL | 2 | 180 |

RFW112510001-For Vertical Duct Size 7324mm X 14918mm, Design Temp 150 Deg C Continuous And 300 Deg C (3 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-----------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 3 | 90 |

RFW112510002-For Vertical Duct Size 21900mm X 4400mm, Design Temp 150 Deg C Continuous And 300 Deg (1 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-----------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 1 | 90 |

RFW112510003-For Vertical Duct Size 13500mm X 6500mm, Design Temp 150 Deg C Continuous And 300 Deg (1 set)

(Minimum 50% Local content required for MII compliance)

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|------------|-----------|
| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 1 | 90 |

RFW112510004-For Horizontal Duct Size 13500mm X 6500mm, FRP Pipe Length 13500 Mm, Design Temp 150 De (1 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 1 | 90 |

RFW112510005-For Horizontal Duct Size 5000mm X 8750mm, FRP Pipe Length 5000 Mm, Design Temp 150 Deg (4 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 4 | 90 |

RFW112510006-Supervision For Installation Of Non Metallic Exp Joint Of SI 8 To 12 (10 set)

(Minimum 50% Local content required for MII compliance)

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| Brand Type | Unbranded |
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Technical Specifications

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Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-------------------------------|----------------|----------|---------------|
| 1 | Site Inchargs, Stores-BHEL | ,UPRVUNL Panki | 10 | 180 |

Buyer added Bid Specific Additional Scope of Work

| S.No. | Document Title | Description | Applicable i.r.o. Items |
|-------|----------------|-------------|-------------------------|
| | | | |

| S.No. | Document Title | Description | Applicable i.r.o. Items |
|-------|-----------------------------|-------------|--|
| 1 | NIT View | NIT | RFW112160001-For Horizontal Duct Size 5900mm X 2900 Mm, FRP Pipe Length 5900 Mm, Design Temp 90 Deg(1),RFW112160002-For Horizontal Duct Size 2900mm X 4000 Mm, FRP Pipe Length 2900 Mm, Design Temp 175 Deg(2),RFW112160003-For Vertical Duct Size 4000mm X 2900 Mm, Design Temp 90 Deg C Continuous And 310 Deg C(2),RFW112160004-Supervision For Installation Of Non Metallic Exp Joint Of SI 01 To 03(5),RFW112370001-For Horizontal Duct Size 9900mm X 8800mm, FRP Pipe Length 9900 Mm, Design Temp 90 Deg C(1),RFW112370002-For Horizontal Duct Size 5600mm X 13200 Mm, FRP Pipe Length 5600 Mm, Design Temp 90 Deg(1),RFW112370003-Supervision For Installation Of Non Metallic Exp Joint Of SI 5 To 6(2),RFW112510001-For Vertical Duct Size 7324mm X 14918mm, Design Temp 150 Deg C Continuous And 300 Deg C(3),RFW112510002-For Vertical Duct Size 21900mm X 4400mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510003-For Vertical Duct Size 13500mm X 6500mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510004-For Horizontal Duct Size 13500mm X 6500mm, FRP Pipe Length 13500 Mm, Design Temp 150 De(1),RFW112510005-For Horizontal Duct Size 5000mm X 8750mm, FRP Pipe Length 5000 Mm, Design Temp 150 Deg(4),RFW112510006-Supervision For Installation Of Non Metallic Exp Joint Of SI 8 To 12(10) |

| S.No. | Document Title | Description | Applicable i.r.o. Items |
|-------|----------------------------------|---|--|
| 2 | Qual Req View | Quality Requirement with annexure Q for quality terms | RFW112160001-For Horizontal Duct Size 5900mm X 2900 Mm, FRP Pipe Length 5900 Mm, Design Temp 90 Deg(1),RFW112160002-For Horizontal Duct Size 2900mm X 4000 Mm, FRP Pipe Length 2900 Mm, Design Temp 175 Deg(2),RFW112160003-For Vertical Duct Size 4000mm X 2900 Mm, Design Temp 90 Deg C Continuous And 310 Deg C(2),RFW112160004-Supervision For Installation Of Non Metallic Exp Joint Of SI 01 To 03(5),RFW112370001-For Horizontal Duct Size 9900mm X 8800mm, FRP Pipe Length 9900 Mm, Design Temp 90 Deg C(1),RFW112370002-For Horizontal Duct Size 5600mm X 13200 Mm, FRP Pipe Length 5600 Mm, Design Temp 90 Deg(1),RFW112370003-Supervision For Installation Of Non Metallic Exp Joint Of SI 5 To 6(2),RFW112510001-For Vertical Duct Size 7324mm X 14918mm, Design Temp 150 Deg C Continuous And 300 Deg C(3),RFW112510002-For Vertical Duct Size 21900mm X 4400mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510003-For Vertical Duct Size 13500mm X 6500mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510004-For Horizontal Duct Size 13500mm X 6500mm, FRP Pipe Length 13500 Mm, Design Temp 150 De(1),RFW112510005-For Horizontal Duct Size 5000mm X 8750mm, FRP Pipe Length 5000 Mm, Design Temp 150 Deg(4),RFW112510006-Supervision For Installation Of Non Metallic Exp Joint Of SI 8 To 12(10) |

