

OPEN TENDER CHECKLIST

SWRO & BWRO PRESSURE VESSELS

FOR TANGEDCO UDANGUDI STPP PROJECT

Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT 48400)

Sl. No.	Document Name	Vendor Confirmation (Filled and Signed copy to be submitted along with Techno Commercial Offer)
01	Annexure A COVERING LETTER	Submitted ☐ Not Submitted ☐
02	Annexure B GENERAL TERMS & CONDITIONS (FOR GUIDANCE TO THE SUPPLIERS)	Submitted ☐ Not Submitted ☐
03	Annexure C COMMERCIAL TERMS AND CONDITIONS - INDIGENOUS	Submitted ☐ Not Submitted ☐
04	Annexure D UN PRICED /PRICE OFFER FORMAT - INDIGENOUS	Submitted ☐ Not Submitted ☐
05	Annexure E SPECIFICATION DEVIATION DISPOSITION REPORT	Submitted ☐ Not Submitted ☐
06	Annexure F CEBG	Submitted ☐ Not Submitted ☐
07	Annexure G Online SRF	Submitted ☐ Not Submitted ☐
08	Annexure H TERMS AND CONDITIONS FOR OFFER	Submitted ☐ Not Submitted ☐
09	Annexure I PAYMENT MECHANISM	Submitted ☐ Not Submitted ☐
10	TECHNICAL SPECIFICATION FOR SWRO & BWRO PRESSURE VESSELS - ROS:6252, REV:00 DATED 22.06.2019,	Submitted ☐ Not Submitted ☐
11	SWRO PR VESSEL VARIANT - ANNEXURE A	Submitted ☐ Not Submitted ☐
12	BWRO PR VESSEL VARIANT - ANNEXURE B,	Submitted ☐ Not Submitted ☐
13	PRE-QUALIFICATION REQUIREMENT - FIRST PASS RO (SWRO) MEMBRANE PRESSURE VESSELS - RWT90775:SWROPV REV 00 DATED 08.07.2019	Submitted ☐ Not Submitted ☐
14	QAP / QP / MQP Customer Sample Format	Submitted ☐ Not Submitted ☐



Bharat Heavy Electricals Limited

Boiler Auxiliaries Plant

RANIPET – 632 406, Tamil Nadu, India

PURCHASE – WATER SYSTEM

ANNEXURE - A
SWRO & BWRO PRESSURE VESSELS
FOR TANGEDCO UDANGUDI STPP PROJECT

Enquiry No.: 7790673E Dated 24-AUG-2019 (NIT_ 48400)

Due on: 17-SEP-2019

To All Manufacturers & Suppliers only.

Dear Sir,

Please submit your lowest quotation on FIRM PRICE, in duplicate subject to our terms & conditions in the various annexures attached and herein for the below listed materials so as to reach us on or before the due date by 2.00 p.m.

Requirement with Delivery date-FOR SUPPLY: DESTINATION - FOR RANIPET STORES

Enquiry Sl. No.	Description & material Code	Unit	Qty.	Delivery Date
001	RWT907750001 SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES: ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT - I)	ST	88.00	Supply completion with in 31.01.2020 or 4 MONTHS from the date of CAT-I Approval / Manufacturing clearance, whichever is Later.
002	RWT907750002 SPECIAL TOOLS FOR SWRO MEMBRANE ASSEMBLY / DISASSEMBLY, REMOVAL OF END CAP ASSEMBLY, MEMBRANE PERMEATE PROBING ETC AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.	ST	1.00	
003	RWT907750003 SWRO COMMISSIONING SPARES - ADAPTER SEAL 'O RINGS' AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.	ST	50.00	
004	RWT907750004 SWRO COMMISSIONING SPARES- END CAP ASSEMBLY AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.201.	ST	5.00	



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Enquiry Sl. No.	Description & material Code	Unit	Qty.	Delivery Date
005	RWT907750005 SWRO COMMISSIONING SPARE - THRUST CONE AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	5.00	Supply completion with in 31.01.2020 or 4 MONTHS from the date of CAT-I Approval / Manufacturing clearance, whichever is Later.
006	RWT907750006 SWRO COMMISSIONING SPARE- MEMBRANE SEAL FOR ADAPTOR ('O') RING AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	50.00	
007	RWT907750007 SWRO COMMISSIONING SPARES - HEAD SEAL AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	20.00	
008	RWT907750008 SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES ADAPTERS, FEED/ PERMEATE / CONCERNTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE & HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT II)	ST	96.00	
009	RWT907750009 BWRO PRESSURE VESSELS WITHCOMPLETE ACCESSORIES VIZ ; ADAPTERS, FEED / PERMEETE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.	ST	16.00	
010	RWT907750010 SPECIAL TOOLS FOR LOADING/REMOVAL OF BWRO MEMBRNAE AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	1.00	
011	RWT907750011 BWRO COMMISSIOING SPARES : ADAPTOR SEAL 'O' RING AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	20.00	



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Enquiry Sl. No.	Description & material Code	Unit	Qty.	Delivery Date
012	RWT907750012 BWRO COMMISSIONING SPARES: END CAP ASSEMBLY AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	2.00	Supply completion with in 31.01.2020 or 4 MONTHS from the date of CAT-I Approval / Manufacturing clearance, whichever is Later.
013	RWT907750013 BWRO COMMISSIONING SPARE: THRUST CONE AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	2.00	
014	RWT907750014 BWRO COMMISSIONING SPARE: MEMBRANE SEAL FOR ADAPTOR (O-RING) AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	20.00	
015	RWT907750015 BWRO COMMISSIONING SPARE: HEAD SEAL AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	5.00	
016	RWT907750016 MANDATORY SPARES FOR SWRO PRESSURE VESSEL: 'O' RINGS & GASKET OF EACH SIZE & TYPE REQUIRED FOR PRESSURE VESSEL AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.	ST	1.00	
017	RWT907750017 MANDATORY SPARES FOR BWRO: 'O' RINGS & GASKETS OF EACH SIZE & TYPE REQUIRED FOR RO VESSEL AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019	ST	1.00	



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BIDDERS SHALL CAREFULLY READ THE FOLLOWING ANNEXURES / NOTES AND SHALL QUOTE THEIR BEST COMPETITIVE PRICE.

PLEASE REFER TO - COMMERCIAL DOCUMENTS

- 1. ANNEXURE-B FOR GENERAL TERMS & CONDITIONS (FOR GUIDANCE TO THE SUPPLIERS)**
- 2. ANNEXURE-C FOR COMMERCIAL TERMS AND CONDITIONS**
- 3. ANNEXURE-D UN PRICED /PRICE OFFER FORMAT**
- 4. ANNEXURE-E SDDR FORMAT**
- 5. ANNEXURE-F CEBG FORMAT**
- 6. ANNEXURE-G ONLINE SUPPLIER REGISTRATION FORM**
- 7. ANNEXURE-H TERMS AND CONDITIONS FOR OFFER**
- 8. ANNEXURE-I PAYMENT MECHANISM**

TECHNICAL ENCLOSURES AS PER FOLLOWINGS:

- 1. TECHNICAL SPECIFICATION FOR SWRO & BWRO PRESSURE VESSELS - ROS:6252, REV:00 DATED 22.06.2019,**
- 2. SWRO PR VESSEL VARIANT - ANNEXURE A,**
- 3. BWRO PR VESSEL VARIANT - ANNEXURE B,**
- 4. PRE-QUALIFICATION REQUIREMENT - FIRST PASS RO (SWRO) MEMBRANE PRESSURE VESSELS - RWT90775:SWROPV REV 00 DATED 08.07.2019**
- 5. QAP / QP / MQP Customer Sample Format**

Important Instruction to Bidders:

- 1. All the items will be procured from a single vendor only & all the Items will be compared on SET Basis & Order will be placed on a Single vendor who is the lowest (L1) on set basis. Hence please quote for all the complete items including services. Incomplete offers will be rejected.**
- 2. Vendors shall go through the “Qualification Requirement” & furnish Qualification Data sheet duly filled in along with Techno-Commercial offer. Offers received without this requirement will be summarily rejected & such offers will not be processed further.**
- 3. Price bid opening will be considered subject to techno commercial confirmation and acceptance by BHEL, Ranipet & also approval from our customer: M/s. TANGEDCO UDANGUDI STPP PROJECT.**
- 4. Price Bid opening will be done through e-mode / Reverse Auction method (English method) which will be decided after techno-commercial bid evaluation is completed**

➤ TENDER SHALL BE SUBMITTED IN TWO PARTS AS REFERRED IN ANNEXURE-B.

➤ ANY REVISED OFFER(S) SENT BY VENDORS ON THEIR OWN, AFTER THE TENDER OPENING, WILL BE TREATED AS "UNSOLICITED OFFER". SUCH OFFERS WILL NOT BE CONSIDERED AND NECESSARY ACTION AS DEEMED FIT WILL BE TAKEN BY BHEL ON THOSE VENDORS. HENCE COMPETITIVE OFFER TO BE GIVEN IN THE ORIGINAL QUOTE ITSELF.

IMPORTANT NOTE:

TENDERS ARE INVITED THROUGH ELECTRONIC MODE FROM ELIGIBLE SUPPLIERS IN CASE OF OPEN TENDERS AND FROM SUPPLIERS TO WHOM THE ENQUIRY IS ADDRESSED IN CASE OF LIMITED / SINGLE TENDER.

THE OFFERS SHALL BE POSTED INTO THE SYSTEM BEFORE THE DATE AND TIME SPECIFIED IN THE TENDER.



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PURCHASE – WATER SYSTEM

THE OFFER SHALL BE SENT ON ~~SINGLE PART~~ / TWO PART / ~~THREE PART~~ BASIS AS SPECIFIED IN THE MAIN TENDER DOCUMENT.

BIDS SHALL BE SUBMITTED THROUGH E-PROCUREMENT PORTAL, <http://bhel.abcprocure.com> OF M/S E-PROCUREMENT TECHNOLOGIES LTD - www.abcprocure.com WHO ARE OUR SOLUTION PROVIDER..

01) OFFERERS ARE REQUESTED TO CAREFULLY READ THE FOLLOWING CONDITIONS AND GIVE THEIR SPECIFIC CONFIRMATION OF ACCEPTANCE IN TOTO.

2A) TIME IS THE ESSENCE OF CONTRACT.

2B) IN THE EVENT OF DELAY ON THE CONTRACT DELIVERY, LIQUIDATED DAMAGES (LD) WILL BE LEVIED.

2C) LD WILL BE LEVIED AT THE RATE OF 0.5 % PER WEEK OR PART THEREOF ON THE CONTRACT VALUE.

2D) THE LD CEILING WILL BE 10 %.

2E) LD WILL BE A MANDATORY CONDITION IN THE PURCHASE ORDER.

3) IF NO CONFIRMATION OR COMMENTS ARE INCLUDED IN THE INITIAL OFFER BY THE TENDERER, IN THE EVENT OF PLACEMENT OF ORDER, THE ORDER WILL BE RELEASED WITH THE STANDARD LD CONDITION GIVEN ABOVE.

4) THE CONDITION WILL BE INCLUDED IN THE ORDER WITHOUT ANY FURTHER REFERENCE TO THE OFFERER AND NO CHANGES WILL BE PERMISSIBLE, POST ORDER RELEASE.

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**ANNEXURE –B**  
**GENERAL TERMS & CONDITIONS**  
**(FOR GUIDANCE TO THE SUPPLIERS)**

**A] Submission of Offer**

**a) Invitation for bid**

Tenders are invited through electronic mode from eligible suppliers in case of open tenders and from suppliers to whom the enquiry is addressed in case of Limited / Single Tender.

The offers shall be posted into the system before the date and time specified in the tender.

The offer shall be sent on single part / two part / three part basis as specified in the main tender document.

Bids shall be submitted through e-Procurement portal, <https://bhel.abcprocure.com> of M/s e-Procurement Technologies, Ahmedabad who is our solution provider.

**b) Hardware and Software requirements for participating in e-tender**

Requirement for participating in e-Procurement is as under:

- i) A Computer with internet connectivity (Internet Explorer 9.0 (32-bit Browser only) & above)
- ii) Digital Signature Certificate (Class 3- SHA2-2048 BIT- with both Signing and Encryption component separately).
- iii) JAVA (Version 1.8 Update 45).
- iv) Steps for Hardware and software configuration is detailed at <https://bhel.abcprocure.com/EPROC/> under title “Minimum system requirements and Settings Document for BHEL User and Bidders”.

**c) Instructions for Registered Suppliers**

For all types of tenders (Single / Limited / Open) an automated email alert regarding issue of the Tender will be sent by the e-procurement portal to all Suppliers registered with BHEL, Ranipet for the item/s for which the tender is issued.

In case of open tenders, Registered suppliers with registered DSC will have to login with their user id/password & DSC and search for the Open Tender. To participate in event and to submit bid, a bidder needs to agree the terms and conditions.

Registered suppliers without DSC will have get their profiles approved by mapping DSC after login.

To know the procedure for obtaining Digital Signature Certificate (DSC), suppliers who are not having the DSC are advised to visit our website [www.bhel.com](http://www.bhel.com) → Tender Notifications → Sample Checklist.

**d) Instructions for new suppliers wishing to bid against open tenders**

New, unregistered suppliers wanting to bid against open tender/s will have to first register themselves in <https://bhel.abcprocure.com> as new supplier by clicking the “Register” button.

After entering the Income Tax Permanent Account Number (PAN) details and pressing “Enter”, they have to select the respective BHEL Unit for which they want to participate in the Open Tender and also fill up other relevant Company information as a one-time activity. On successful registration, your profile will be approved by the authorized officer and you can login to portal and can participate in the procurement event.

To participate in a tender, you need to login to the portal. You must be an approved registered user. If you are not a registered user, you can register yourself by clicking upon the “Register” link. You need to have a valid vendor code and password to login to the portal. Enter your Vendor code, password and click on Login button after Login, you need to select your digital signing and encryption certificates certificate. The DSC will be approved by M/s e-Procurement Technologies/ Authorised officer of BHEL.