| S.No. | Document Title | Description | Applicable i.r.o. Items |
|-------|---|----------------------------------|--|
| 3 | MII View | Make in india declaration format | RFW112370001-For Horizontal Duct Size 9900mm X 8800mm, FRP Pipe Length 9900 Mm, Design Temp 90 Deg C(1),RFW112370002-For Horizontal Duct Size 5600mm X 13200 Mm, FRP Pipe Length 5600 Mm, Design Temp 90 Deg(1),RFW112370003-Supervision For Installation Of Non Metallic Exp Joint Of SI 5 To 6(2),RFW112510001-For Vertical Duct Size 7324mm X 14918mm, Design Temp 150 Deg C Continuous And 300 Deg C(3),RFW112510002-For Vertical Duct Size 21900mm X 4400mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510003-For Vertical Duct Size 13500mm X 6500mm, Design Temp 150 Deg C Continuous And 300 Deg(1),RFW112510004-For Horizontal Duct Size 13500mm X 6500mm, FRP Pipe Length 13500 Mm, Design Temp 150 De(1),RFW112510005-For Horizontal Duct Size 5000mm X 8750mm, FRP Pipe Length 5000 Mm, Design Temp 150 Deg(4),RFW112510006-Supervision For Installation Of Non Metallic Exp Joint Of SI 8 To 12(10) |
| 4 | Technical specification View | Technical specification | |

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Additional Terms and Conditions

1. After award of contract - Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 5 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 15 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing- the delivery period shall be refixed without LD for the period of delay in approval of Drawing.
2. Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address AS Per NIT ` ` ` ` `.
3. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

4. Bidder shall submit the following documents along with their bid for Vendor Code Creation:
 - a. Copy of PAN Card.
 - b. Copy of GSTIN.
 - c. Copy of Cancelled Cheque.
 - d. Copy of EFT Mandate duly certified by Bank.
5. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
6. **OPTIONAL SITE VISIT:**
 1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder. Yes
 2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.
 3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.
7. Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
8. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:
 - i) The Seller fails to comply with any material term of the Contract.
 - ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
 - iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
 - iv) The Seller becomes bankrupt or goes into liquidation.
 - v) The Seller makes a general assignment for the benefit of creditors.
 - vi) A receiver is appointed for any substantial property owned by the Seller.
 - vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.
9. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:

Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): Thru CQIR portal by AIA-TPI

Post Receipt Inspection at consignee site before acceptance of stores: By BHEL
10. **NET WORTH:** Net Worth of the OEM should be positive as per the last audited financial statement.
11. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
12. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 20% of total value.
13. Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
 - ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
 - iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.
14. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
15. Buyer Added text based ATC clauses
1. **Quote shall be in INR only inclusive of Taxes (GST).**
 2. MSE firm shall upload the UDYAM portal registration certificate
 3. Documentary evidences shall be uploaded for PQR
 4. Bidder shall submit the filled-in signed stamped copy of (a) Technical specification, (b) NIT, (c) Quality plan (all pages), (d) Make in India declaration on bidders letter-head, as per the format attached
 5. CEBG to be submitted for 2% of PO material value, in addition to the 10% of PBG shall be valid for 24 months from the date of supply plus 3 months for claim period.
- .
16. Warranty period of the supplied products shall be 2 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---

NIT

BHEL Ranipet Enq for.: NMEJ-Panki, Bhusawal, NALCO

Date: 17-08-2021

Sub: Requirement for "Supply and Supervision for installation of Non-Metallic Expansion Joint as per Scope" for BHEL Site by BHEL-Ranipet.

Scope of supply: As subjected above in confirmation with Quality plan. The package consists of:

| Enq sl no | BHEL Material code | Description | Unit | Qty | Quoted/Not Quoted |
|---|--------------------|---|------|-----|-------------------|
| Package1: Sch 1 : NMEJ NALCO, Delivery by 24-03-2022 | | | | | |
| 1 | RFW112160001 | NMEJ For Horizontal Duct Size 5900mm x 2900 mm, FRP Pipe length 5900 mm, Design Temp 90 deg C continuous and 310 deg C for 15 min, at NALCO, Damanjodi | Set | 1 | |
| 2 | RFW112160002 | NMEJ For Horizontal Duct Size 2900mm x 4000 mm, FRP Pipe length 2900 mm, Design Temp 175 deg C continuous and 310 deg C for 15 min, at NALCO, Damanjodi | Set | 2 | |
| 3 | RFW112160003 | NMEJ For Vertical Duct Size 4000mm x 2900 mm, Design Temp 90 deg C continuous and 310 deg C for 15 min, at NALCO, Damanjodi | set | 3 | |
| 4 | RFW112160004 | Supervision for installation of non metallic exp joint of S 01 to 03 | set | 6 | |

| Enq sl no | BHEL Material code | Description | Unit | Qty | Quoted/Not Quoted |
|---|--------------------|--|------|-----|-------------------|
| Package 2: Sch 2 : NMEJ Bhusawal, Delivery by 24-03-2022 | | | | | |
| 5 | RFW112370001 | For Horizontal Duct Size 9900mm x 8800mm, FRP Pipe length 9900 mm, Design Temp 90 deg C continuous and 300 deg C for 30 min, at MAHAGENCO-Bhusawal | Set | 1 | |
| 6 | RFW112370002 | For Horizontal Duct Size 5600mm x 13200 mm, FRP Pipe length 5600 mm, Design Temp 90 deg C continuous and 300 deg C for 30 min, at MAHAGENCO-Bhusawal | Set | 1 | |
| 7 | RFW112370003 | Supervision for installation of non metallic exp joint of S 5 to 6 | set | 2 | |

| Enq sl no | BHEL Material code | Description | Unit | Qty | Quoted/Not Quoted |
|--|--------------------|---|------|-----|-------------------|
| Package 3: Sch 3 : NMEJ Panki, Delivery by 24-12-2021 | | | | | |
| 8 | RFW112510001 | For Vertical Duct Size 7324mm x 14918mm, Design Temp 150 deg C continuous and 300 deg C for 30 min, at NTPC/UPRVUNL-Panki | Set | 3 | |
| 9 | RFW112510002 | For Vertical Duct Size 21900mm x 4400mm, Design Temp 150 deg C continuous and 300 deg C for 30 min, at NTPC/UPRVUNL-Panki | Set | 1 | |
| 10 | RFW112510003 | For Vertical Duct Size 13500mm x 6500mm, Design Temp 150 deg C continuous and 300 deg C for 30 min, at NTPC/UPRVUNL-Panki | set | 1 | |

| | | | | | |
|----|--------------|---|-----|----|--|
| 11 | RFW112510004 | For Horizontal Duct Size 13500mm x 6500mm, FRP Pipe length 13500 mm, Design Temp 150 deg C continuous and 300 deg C for 30 min, at NTPC/UPRVUNL-Panki | Set | 1 | |
| 12 | RFW112510005 | For Horizontal Duct Size 5000mm x 8750mm, FRP Pipe length 5000 mm, Design Temp 150 deg C continuous and 300 deg C for 30 min, at NTPC/UPRVUNL-Panki | Set | 4 | |
| 13 | RFW112510006 | Supervision for installation of non metallic expansion joint of S 8 to 12 | Set | 10 | |

Destination: BHEL Site

Delivery required date: As per above table or within 3 months from the date of manufacturing clearance, whichever is later. Bidder to quote the best possible delivery from the date of manufacturing clearance. Abnormal quoted delivery, liable for rejection of offer.

Pre-Qualification requirement (PQR):

1. Technical -.

| SL | Pre-Qualification Requirement (PQR) | Bidder's Reply with Supportive documents |
|----|---|--|
| 1 | Vendor should be a manufacturer of Non Metallic expansion joints for Thermal powerplant/FGD outlet duct in a flue gas path. Vendor to submit the relevant documentary evidence, as PO copy from the customer for previously supplied. | |

2. Financial soundness: Bidder should have minimum annual turnover of INR 25 lakhs (INR Twenty-Five Lakhs only). Bidder to submit the Audited balance sheet or/and CA certified Profit and Loss account for previous three continuous years (Any one of: FY 2018-2021 or 2017-2020 or 2016-2019).

Technical requirement

- (a). **Manufacturing: Document Submission-** Drawing, Data sheet and quality plan shall be submitted upon ordering for approval by BHEL. **Manufacturing clearance** will be provided upon approval of drawing with data sheet and QAP. Manufacturing shall be as per attached technical specification in the bid, Approved drawing, Quality plan and Data sheet. **Inspection:** as per Cl (b) below stated. **Dispatch Clearance:** Upon submission of inspection reports along with test certificates in original and Packing list dispatch clearance will be provided by BHEL.
- (b). **Inspection:** Inspection (call to be raised by supplier at BHEL CQIR portal) before despatch at supplier's works (as per Quality terms and Quality plan) by BHEL/ authorised agency (TPI-Third Party Inspection) for indigenous supplies at BHEL cost. Inspection includes for painting and packing also, as applicable. All the Test and inspection reports shall be sent to BHEL-Ranipet for review and dispatch clearance.
- (c). **Packing requirement:** Packing shall be waterproof. All items shall be packed in steel container as per technical spec. and the material code with description & Supplier name shall be marked on the packing.

- (d). **Documents:** Accepted IR copy along with relevant test certificates (in original) before despatch to be given to BHEL. This is required for Dispatch clearance.
- (e). **Reverse Auction** shall be conducted, Item wise L1 shall be taken for Ordering.
- (f). **Delivery Location:** FOR destination (BHEL Site), as per bid

Note:

1. Quote shall be in INR only
2. Relevant documents/ formats are attached in Additional scope of GeM bid.
3. Quoted rate shall be inclusive of GST, as per GeM terms and condition.
4. Non Submission of any of required documents as listed below, attracts for offer rejection.

List of documents to be attached (signed stamped copy):

1. NIT and GeM bid copy
2. Tech spec filled in along with all annexures
3. Filled in QAP (Sample attached)
4. Filled-in Make in India declaration on Letter head (format attached)
5. Udyam portal registration copy if MSE bidder
6. PQR-Technical documents
7. PQR-Financial documents

For any query: Kindly provide the "NM EJ-nalco/ Bhus/ Panki" in the subject of mail.

mail: ckbharti@bhel.in; vjm@bhel.in

Ph: 9488 58 9287 / 7010 75 1675

You may raise the query through GeM also.