As required by the tender, the necessary documents have to be filled-in online, in the provided template. Additional documents required are to be scanned and uploaded as .pdf file. Suppliers are advised to take note that the maximum space that is provided for uploading the documents that are to be attached is 300 MB. However the size of an individual document cannot exceed 10 MB. For any clarification on submission of offer on line, attention of the Supplier/s is invited to our document “Bidder Manual for BHEL Bidders” hosted in the home-page of the e-procurement portal. During normal business hours, helpline maintained by the service provider M/s e-Procurement Technologies is available for clarifying any doubts of supplier/s. The helpline numbers are +91-79-40270599/508/560/590/513 and email id is: [Bhel.Support@abcProcure.com](mailto:Bhel.Support@abcProcure.com) . Bidder can also refer to “Bidder Manual for BHEL Bidders” hosted in the home-page of the e-procurement portal <https://bhel.abcprocure.com>.

**Typical documents that would be required as part of tender submission would be**

- a) **Complete technical Offer** with details, catalogues, as applicable.
- b) **Un-priced bid** (i.e. Bid without the Price) as per given format, if any.
- c) **Filled-in BHEL’s Standard Terms & Conditions** as per Annexure enclosed with the Tender Document,
- d) **Deviation summary** submitted in two parts – giving the summary of technical deviations separately and the commercial deviations separately, if any and
- e) **Supporting documents** to substantiate equivalent material specifications / sections, where quoted for.
- f) Where asked for, **Client list** with their full address including detail of contact person with phone no., fax no. & e-mail ID (if any) to whom the same / similar items are supplied in the past two years. The date of supply may also be indicated, against each client.
- g) Suppliers can also upload their credentials by way of submission of Performance certificate/s issued by their customer/s detailing the quantity supplied and specification along with the un-priced PO copies and proof of supply along with the offer.

**Technical acceptance of offer by BHEL shall be based on the evaluation of offer and the submitted documents.**

- h) **Bidders who are not already registered with BHEL Ranipet** are requested to submit the Supplier Registration Form (SRF) online (<http://supplier.bhel.in/>) for evaluating and registering as an approved vendor. The Supplier Development Cell (SDC) of BHEL, Ranipet would process the SRF for evaluation / registering the Supplier. Don’t send hardcopies of SRF to BHEL-Ranipet, **only** online submission is accepted. This registration process is a separate / parallel activity and do not mix-up with submission offers.

#### **Note**

- (i) The materials offered, shall conform to the specification and scope attached in the tender.
- (ii) In case the offered materials are not conforming to the Enquiry material Specification, such offers would not be considered for evaluation and would be rejected.

Where equivalent specifications are offered, considering such offers will be at the sole discretion of BHEL. Wherever alternative standards / specifications are offered by Bidder, the Bidder shall provide sufficient documentary evidence to ensure equivalence to the designated standards / specifications, failing which the offer would be considered as not technically acceptable and hence shall stand rejected.

(iii) All taxes and duties payable as extra to the quoted price should be specifically stated in offers (as appearing in the online template).

Offer/s from within India shall be submitted along with the applicable HS Number and the applicable Goods & services Tax (GST) for each quoted item, failing which the purchaser will not be liable for payment of such taxes and duties. Our GST No: **33AAACB4146P2ZL**.

(iv) The un-priced bid shall be used to indicate relevant commercial terms such as scope of freight and insurance, applicability of duties and taxes etc. All Commercial terms are to be indicated clearly in the offer.

(vi) No changes shall be entertained once the bid is opened unless otherwise specifically agreed to in writing by BHEL.

(vii) Money values other than for those items appearing in the un-priced bid template shall not be indicated anywhere in the un-priced bid.

(viii) Time required for inspection (at Supplier's works), should be clearly given in terms of numbers of working days.

(x) **Offers sent by FAX / E-mail:** would not be entertained.

(xi) Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.

(xii) Registration process for items required by BHEL is always open at <https://supplier.bhel.in>. Prospective suppliers (including MSEs & owned by SCs/STs) may visit this site and apply for registration in the respective Unit.

**Price Bid** in conformance with the specification and terms as given in the Un-Priced bid document.

**Caution on submission of price bids thru EPS:**

*The suppliers are severely cautioned to note that the price bid document accepts the price in figures only. It does not allow the supplier to write the value by words. Therefore all care shall be exercised by the supplier while filling in the figures. Once the price bid is opened no option is available for the supplier to retract the offer under any grounds. If a supplier, for any reason whatsoever approaches BHEL with a request for change in the price, it would be treated as going back on the offer submitted. In such cases, action would be initiated by BHEL for suspending further business dealings with such suppliers as per policy of BHEL which prevails at that point of time.*

**Foreign / Overseas suppliers are hereby informed that offers with differential currencies are not permitted for a given tender document.**

**Note**

(i) The price break-up should be in line with technical specification / scope of the tender. (Cost of material, packing charges, forwarding charges, freight and insurance charges shall be shown appropriately, as applicable).

- (ii) Unless otherwise specified as a part of the tender condition, No Price Variation Clause will be entertained and No advance payment will be made by BHEL.
- (iii) In case, there is a discrepancy in the term quoted in techno-commercial bid and price bid, the term as per the techno-commercial bid (Part I) shall hold good and the commercial term quoted in the Price Bid (Part II) shall not be considered.
- (iv) In their own interest, all Tenderers are advised to double check their prices, applicable duties and taxes.
- (v) The quotation should be valid at least for a period of 90 days from the tender opening date.
- (vi) Indian bidders should submit the prices in Indian Rupees only.
- (vii) Foreign bidders may submit their bid in foreign currency. The currency for quoting shall be selected from the drop-down menu provided.
- (x) Indian Suppliers shall quote on FOR Destination basis only. Destination is BHEL, Ranipet Stores or BHEL Project Site as specified in the tender requirement. Foreign Suppliers shall quote on CFR Chennai Seaport Delivery and Insurance will be in BHEL's scope. No other delivery terms shall be acceptable. Shipment shall be arranged by the Seller on *Liner in / Liner out basis*. As per Government of India guidelines, BHEL Ranipet being a Government of India Undertaking the Bill of Lading shall be made with the Shipper as "Government of India". This shall be specifically confirmed by the Bidder.
- (xi) Where the cargo is containerized, Container washing charges, stuffing charges and / or any other such charges would be to the account of the supplier, where the containers are to be stuffed at the works of the supplier.

## **B] Opening of Offers**

a) **Tenders can be submitted up to 1400 Hours on tender opening due date. Part I will be opened on the same day at 1430 Hours. Results of the tender opening will be available for viewing for upto 7 days from the date of opening.**

**b) Requests by Bidders for extension of due date will not be entertained by BHEL.**

c) Price Bid opening will be done through e-mode / Reverse Auction method ( English method) which will be decided after techno-commercial bid evaluation is completed. All tenderers would have to specifically give their acceptance for this in their bid/s.

### **Note**

- (i) Bids including all enclosures and supporting documents like catalogues, pamphlets, etc., shall be provided in ENGLISH language only.
- (ii) In exceptional circumstances, at its option, BHEL may consider extending the due date/s for the tender openings for reasons such as (but not limited to) paucity of offers etc. However, sufficient notice would be given by BHEL for such extension.
- (iii) Deviations shall be summarized and provided in a "Deviation Statement", listing the points and the deviation against each point.
- (iv) BHEL reserves the right to increase or decrease the tendered quantity and to order on more than one vendor at the lowest acceptable price to BHEL. In ordering on more than one source, the ratio of quantity split will be as specified in the tender terms.