Bharat Heavy Electricals Ltd
Boiler Auxiliaries Plant
Ranipet-632 406

FLUE GAS DESULPHURISATION DEPT

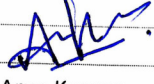

TECHNICAL SPECIFICATION

SPECIFICATION NO. ABR:DUCT:NMEJ

REV NO:00

PAGE NO 01 OF 03

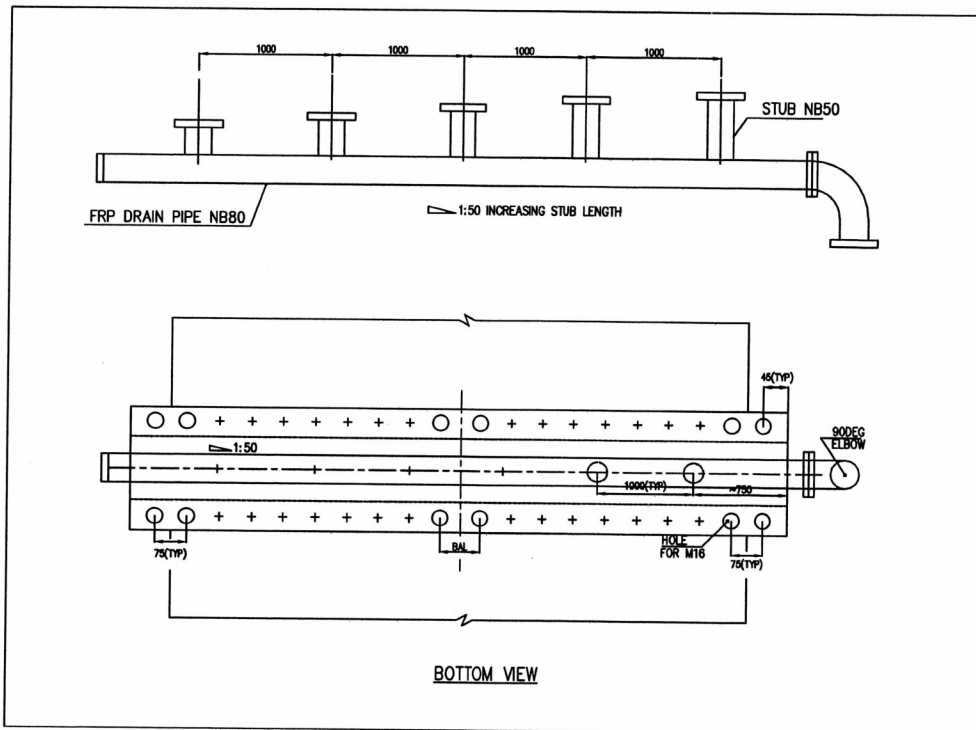
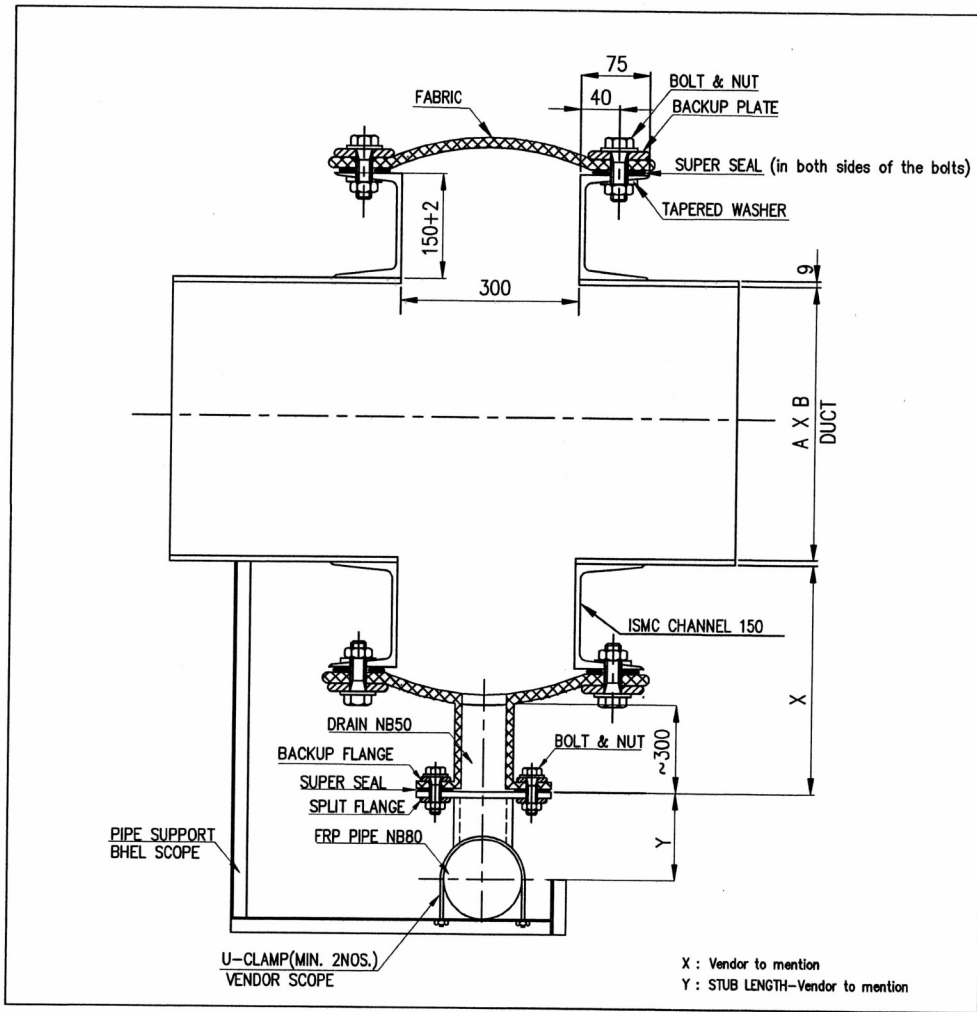
| S.no | Item | Neck Flange type Non-Metallic Expansion Joints | Vendor Acceptance/ Comments |
|------|---|---|-----------------------------|
| 1 | Scope of supply | (1) Fabric cloth, super seal gasket, back up plate & fasteners. (2)FRP pipe for horizontal ducts, super seal gasket, backup flange on the cloth side and split type backup flange on the FRP flange & fasteners with elbow and dummy flange. (3)Supervision of Installation of above two in the duct at site. | |
| 2 | Qualification Criteria | Supplier should be a manufacturer of Non-Metallic Expansion Joins and should have successfully installed the expansion joints of similar design in thermal power plant/FGD outlet duct in a flue gas path. Unpriced PO copies shall be submitted by the vendor as proof of experience. | |
| 3 | Mounting type | Neck design as per enclosed sketch | |
| 4 | Location | Absorber to Chimney Duct (for carrying Flue Gas) | |
| 5 | Design Temperature | Refer enquiry/indent. Material of Fabric cloth & FRP drain pipe (as applicable) shall be suitable for the design temperature. | |
| 6 | Design/ working pressure | Design (-200, + 660)/ 200 mm water column | |
| 7 | Expansion | (i)Axial = ± 50 mm ;(ii)Lateral = ± 30 ; (iii)Angular = ± 2 deg | |
| 8 | Fabric | (a) PTFE coated glass fabric. (b) Minimum Tensile strength of fabric (in N/50mm) : 6000 (warp) & 6000 (weft). | |
| 9 | Backup – plate / Ring (GI) | a)On the back of Cloth- GI Backup Flat - Vendor scope. b)On the back of drain flange(cloth):- GI Back-up Flange - Vendor scope. c)On the Back of FRP Flange:- GI Split Flange – Vendor scope. | |
| 10 | Super seal (specification as per vendor's design) | a) In between cloth and duct flange. b) In between cloth and FRP pipe flange. | |
| 11 | FRP pipe (NB 80) details (Note: Applicable for Horz. Ducts only) | a) Length equal to width of duct (if supplied in two lengths/pieces- mounting flange, gasket and fasteners also to be provided for connection). One end with dummy flange other end with 90 deg elbow shall be provided. b) Stub length to be gradually increased to maintain 1:50 gradient for free flow of condensate. c) At the bottom of non-metallic expansion joints for every one meter drain hole shall be provided as per enclosed sketch. | |

| | | | | |
|-----|------------|---------------|---|--|
| 00 | 25-07-2021 | Fresh Release |  Arun Kumar |  V.Kesavan |
| REV | DATE | DESCRIPTION | Prepared by | Checked & Approved by |

Bidder's sign & seal

| | | | |
|----|--------------------------------------|---|--|
| 12 | Fasteners Bolts, nuts & Washers (GI) | a)M16x60 – (i) for mounting cloth with Duct frame - vendor scope. (ii)for mounting Drain flange(cloth) with FRP stub flange – vendor scope. b)M16x80 - For mounting two pieces of FRP pipe (if applicable), and at the end for mounting dummy and elbow – vendor scope. c)M12 U-clamps with nuts & washers – for fastening FRP pipe with support (minimum 2nos for each FRP drain pipe)- vendor scope. | |
| 13 | Galvanizing | All galvanized items should have minimum 40 micron coating thickness | |
| 14 | Guarantee | Vendor shall guarantee 20,000 hours of operation from the date of commissioning | |
| 15 | Documents to be submitted | <ul style="list-style-type: none"> a) Vendor to submit duly filled, sealed & signed all pages of the specification with confirmation to each point. b) Unpriced PO copies of previously supplied and installed similar Non-Metallic Expansion Joints shall be submitted by the vendor as proof of experience. c) Vendor to submit the dimensional drawings indicating materials of construction and weight along with the offer. d) Vendor to furnish cloth data sheet with physical and mechanical property along with the offer. e) Vendor to provided Quality plan with the offer. | |
| 16 | Drawing Approval | Drawing approval from BHEL Ranipet to be obtained for Non-Metallic Expansion Joints after award of contract before manufacturing. | |
| 17 | Inspection at vendor works | <ul style="list-style-type: none"> a) Inspection by BHEL or its authorized agency b) Material Test Certificates shall be submitted during inspection. | |
| 18 | Tools required at site | Vendor to arrange all required tools for mounting fabric into the duct and FRP connection (like punching tool and Hot sealing tool etc.) | |
| 19 | Installation | <ul style="list-style-type: none"> a) For installation of Non Metallic Expansion Joints & its accessories, vendor has to quote supervision charges on per set basis of Non-Metallic Expansion Joint. Cloth cutting, hot sealing, hole punching, and assembling FRP pipe (wherever applicable) with cloth are vendor scope. b) TA/DA, boarding and lodging shall be borne by the bidder and shall be inclusive in the offer. c) Payment of supervision charges shall be made on the basis of set of Non Metallic Expansion Joints installed at site based on site certification. d) After the erection of duct at the respective site. Vendor to punch holes in the cloth depending on the holes in the duct. e) Fixing of Expansion Joint into the duct shall be BHEL scope under the supervision of Vendor's expert. | |
| 20 | Packing | Items shall be wrapped in a polythene hessian and the package shall be kept in a cartoon box. FRP pipe shall be packed in rigid crates in such a way that during transportation / stacking at site, no external load should contact/damage the pipes. Drawing approval for packing shall be taken from BHEL before dispatch. | |
| 21 | Outside the box | PO number , vendor name, item, Site address, Quantity inside the box to be mentioned | |
| 22 | General | <ul style="list-style-type: none"> a)The Expansion Joints shall be as per EPRI guidelines. b)FRP drain pipe not applicable for Expansion Joints in Vertical Duct. c)FRP drain pipe along with elbow & dummy flange are applicable for joint in horizontal Duct only. d) Duct Flange details/drawings will be provided during detail engineering. | |
| 23 | Sketch | Sketch attached (refer next page) | |

Bidder's sign & seal



Bidder's seal & sign

Bharat Heavy Electricals Limited

Ranipet-632406, India.