If not explicitly specified, BHEL reserves the right to split the quantity of the enquiry as follows: 70% quantity being ordered on the original lowest bidder (L1) and balance 30% on the next higher bidder/s excluding H1, who accepts the L1 price. However, the final decision to split the order rests with BHEL only.

In the event that the other than L1 suppliers do not accept the L1 price, then the balance will be reverted to the original L1 and the original L1 shall be bound to accept the balance of the enquiry quantity kept reserved for order splitting. This decision would be given by BHEL within 60 days of the price bid opening.

Notwithstanding the quantum of split that may be indicated in the main body of the enquiry, bidders are advised to note that the splitting of the orders will be decided by BHEL after the evaluation of the techno-commercial and price bids.

(v) Offers for part quantities on item level basis are not acceptable to BHEL. While tenderers can quote for some or all the tendered items, no supplier shall quote for partial quantity of any given enquiry item. Such partial offer would not be considered in the enquiry for that item. Suppliers are to note that the evaluation unless otherwise specified will be on item level and not for the tendered items as a whole.

### **C] Evaluation of Offers**

a) The price bids including the impact price (if any) of the technically acceptable offers alone shall be opened.

b) Offers with pre-conditions (like conditional discounts) for price are liable to be not considered / rejected. For evaluation such conditions would be removed and only the base offer would be considered for evaluation and comparison.

d) In the event of any change in scope / quantity arising out of the discussions, offerers would be given a chance to submit their revised offer / Impact bids. The option for the revised offer / impact offer will be triggered by BHEL. The Supplier then will have the facility to feed-in the revised price / impact price as per the provision given by BHEL. The impact price can be positive or negative (or nil). The impact price option shall contain only the price addition / deletion for such change in the scope / quantities, over and above the original scope and price quoted. The original price quoted would remain unchanged. The total price would then be computed by the arithmetic addition of the original price and the impact price. Where BHEL gives the option of submitting the revised offer, the impact would be computed as the arithmetic difference of the revised price and the original price.

e) For evaluating the overseas offers, CFR Chennai Sea Port price quoted will be taken into account. The cost to BHEL will be arrived at by loading the applicable customs duty project wise, insurance charges, inland transportation charges to BHEL stores and LC charges etc.,

f) Deleted.

g) BHEL reserves the right to reject without assigning any reasons / load any offer with factors other than already specified for such offers having deviations to BHEL Specifications, Standard Terms & Conditions at its discretion. The decision of BHEL in this regard shall be final.

h) BHEL reserves the right to reject an offer due to unsatisfactory performance during tender finalisation / execution of a contract at any of BHEL projects / units in the past or if unsatisfactory performance report is received from the party/s referenced by the supplier at any time during tender finalisation.

i) BHEL reserves the right to operate Purchase / Price preference to Government of India Undertakings, which shall be given as per the guidelines of Government of India given from time to time and / or relax the Terms and Conditions of the tender.

j) For the purpose of comparing prices, tender prices shall be converted to Indian rupees and the conversion shall be made by using the TT Selling rate of State Bank of India (SBI) prevailing on the date of opening of Techno-Commercial / Unpriced bids. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken. This exchange rate will be followed till placement of order. Tenderers may please note that even if an impact price is taken as in (d) for purpose of price evaluation and arriving at the rank; the exchange rate will be taken as explained above.

k) Unless otherwise specified, evaluation will be on individual line item basis only and ordering will be on respective L1 vendors.

l) BHEL reserves the right to conduct negotiations on the “Price” and “Other Commercial Terms and Conditions” with the lowest ranked offerer at any time after the bid opening but before the release of the Purchase Order and If so required by BHEL, Supplier may have to share their costing sheet with BHEL.

m) Bidders are required to confirm in writing in their techno-commercial document that other than themselves (the bidder) none of its group companies, concerns or affiliates etc., are participating in the tender either directly or indirectly or through any other agency under the same proprietor / common partner(s)/ common Directors. If during the evaluation of the bids it is found that the bidder has submitted the offer in violation of this condition then all the offers received from the group companies would stand rejected. If such relationship is found at a later date where the Purchase Order has been issued, then BHEL would cancel the Purchase Order and initiate suitable action/s under the contract/s including but not limited to invoking the Risk Purchase clause of the order and other applicable legal provisions / guidelines of BHEL including guidelines on suspension of business dealings. (Please see clause L sub-clause c).

n) For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.

**Preference to Make in India** including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following link

[http://dipp.nic.in/sites/default/files/publicProcurement\\_MakeinIndia\\_15June2017.pdf](http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf)

[http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017\\_28052018.pdf](http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf)

#### **D] Execution of the Order**

a) BHEL will have the option to pre-inspect the materials at Supplier's works by BHEL's own inspector or by third party agency appointed by BHEL or BHEL's end customer/s. The mere act of the pre-dispatch inspection (PDI) does not absolve the Supplier from giving the specifications as agreed upon in the Purchase Order. In the case of inspection being carried out by a third party inspector (TPI) as per the extant practice, the TPI would forward the Inspection Report (IR) along with Test Certificates and other related documents to the Quality Assurance (QA) Department of BHEL. The QA department after scrutinising the report/s submitted by the TPI would issue the Material Dispatch Clearance Certificate (MDCC). Suppliers are hereby

informed that materials should be dispatched only after getting the MDCC, failing which the materials may be rejected on receipt at BHEL Stores.

b) In the case of overseas suppliers Inspection call for carrying out the inspection shall be given 30 days before the scheduled contract delivery date. The Inspection date/s given by the Supplier shall be on firm basis. For local Suppliers the Notice period of Inspection shall be 10 working days.

c) Deviations, if any pointed out by the visiting Inspection team of BHEL shall be corrected and the items as per specification shall be dispatched on or before the contract delivery date after getting the MDCC.

d) The final inspection for acceptance will, however be carried out at BHEL's works at Ranipet.

**e) The contract delivery date is the date of receipt at BHEL Stores for suppliers in India, applicable in the case of FOR Destination Contracts.**

**For ex-works contracts or FOR dispatching station indigenous contracts, the date of the Lorry way bill issued by the authorised transport carriers of BHEL / Railway Receipt / Courier Way bill / Airway bill or any such dispatch documents of carriage approved by BHEL would be considered as the Contract Delivery Date. In the case of CFR contracts with overseas suppliers, the B/L date shall be taken as the Contract Delivery Date**

f) Travel & other local stay cost for the Inspectors sent by BHEL will be to BHEL account, but other Inspection Charges, if any shall be to the account of the Seller only.

g) The supplier shall arrange for packing suitably in all respects for normal transport by sea / rail / road and Materials shall be suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports / store yards and as per BHEL TDC.

h) Foreign suppliers shall dispatch on CFR agreed Sea-Port basis, according to the contract conditions. Indian suppliers shall dispatch on free delivery (door-delivery) at BHEL stores basis only. Unloading the materials at BHEL Stores would be to the account of BHEL only.

i) In the event of any short supply, it shall be the responsibility of the supplier to deliver such short supplied/ missing items on Free-of-Cost basis at BHEL stores, including customs clearances at Indian Ports in the case of foreign suppliers.