Quality Assurance(Mech)

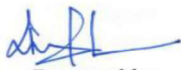
BONG: FGD: NMEJ: 219

Dt. 05-08-2021


| Project | Indent No | PGMA | Technical Specification |
|-----------------------|-----------|-------|---------------------------------|
| Bongaigoan (3X250 MW) | RFW11238 | FW252 | ABR:DUCT:NMEJ:R00,Dt:25.07.2021 |

Item Name: NON METALLIC EXPANSION JOINT

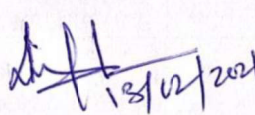

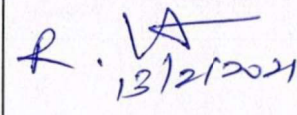
1. As per Customer approved categorization plan this item identified as vendor as well as inspection category I for Customer/ NTPC, therefore Customer approved source is acceptable.
2. Customer approved source available at Quality home page along with customer approved categorization plan. For 'DR' Category vendor purchase shall arrange vendor credentials along with filled sub vendor Questionnaire for taking up with NTPC for their review and approval.
3. All the items shall be inspected at Manufacturer works as per Customer/ NTPC approved QP/Approved Drawing/Approved datasheet and Technical Specification.
4. Physical Inspection shall be done by NTPC & BHEL/BHEL AIA.
5. Arrange Vendor acceptance on our MQP NMEJ: 739/01, DT: 13.02.2021. Since QP approval required by Customer (NTPC), quantum/inspection checks may vary based on Customer/Product requirement.
6. Packing of items shall be as per BHEL Engg Approved Packing Drawing/Packing Specifications.
7. BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO. Material Test Certificates shall be submitted to BHEL.
8. Annexure 'Q' shall be part of enquiry File and shall be filled by Supplier with their duly sign and seal.
9. **General Inspection Notes:**
 - a. Latest version of standards & Specification shall be applied.
 - b. Materials shall be procured in compliance to Functional Technical specification.
 - c. Gauges and measuring instruments with valid calibration only shall be used.
 - d. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
 - e. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. This QP shall be read along with relevant PO, BHEL Specification / Approved Drawing/ Datasheet.



Prepared by.
Rakesh Kr Madhu (Dy.Mgr/QA)


Reviewed & Approved by.
K Renjith(Mgr/QA)

|  MANUFACTURER'S NAME & ADDRESS Ranipet CUSTOMER BHEL/ BHEL APPROVED SOURCE (AS PER PROJECT REQUIREMENT) | | STANDARD QUALITY PLAN | | | | | | PROJECT: AS PER PO. | | | | | | |
|---|-----------------------|--|----------------|---------------|---|-----|---------------------|---------------------|------------------|---|--------|---|----|---------|
| | | ITEM: NON-METALLIC (Fabric) EXPANSION JOINT for FGD Applications. | | | QP. NO.: NMEJ:739 Rev No. :01 Date: 13.02.2021 Page 1 of 2 | | | | | | | | | |
| SL NO | COMPONENT & OPERATION | CHARACTERISTICS | CLASS OF CHECK | TYPE OF CHECK | QUANTUM OF CHECK | | REFERENCE DOCUMENTS | ACCEPTANCE NORMS | FORMAT OF RECORD | | Agency | | | REMARKS |
| | | | | | M | C/N | | | 9 | D | M | B | N | |
| 1 | 2 | 3 | 4 | 5 | M | C/N | 7 | 8 | 9 | D | 10 | | 11 | |

| | | | | | | | | | | | | | | |
|---------------------------------|---|---|-------|-----------------------------|---|---|------------------------------|--------------|---|---|---|---|---|---|
| 1.0 RAW MATERIAL | | | | | | | | | | | | | | |
| 1.1 | Clamping Bar | Chemical Composition & Mech. Properties, Galvanizing | Major | Review of MTC Visual | Each Heat | Each Heat | Approved Drawing / Datasheet | MTC/ Lab. TC | √ | V | V | V | V | All galvanized item shall be minimum 40 micron thickness. |
| 2.0 INPROCESS INSPECTION | | | | | | | | | | | | | | |
| 2.1 | Fabric Material: | Weight | Minor | Measure | One sample per Lot (Lot means item offered for inspection at a time) | Approved Drawing / Datasheet | Report | √ | P | V | V | V | Individual Layers | |
| 2.2 | | Thickness | Major | Measure | | Approved Drawing / Datasheet | Report | √ | P | V | V | V | | |
| 2.3 | Fabric(Glass) PTFE Foil | Tensile test (wrap & weft) | Major | Mechanical Test | | Approved Drawing / Datasheet | Report | √ | P | V | V | V | | |
| 2.4 | Silicon Coated glass Fabric | Pin Hole test | Major | Measure | | Approved Drawing / Datasheet | Report | √ | P | V | V | V | For PTFE Foil | |
| 2.5 | Texlam 1500 | Air Permeability | Major | Measure | | Approved Drawing / Datasheet | Report | √ | P | V | V | V | For coated & laminated fabrics | |
| 2.6 | | Joint efficiency test – Applicable in case of any joint | Major | Measure | | NTPC Approved Drawing / Datasheet/Manufacturer Standard | Report | √ | P | W | V | V | | |
| 3.0 FINAL INSPECTION | | | | | | | | | | | | | | |
| 3.1 | Temp withstandability test for composite fabric for surge temp. | Test | Major | Measure | One sample per Lot | NTPC Approved Drawing / Datasheet/Manufacturer Standard | Report | √ | P | W | W | W | (Lot means item offered for inspection at a time) | |
| 3.2 | Flexibility test | Test | Major | Measure | One sample per Lot | NTPC Approved Drawing / Datasheet/Manufacturer Standard | Report | √ | P | W | W | W | | |

| | | | | |
|--------------------------|--|---|---|--|
| Manufacturer Sign & Seal | Legends: M – Manufacturer / Subcontractor, C – Main Contractor / BHEL /BHEL Authorized Inspection Agency, N – Customer / NTPC, P - perform, TC – Test Certificate V - Verification of reports, COC – Certificate of conformance - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation. NMEJ- Non-Metallic Expansion Joint. | Prepared by  13/02/2021 | Reviewed by  13/02/2021 | Approved by  13/2/2021 |
| | | Rakesh Kr Madhu (Dy.Mgr/QA) | K Renjith (Manager/QA) | R Arunachalam (DGM/QA) |

| 2021/BAP/MA/10001  Ranipet | | MANUFACTURER'S NAME & ADDRESS CUSTOMER BHEL/ BHEL APPROVED SOURCE (AS PER PROJECT REQUIREMENT) | | STANDARD QUALITY PLAN ITEM: NON-METALLIC (Fabric) EXPANSION JOINT for FGD Applications. | | | | QP. NO.: NMEJ:739 Rev No. :01 Date: 13.02.2021 Page 2 of 2 | | PROJECT: AS PER PO. | | | | |
|---|-----------------------|---|----------------|--|------------------|-----|---------------------|---|------------------|---------------------|--------|---|---|---------|
| SL NO | COMPONENT & OPERATION | CHARACTERISTICS | CLASS OF CHECK | TYPE OF CHECK | QUANTUM OF CHECK | | REFERENCE DOCUMENTS | ACCEPTANCE NORMS | FORMAT OF RECORD | | Agency | | | REMARKS |
| | | | | | M | C/N | | | 9 | D | M | B | N | |
| 1 | 2 | 3 | 4 | 5 | M | C/N | 7 | 8 | 9 | D | 10 | | | 11 |

| | | | | | | | | | | | | | |
|-----|-------------------|--------------------|-------|----------------------|------|------|---|--------|---|---|---|---|--|
| 3.3 | Expansion Joints. | Dimension & Finish | Major | Visual & Dimensional | 100% | 100% | As per Approved Drawing / Specification/Datasheet | Report | √ | P | W | W | |
| 3.4 | Packing, | Visual | Minor | Verification | 100% | 100% | As per P.O Drawing/Specification | COC | √ | P | V | - | |

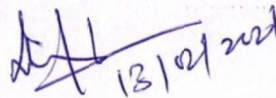
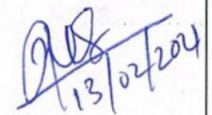
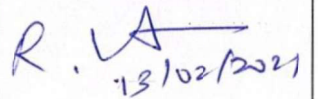
@@ In case of Project / Customer specific requirements, inspection stage / type of check / Quantum of check may change.

Notes:

1. Latest version of standards & Specification shall be applied.
2. All the critical Dimensions shall be checked for dimensional conformity.
3. Materials shall be procured in compliance to Functional Technical Specification.
4. Gauges and measuring instruments with valid calibration only shall be used.
5. Inspection / Inspection waiver / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
6. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
7. This QP is applicable for Mandatory spare also as applicable.
8. This QP shall be read along with relevant PO, Approved drawing/Specification/Approved datasheet as applicable.
9. Loose Items/Items minor in nature, which are not covered under this QP.Manufacture COC/TC Shall, be reviewed by Inspection agency.

Record of revision

| Rev no | Date | Description |
|--------|------------|-------------------------------------|
| 00 | 07.03.2020 | Original Issue (First Submission) |
| 01 | 13.02.2021 | Based on Customer requirement |

| | | | |
|--|--|---|---|
| Legends: M – Manufacturer / Subcontractor, C – Main Contractor / BHEL /BHEL Authorized Inspection Agency, N – Customer / NTPC, P - perform, TC – Test Certificate V - Verification of reports, COC – Certificate of conformance - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation. NMEJ- Non-Metallic Expansion Joint. | Prepared by | Reviewed by | Approved by |
| |  13/02/2021 Rakesh Kr Madhu (Dy.Mgr/QA) |  13/02/2021 K Renjith (Manager/QA) |  13/02/2021 R Arunachalam (DGM/QA) |
| Manufacturer Sign & Seal | | | |

Annexure Q

| Indent No: | | Enquiry no: | |
|------------|---|--|--|
| Sl.No | BHEL / Customer Requirements | ##Specific confirmations by the manufacture(Acceptable/Not acceptable) | |
| 1 | Quality Plan Requirement: (If SQP is not given & Vendor QP applicable) | | |
| | (i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Our SQP/Typical MQP/ MQP Format is attached for guidance & use. | | |
| | (ii) MQP shall invariably cover w.r.t Inward inspection including on Raw material Procurement, In process and Final inspection in elaborated way/details. | | |
| | (iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL/customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order. | | |
| | (iv) No deviation on BHEL/Customer approved MQP/ SQP (In case BHEL SQP is provided) is acceptable. | | |
| | (v) Bidder shall agree to submit all cross referred documents other than codes/standards to BHEL/Customer/Consultant. | | |
| | Important Notes shall be included in MQP : (a) Latest revision of Standards & Specification shall apply. Only International Standards are applicable. (b) Materials shall be procured in compliance to Functional Technical Specification. (c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product. (d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V. (e) Gauges and measuring Instruments, with valid calibration only shall be used. (f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule. (g) Finished Products shall be packed to comply with Approved Packing Schedule. (h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V. | | |
| 2 | Domestic / Inland Inspection will be carried out by BHEL/BHEL appointed Third Party Inspection Agency (TPIA) / Customer/Customer Apointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc (As applicable). | | |
| 3 | Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Foreign Sources: (1) Any one of the following Third Party Inspection Agency (TPIA) shall be appointed by the bidder and same shall be furnished by the bidder in techno commercial bid itself. (2) The details of TPIA with contact details like Name of the official, Phone no, Email id shall also to be submitted during pre/post award. However cost for such inspection agency shall be borne by the bidder only. Inspection charges for such inspection agency shall be indicated separately so that if BHEL/Customer is undertaking the inspection by on their own, then these charges non claimable by the bidder. List of TPIA 1.M/s Bureau Veritas 2.M/s TUV-Nord 3.M/s TUV-SUD 4.M/s TUV Rheinland 5.M/s Lloyds Register 6.M/s SGS 7.M/s Germanischer Lloyds 8.M/s QUEST 9.M/s Certification Engineers International 10.M/s Intertek 11.M/s IR Class Systems and Solutions 12.M/s DNV 13. M/s Fichtner 14. M/s ABS Inspection Services | | |