k) Terms of payment:

k.1) For Indigenous Suppliers: Unless otherwise agreed to by BHEL, the standard payment terms of BHEL shall be: For non-MSE suppliers 100% payment made directly through EFT within 90 days from the date of receipt and acceptance of materials at BHEL Stores, Ranipet or 90 days from the date of acknowledgement of receipt of materials at destination specified. If any supplier asks for payment terms other than the above specified, then suitable loading on cost will be considered. **Loading of any deviation in the payment terms w.r.t tender terms will be "Base rate of State Bank of India (SBI) (as applicable on the date of bid opening: Techno-commercial bid opening in case of two part bids) + 6%, will be considered for loading for the periods of relaxation sought by bidders.**

k.2) For MSE vendors (under Micro & Small category alone) 100% payment will be made within 45 days from the date of receipt and acceptance of materials at BHEL Stores, Ranipet or 45 days from the date of acknowledgement of receipt of materials at destination specified.

l) NOTE:

Where the destination specified is other than BHEL Stores Ranipet, for claiming payment, Supplier has to submit proof of receipt of the materials at the destination by furnishing a copy of the acknowledged despatch document (LR/RR/Courier receipt etc.) .

If the Bidder is bidding for the first time and wants to be considered as an MSE then, the Bidder shall submit document evidencing that they are an MSE along with a certificate from a Chartered Accountant certifying the status of their Unit / Works clearly specifying the address of the works which is to be considered as MSE and send the same to BHEL, Ranipet either before the tender opening date or upload it as a part of the tender document in the e-procurement portal. Where the document is submitted electronically a hard copy shall invariably be sent within a reasonable period (not exceeding 30 days) from the bid opening date for the purpose of BHEL's records. If the hard copy is not received within this specified time, then the supplier would be treated as a non-MSE. BHEL will not be responsible for any postal / courier / delivery delays.

For approved vendors the status as on the date of the bid opening as available with BHEL Ranipet's records shall be used for reckoning the status of the Bidder as an MSE or otherwise.

Offer/s received without these documents will be treated as non-MSE and order finalization will be done based on this premise. Documents submitted after Bid-opening will not be considered in this tender. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements.

For approved suppliers, in case of any change in the MSE status, it shall be the responsibility of the Bidder to notify the change as a part of the Bid document. If at a later date it comes to the knowledge of BHEL, Ranipet that the change in the status has not been intimated by the Bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the Bidder as per the procurement policy of BHEL. Similarly if a supplier claims MSE status after the Part I bid opening, then the same would not be considered in the tender.

In case after the bid opening it is seen that no MSE has become L1, then depending on the nature of the item, if it is not possible to split the tendered items / quantities on account of reasons like customer contract requirements of supplying one make for a given project or technical reasons like the tendered item being a system etc. then BHEL would not counter offer the L1 prices even though there may be MSE bidders within the +15% band of L1.

Other concessions for MSEs / Reserved sectors (Also for women owned MSEs and MSEs owned by SC/STs)

In addition to the concessions specified above, MSE suppliers will be eligible for such other concessions as per the MSME Act 2006 and any other benefits / concessions that may be announced by the Government of India from time to time.. However, such concessions as applicable at the time of tender opening alone will be applicable. Any concessions advised after tender opening will not be considered for the current tender.

Items that are reserved for MSE and for any other items for which reservations for Indian manufacturers are notified by the Govt. Of India, such concessions as prevailing on the date of tender opening shall apply as a part of this tender conditions.

ii) Foreign Suppliers "100% thru' irrevocable & unconfirmed LC at sight within 3 weeks from the PO date through any one of our Bankers listed elsewhere in the tender conditions for 100% value (less Agency Commission, if any ) valid up to the PO delivery period and 15 days thereafter for negotiation. All bank charges in India to BHEL's account and all other charges outside India to Supplier's account. **BHEL would load the price of foreign suppliers in order to bring them on common platform as per Indigenous**

**Suppliers on the account of differential payment terms to Indigenous Suppliers. Loading of payment terms will be “Base rate of State Bank of India (SBI) (as applicable on the date of bid opening: Techno-commercial bid opening in case of two part bids) + 6%, will be considered for loading for the periods of relaxation compared to indigenous suppliers i.e. 90 days.**

m) Any incidence of tax like Income tax, Goods & Services Tax (GST) and Withholding any other similar tax / duties /levies imposed by the Government of India, or the State Government, where the BHEL Unit is located, deductible at Source, during the tenure of the Order shall be deducted by BHEL and necessary certification of the deduction (Tax deduction at Source) would be given. This is subject to the supplier fulfilling the necessary documentation as specified by the Government of India. (e.g. Tax Residency Certificate, PAN Number etc.)

n) The Guarantee period shall start from the “Date of receipt and acceptance of the materials at BHEL Stores.”

#### **E] Liquidated Damages Clause:**

BHEL will levy penalty as Liquidated Damages (LD), for delay in delivery. The damages shall be at the rate of ½% per week or part thereof subject to a maximum of 10% PLUS applicable Goods & Services Tax (GST). The contract delivery date for purpose of L.D is the date of receipt at BHEL Stores for suppliers in India for F.O.R. Destination Contract and the date of dispatch clearance given by BHEL for overseas suppliers. For ex-works or F.O.R dispatching station contracts, the date of the dispatch document will be reckoned as the date of delivery for computing the LD. Supplier shall deduct the applicable LD from the first payment when raising the claim for the same. The applicable LD if any would be communicated by BHEL along with the dispatch clearance. It is taken by BHEL that Foreign Suppliers have confirmed their acceptance to BHEL for opening the LC for value which is the value of the order reduced by the applicable LD. The LD would apply on the undelivered portion only. In case of reasons attributable to BHEL for the delay in delivery (for e.g. delay in arranging the pre-inspection) then the delivery time would be reset to the extent of the time delay attributable to BHEL, with waiver of the LD. Delivery being the essence of BHEL’s contract requirements, unless otherwise specified the LD would apply on the undelivered portion of the contracted items. **In the event that a Supplier does not accept the LD condition above, the offer would be loaded to the extent of the shortfall with respect to upper limit specified above.**

#### **F) Miscellaneous**

##### **i) Role of Principals and Agents:**

BHEL will deal directly with indigenous manufacturers only.

BHEL strongly discourages the engagement of Agents in India by foreign principals, to deal with BHEL, in BHEL’s tenders.

BHEL will not enter into any correspondence with an Indian Agent.

The Indian Agent will not be extended the privilege given to the principals, such as that of attending the tender openings, attending technical discussions, commercial discussions or price negotiations and such like.

In case, in spite of the above, a foreign principal insists on engaging an Indian Agent, It is made clear by BHEL that:

It is the sole responsibility of the foreign principal to ensure the Agent does not represent any other foreign principal in a given tender.



An undertaking to this effect shall be given by the foreign principal that his / her Agent does not represent any other foreign principal in the tender. This document shall form a part of the techno-commercial offer.

A Principal shall authorise only one Agent to quote against each BHEL's tender. In the event a Principal authorises more than one agent to quote against a BHEL's tender, then all such offers will be rejected by BHEL in that tender. Principals are also advised to include BHEL's tender Number / Reference in their authorisation issued to the Agent.