| Sl.No | BHEL / Customer Requirements | ##Specific confirmations by the manufacture(Acceptable/Not acceptable) |
|------------------------|---|--|
| 4 | Stage Inspection during manufacturing Process : Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review,verification and clearance for further processing. This inspection call shall be given well in advance (atleast 2 weeks before for Indeginious and 45 days forforeign) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes. | |
| 5 | Inspection before despatch for domestic supplier : Inspection before despatch at supplier's works shall be carried out by Bidder appointed Inspection agency(As in Sl no.3.) Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet . | |
| 6 | Inspection at Forign Source/Supplier: (a) As in sl no: 3. shall be ensured without fail (b) No materail / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by Bidder apointed Third Party Inspection Agency (As per Sl no.3) / Customer/Customer Apointed Inspection Agency/Consulatnat. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentaion Diagram / Process Flow Diagram / Single Line Diagram) etc (As applicable). Inspection before despatch for Foreign supplier : Inspection before despatch at supplier's works shall be carried out by bidder appointed inspection agencies having international presence at vendors and or vendor's sub vendor works. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet by TPIA mentioned in Sl no: 03 at supplier's cost. | |
| 7 | Painting shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc shall be brought to the notice to BHEL well in advance before proceding including the BOI being pro cured for assy / skid like motors etc | |
| 8 | Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechnical + HT + NDT etc (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings. | |
| 9 | Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care tarnsit / handling / transhipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions. | |
| 10 | Outsourcing of test facilities: Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accreadted third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing. | |
| 11 | Important Note: No deviation on the above requirement 01 to 10 is acceptable w.r.t Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidances in the offer itself. | |
| 12 | ## Necessorily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement. | |
| 13 | If the OEM/Principal engaging the services of an agent to participate on their behalf, Then mention OEM /vendor Name & address as well as agent details with their sign and seal. | |
| VENDOR SIGN AND STAMP: | | Vendor Name & Address: |

*(To be submitted In the company letter head by supplier)

Form - 1

Subject: Public Procurement (Preference to Make In india)

References:

- 1.P-45021/2/2017-B.E-II dated. 15th June-2017,
- 2.P-45021/2/2017-PP(BE-II) dated. 28th May-2018 ,
- 3.P-45021/2/2017-PP(BE-II) dated. 29th May-2019.
- 4.P-45021/2/2017-PP(BE-II) dated. 4th June-2020

We hereby declare with reference to above subject and references that M/s --
------(Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50%(fifty percent) or more defined in the above government notification for the goods and services (or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50%(fifty percent) defined in the above government notification for the goods and services

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

Details of location at which local value addition will be made is as follows:

We also understand that the 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.

Authorized Signature M/s _____

(Signature and seal)

Place:.....

Date:.....

From.

M/s _____

Address: _____

***(To be submitted In the company letter head by supplier)**

Form – 2

I/we are bidder from _____ (Address with country). We do not belong to any of the below category mentioned.

1. Any of entity/office/workshop of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
2. Any of subsidiary of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
3. Any of entity/office/workshop of your organisation/incorporation, controlled in a country sharing land border with India, If yes, provide the full address of all such locations.
4. Any of entity whose beneficial owner is situated in a country sharing land border with India, If yes, provide the full name, address of all such locations.
5. Any Indian Agent available, If so, Provide details of address and contacts.
6. Any employee/directors who is/are citizen of country sharing land border with India, If yes, provide the full name, employee code and address of all such locations.
7. Any of consortium/joint venture of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.

Meaning of beneficial owner

- 1) In case of a company or limited liability partnership, beneficial owner is the natural person, who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a) Controlling ownership interest means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b) “control” shall include the right to appoint majority of the directors or to control the management rights or shareholder’s agreement or voting agreement.
- 2) In case or a partnership firm the beneficial owner is the natural person (s) who whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of capital or profits of the partnership.
- 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of the property or capital or [profits of such association or body of individual.
- 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
- 5) In case of a trust, the identification of beneficial owner (s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust and any other

***(To be submitted In the company letter head by supplier)**

natural person exercising the ultimate effective control over the trust through a chain of control of ownership.

- 6) An agent is a person employed to do any act for another, or to represent another in dealing with third person.

We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India, we hereby declare that we do not belongs to any such country and are eligible to be considered.

In case, any of information is found to be false, even after bid acceptance, immediate termination may happen and action will be taken as per law.

Format is being filled without altering any of the clause mentioned in the given format**

Dated: _____

Authorised Sign and stamp_____