If at any stage of the tender, BHEL finds that an Indian Agent has represented more than one foreign principal, all such offers of and all the foreign principals would be disqualified summarily in the tender inquiry.

BHEL will only give an intimation of notice of the disqualification. No correspondence would be entertained by BHEL, on their decision. Such decision of BHEL shall be irrevocable, firm and final and shall be binding on the tenderer.

BHEL, due to business reasons would ban, would have banned Indian agents from dealing with BHEL.

Any foreign principal who engages such a banned agent, or an employee of the banned agency, or any other person connected with the banned agency, at any time during the tender proceedings, would be disqualified from the tender proceedings. The decision of BHEL in this regard shall be final and be binding on the OEM.

Hence in their own interests, prospective tenderers may check with BHEL, the status of their proposed agent vis-à-vis BHEL.

In view of the requirement of BHEL, it is strongly suggested that in their own interest, foreign principals may desist from engaging any Indian agent and deal with BHEL directly and it is stressed that any Main producer proposing to deal with BHEL by engaging and through an Indian Agent does so at their own risk.

BHEL shall in no way be responsible for any consequences that may arise to the foreign principal on account of the antecedents / actions of their Indian Agent.

**In the event of the foreign principal engaging an Indian Agent:**

**a) The Supplier shall furnish an authenticated copy of the Agency Agreement with his agent detailing the precise relationship between them and their mutual interest in the business along with techno-commercial bid.**

b) The Supplier shall furnish original authorization letter for the Indian Agent. The letter shall contain name, contact person, complete postal address including phone, fax and e-mail ID. It shall also spell out the type of services to be rendered by Indian Agent.

c) Indian Agent & Agency commission: An Indian Agent can represent only one Foreign Manufacturer against a particular Tender. The CFR price quoted by the foreign bidder shall include the agency commission. However, the agency commission component payable to their Indian Agents shall be shown separately in the Offer, either as a lump-sum or as a percentage of the quoted price. This will be paid by BHEL in Indian Rupees, on satisfactory receipt & acceptance of the materials. For calculation of Rupee equivalent of Agency Commission, exchange rate as prevailing on the date of Purchase Order will be taken and

d) For all discussions, technical clarification and negotiations etc. only the principal would be authorized for interaction with BHEL. The Agent shall not be a party to the discussions / negotiations and would not be normally allowed to participate.

**ii) Terms & Conditions of Letter of Credit (L/C) for overseas suppliers (indicated for acceptance).**

a) Unconfirmed irrevocable Letter of Credit at Sight only will be opened by BHEL. Confirmation of L/C is not preferred by BHEL. Also L.C will be opened in Lots in line with the staggered delivery.

b) All Bank charges out side India are to the Supplier's account and within India to BHEL's account.

c) In case of L/C extension caused by delays attributable to the Supplier, the L/C extension / commitment charges are to be borne by the Supplier.

**iii) Other terms & conditions for letter of credit: - Documents for negotiation**

a) Signed Commercial invoice in quadruplicate, for a value not exceeding the draft amount, quoting the import Licence No and certifying goods evidencing shipment of the merchandise are as per Applicant's Purchase Order. The amount of invoice after deducting Indian Agent's commission, if any, should not exceed the Credit amount. (The Indian agent's commission, if any, is payable in India in Indian rupees only.)

b) Certificate of Country of Origin, from the country of manufacture, issued by the Chamber of Commerce.

c) One set of Original and two sets of Non-negotiable copies of 'signed', 'unmarked', 'clean on board' Ocean Bill of Lading, showing Shipper as "Government of India" Account M/s. Bharat Heavy Electrical Ltd, Unit: BHEL, Ranipet as consignee (The opening bank should not be notified as consignee), marked freight payable / prepaid at destination.

d) Packing list in 4 copies in English, indicating Size wise Number of bundles / pieces shipped and weight.

e) Certified copy of the fax / e-mail sent by the beneficiary to the applicant giving the following particulars of shipment, as the insurance is to be arranged by the Applicant in India: (a) Purchase Order Number & date; (b) Bill of Lading Number & date (c) Name of vessel; (d) Port of Loading; (e) Number of bundles / pieces and weight; (f) Invoice Number, date and value (g) Purchase Order item number's despatched. The cable / fax is to be sent within 2 working days of shipment.

f) Beneficiary's certificate showing the relevant airmail / courier reference no. and date that the following clauses have been complied with:

1] Beneficiary to forward by Registered Airmail / Courier one complete set of original documents and one set of non-negotiable documents within 3 working days of obtaining shipping documents to Regional Manager (ROD), Bharat Heavy Electricals Ltd, 6th Floor, EVR Periyar Bldg. No 690 (Old 474), Anna Salai, Nandanam, Chennai-600035. India. (Phone: +91-24330931, 24330253; e-mail: pbpwar@bhel.in)

2] Beneficiary to courier at his cost 3 copies of complete set of non-negotiable documents to the Officer who released the Purchase Order.

3] Declaration by the Supplier certifying that the contents in each case are not less than those entered in the invoices / packing list and that the invoicing for the supplies effected is strictly in accordance with agreed rates as stipulated in the Purchase Order.

4] Declaration to the effect that all other documents as per purchase order has been couriered to the Purchase order releasing authority

5) The carrying steamer should be seaworthy, less than 25 years of age and approved by Lloyds / Classification Societies / General Insurance Corporation of India from time to time and

6) Copy of Dispatch Clearance / Instruction issued by BHEL.

**iv) Documents to be sent directly to the Purchaser prior to shipment**

- a) Manufacturer's Original Internal Inspection / Test certificate in triplicate.
- b) Manufacturer's Original Guarantee certificate as per Purchase Order. The material shall be guaranteed for a period of 12 months from the date of acceptance of the materials at BHEL stores or 18 months from the date of dispatch whichever is earlier. The acceptance would be evidenced by the Stores Receipt Voucher (SRV) which will be raised by BHEL.
- c) Inspection / Test Certificate issued by BHEL / Inspection agency specified in the Purchase Order. In the event that Inspection prior to dispatch is not carried out by the Engineers of BHEL, the Inspection certificate of the third party so authorized by BHEL and
- d) Any other documentation as specified in the Purchase Order.

**v) Conditions for transportation:**

- a) All shipping documents shall show the Purchase Order Number & Date, Import Licence Number & Date, and Letter of Credit Number & Date.
- b) Transshipment is to be avoided.
- c) Loading on deck is not permitted. The transport document must not contain a provision that goods may be carried on deck.
- d) A transport document which is produced or appearing to have been produced by reprographic, automated or computerized systems or as carbon copy will be accepted as an original document provided that it is marked as original and is ink-signed.
- e) The transport document must contain all the conditions of carriage on the original document.
- f) The transport document must not indicate the place of destination as being different from the port of discharge.
- g) The transport document must not contain the indication 'intended' or similar qualification in relation to the vessel or other means of transport or port of loading or port of discharge.
- h) The transport document must be issued by the carrier or his agent and not by any freight forwarder.
- i) Transport documents bearing reference by stamp or otherwise, to costs additional to the freight charges are not acceptable.
- j) The Bills of Exchange must be dated and presentation of documents for negotiation must not be later than 15 days after the date of shipment and in any case not later than the expiry date of the Credit.
- l) Indian suppliers shall dispatch the materials on freight prepaid and on door-delivery basis (FOR Destination – Destination: BHEL Stores) and
- m) In the event there is a delay by the Supplier in negotiating / submitting the document, any demurrage / wharfage arising out of the same shall be to the account of the Supplier and shall be deducted from the final payment. Also, in such cases, the Supplier shall authorize the Steamer / Shipping agent / transporter to freely release the consignment to BHEL by providing a “Surrender Bill of Lading”. Over-seas Suppliers have to give a No-Objection Certificate to BHEL, authorizing BHEL to get the Delivery Order from the Steamer

Agent without producing the Original Bill of Lading. This is required to ensure avoidance of incidence of demurrage at Chennai Sea-port that may arise in case of delayed presentation of documents by the Seller.

**G) Reverse auction (RA) / on-line bidding on internet:**

1. *"BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders shall give their acceptance with their offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of the bids, in case BHEL decides to go for RA."*

2. *Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for "Suspension of Business Dealings with Suppliers/ Contractors (as available on [www.bhel.com](http://www.bhel.com))."*

3. The philosophy followed for reverse auction shall be English Reverse (No ties).

4. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.

5. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.

8. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.

9. Reverse auction will be conducted on scheduled date & time.

**Note: Decision to go for RA or not will be on case to case basis.**

10. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

11. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, to the Service provider within two working days of Auction without fail.

12. Bidders are be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction.

13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with their offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, would also be opened after the RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. It is considered that the bidder having submitted their offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rate/s.
16. If it is found that L1 bidder has quoted higher in the online sealed bid in comparison to the envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on [www.bhel.com](http://www.bhel.com))."
17. The calculation sheet e.g. excel sheet (which will help to arrive at 'Total Cost to BHEL') will be communicated to respective bidders of RA by BHEL. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Goods & Services Tax (GST) and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.]
18. This calculation sheet will be finalized based on the evaluation criteria specified in the NIT.
19. Suppliers are required to submit their best price bid in a separate sealed cover along with techno-commercial bid. After evaluation of Techno-Commercial Bids:
- a) In case BHEL decides not to conduct RA, the envelope sealed price bids of all techno-commercially qualified bidders, along with price impact, if any, would be opened and processed as per extant the internal Purchase/ Works Policy as applicable to BHEL.
  - b) In case BHEL decides to conduct RA, business rules of RA will be sent to service provider.(See Annexure for Model General Business Rules of RA.)
20. Generally the start price for the RA would be the lowest of
- a) Lowest online sealed bid and
  - b) Internal Estimate of BHEL
- Note: Wherever more than one lowest online sealed bids are identical and lower than the estimate, the start price, would be that price arrived by reducing the lowest online sealed bid by maximum of one decrement.*
21. Reverse auction process would deemed to have started upon receipt of 'Online Sealed Bids' from the bidders within the prescribed time frame as per Business Rules.
22. After receipt of 'online sealed bids', the start price & bid decrement will be decided by BHEL and the same would be communicated to the service provider, to start the bidding process.
23. Only those bidders who have submitted the 'online sealed bid' within the scheduled time would be eligible to participate further in RA process. However, the H1 bidder (whose quote is highest in online sealed bid) will not be allowed to participate in further RA process provided minimum three bidders are left after removal of H1 bidder. In case of tie for H1 bid (identical online sealed bids), 15 minutes additional time

would be provided and all the participating bidders would be informed by mail/ message on bidding screen to enable bidders submit revised online sealed bids so as to break the tie.

24. If the lowest online sealed bid is the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system. System would have the provision to indicate this bid as current L1 for further bidding.

25. If the start price is lower than the lowest online sealed bid, on acceptance of such start price by any bidder, this bid would be indicated as current L1 for further bidding.

26. In case of no further bidding, RA will be deemed to have been successful with current L1 bidder.

27. All bidders who had given online sealed bid would be able to see their rank and L1 price and their ranking L1, L2 etc. would be based on their last quoted price irrespective of quote received in RA or online sealed bid.

28. RA shall be treated as failed in the following scenarios:

a) In cases where the start price is (a) estimate or (b) one decrement (maximum) lower than the lowest of the online sealed bids and no bidder accepts the start price.

b) In cases where the number of online sealed bids are less than four before removal of highest bidder.

c) In cases of tie among H1 bidders, even after extension of submission of online sealed bids once by 15 minutes.

d) Wherever, the evaluation is done for individual line items, RA shall be treated as failed only for those line item(s) for which any of the above a), b) or c) satisfies.

29. In cases of failure of RA, sealed envelope price bids (of item(s) for which RA has failed) of all the techno-commercially qualified bidders would be opened and the tender would be processed accordingly. However, the envelope sealed bid(s) of techno-commercially acceptable bidder(s) who had agreed to participate in the RA and had failed to submit the online sealed bid would not be opened.

30. After declaring L1 upon completion of RA, the envelope sealed price bid of L1 bidder would also be opened for placement of order on lower of the two bids (RA closing price & envelope sealed price) and the offers would be processed as per extant their internal Purchase/ Works policy provisions of BHEL. Action as per NIT terms would be taken if online sealed bid is higher than the envelope sealed bid.

31. Relative position of bidders (for usage in cases of predefined splitting the quantities) would also include bidders who have given 'online sealed bids' but have not given further bids in auction. In case of splitting requirement, H1 bidder may be considered for counter offer if the pre-stated (NIT) numbers of suppliers do not accept the counter offer. However, principle of splitting to N-1 bidder would be maintained.

32. In case H1 bidder happen to be MSE and was removed from further bidding but is within L1 + 15% band, then this bid would be considered and to be processed in line with 'Public Procurement Policy for Micro & Small Enterprises (MSEs) order, 2012'.

33. For providing preference to domestically manufactured Electronic Products, in accordance with Department of Electronics and Information Technology (DeitY) Gazette Notification No. 33(3)/2013-IPHW dated 23.12.2013 and its related notifications issued from time to time, H1 bidder removed from further bidding would be considered for counter-offer to meet domestic bidder requirement for the item(s) under procurement.

34. In case BHEL decides not to go for Reverse Auction for the tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL would be opened as per BHEL's standard practice.

35. In case of enquiry through e-Procurement, the sealed electronic price bid (e-bid) would be treated as sealed envelope price bid.

**Note: In order to bring more transparency and to address any queries of Bidders on Reverse Auction, an abridged version of BHEL's "Common Guidelines for conducting Reverse Auction (RA)" has been hosted in BHEL's web site [www.bhel.com](http://www.bhel.com) under the links "Supplier Registration Page" and "Tender Notification". All Bidders are requested to visit the link and familiarize themselves with BHEL's RA procedures and guidelines before submission of their bid/s. Submission of Bid shall mean that the Bidder has read and understood BHEL's RA procedures and the bid is in agreement with the same.**

#### **H] Force Majeure**

If at any time during the currency of this contract, the performance in whole or in part, by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events), then provided notice of happening of any such events is given by either party to other within ten days from the date of occurrence thereof, neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

#### **I] Cancellation of Order:**

In the event of non-performance of the contract by the Supplier, BHEL reserves the right to cancel the order with issue of a written notice. BHEL would provide a curing period of 30 days, for the Supplier to rectify the situation. If the Supplier fails to rectify the reason/s that led to the issue of cancellation notice by BHEL, then the cancellation order would be issued automatically by BHEL, without further recourse to the Seller. BHEL will not pay any cancellation charges or any other charges / damages to the Supplier, arising out such cancellation. In the event of the non-performance of the supply contract, by the Supplier, the rights of BHEL include, in addition to cancelling the order, to take alternate purchase action at the cost and risk of the supplier. The additional expenditure to be incurred by BHEL in such alternate purchase would be to the account of the supplier. (Risk Purchase). This remedy would be in addition to the invoking of the CEBG on grounds of failure of the Supplier in executing the Contract and any other legal remedies." BHEL reserves the right to initiate the alternate purchase action at the cost and risk of the erring supplier by issue of a simple notice of intention for the alternate purchase action duly sent by any electronic means and / or by a letter. The cancellation of the order would not be a pre-condition for initiation of the alternate purchase action.

#### **J] Contract Execution Bank Guarantee:**

To demonstrate the fidelity of the successful bidder, in executing the Contract, on receipt of the Letter of Intent / Purchase Order, the Supplier shall arrange to provide a contract execution bank guarantee (CEBG). The format of the CEBG is a part of this enquiry. The format may be downloaded and necessary stamping may be obtained from the Banker towards submission of the CEBG. The indigenous suppliers have to provide the CEBG from any one of the Nationalized Banks, listed in the annexure to these terms. Overseas suppliers can submit the CEBG from any of the reputed International / National Bankers. However the CEBG is to be confirmed by any of the Bankers listed by us. In the event of failure by the Supplier to execute the contract either fully or partially, BHEL would encash the entire CEBG. The CEBG shall be valid for the period covering the agreed delivery date of the order with a further claim period of 3 months on the last specified delivery date. In the event of the failure of delivery BHEL would proceed with encashing the CEBG without reference to the Supplier. In the event of BHEL granting extension of the delivery dates, then the CEBG validity shall also be got extended by the Supplier to the extent of the extended delivery times together with the claim period as specified elsewhere. **The CEBG shall be for a value of 2% of the Purchase order.**

**Suppliers who are all already registered with BHEL and having a vendor performance rating of A or A+ grade would be exempted from submission of CEBG.**

#### **Performance Bank Guarantee**

Where ever so required, the Supplier shall arrange to provide a Performance bank guarantee (PBG). The indigenous suppliers have to provide the PBG from any one of the Nationalized Banks, listed in the tender terms. Overseas suppliers can submit the PBG from any of the reputed International / National Bankers. However the PBG shall be confirmed by any of the Bankers listed by us. The PBG shall guarantee the performance of the equipment / materials / items supplied and shall cover the guarantee period. The PBG shall have a claim period of 3 months in addition to the guarantee period. In the event of failure of the supplies made within the guarantee period, BHEL would encash the entire PBG. **The PBG shall be for a value of 10% of the Purchase order.**

**The supplier/s have to get the PBG format (pre-printed) from BHEL and get the same stamped by the Banker. Change of PBG terms either by the supplier's Banker or by the supplier, after servicing of the order is not acceptable. Similarly PBG prepared by the supplier (typed by them) will also not be acceptable to BHEL. The pre-printed form issued by BHEL shall be used for making the PBG.**

#### **K] Post-order submission of documents for approval**

In the event of the release of Letter of Intent (LoI) / Purchase order/s (PO) against this tender, Bidders have to submit the applicable documents as called for in the tender / LoI / PO/s, such as drawings, data sheets, design calculations etc. These documents for approval have to be submitted within the agreed timelines between BHEL and Bidder. Normally the time period for submission for approval is 15 days from the date of receipt of the LoI / PO by the supplier. The actual time period within which the documents have to be submitted for approval would be specified in the LoI / PO.

Such documents would be subjected to evaluation and approval by BHEL and / or by BHEL's customer / Consultant / Customer's Consultant. Bidders have to give their specific acceptance for this.

After approval of such documents and after getting clearance from BHEL, only the items ordered can be taken up for manufacture.

Any changes required by BHEL / Customer etc. in the documents submitted for approval shall be incorporated by the Bidder and no extra cost would be payable by BHEL for such changes.



In the event that the Bidder does not carry out the required corrections, then the LoI / PO would be liable for cancellation by BHEL and BHEL would resort to alternate purchase action at the risk and cost of the Bidder under the Risk Purchase Condition of the Purchase Order.

*Note: After receiving the LoI / PO, supplier shall also forward the acknowledgement / acceptance of the LoI / PO by signing and returning the second copy of the LoI / PO as the token of acceptance.*

#### **L] Others**

a) In case of any contradiction in the terms and conditions given here and elsewhere in the other documents of the tender, it shall be the responsibility of the tenderer to get it clarified from BHEL. The officer authorized to provide such clarifications is the tender issuing officer.

b) Alterations to the conditions of the Tender can be done only by the authorized officer, at any time before the date and time of tender opening and would be duly communicated through a corrigendum.

#### **c) Suspension of Business dealings with Suppliers:**

(i) Before submitting offer, prospective bidders are advised to visit our web-site [www.bhel.com](http://www.bhel.com) / supplier registration to familiarize themselves with BHEL's policy and procedures of Suspension of Business Dealings with Suppliers.

Submission of offer shall be deemed to be evidence of the Bidder to have read and understood the above said policy.

#### **ii) Treatment of Banned / Under-performing Vendors:**

Any supplier who has been put on "Hold" or "Banned" from having business dealings with BHEL, Ranipet or any other unit of BHEL shall not submit their offer against this tender. If any such offers are received they would be summarily rejected and sent back. During the processing of tender, if any unit of BHEL puts a supplier on "Ban" then further processing of the offer will not be taken up and in case an order is placed, BHEL, Ranipet may resort at their discretion to cancel the PO either fully or partially.

If any of the supplier who is supplying similar material to BHEL, Ranipet has a Vendor Performance Rating (VPR) score of 'C' or below, then offer given by such parties will not be considered for ordering in this tender.

If any of the Bidders have unexecuted order/s with BHEL and if in such orders, the deliveries have been delayed beyond a reasonable period (say 30 days of agreed delivery period), the offer of such Bidders will also be liable for rejection.

Offers of such of those bidders against whom action for suspension of business dealings has been initiated by BHEL, Ranipet or any other Units/Division of BHEL will also not be considered in this tender.

#### **d) Fraud Prevention Policy:**

The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

#### **e) Applicability of Integrity Pact:-**

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



| Sl | IEM                                      | Address                                                                            | Phone & Email                                                              |
|----|------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1. | Shri.D.R.S Chaudhary,<br>IAS (Retd.)     | E-1/164,Arera Colony<br>Bhopal 462016 (M.P.)                                       | <a href="mailto:dilip.chaudhary@icloud.com">dilip.chaudhary@icloud.com</a> |
| 2. | Shri Pravin Tripathi,<br>IA & AS (Retd.) | D-243, Anupam<br>Gardens, Lane IB,<br>Sarai, Sainik Farms,<br>New Delhi – 110 068. | <a href="mailto:pravin.tripathi@gmail.com">pravin.tripathi@gmail.com</a>   |

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid(Part-I, in case of two/three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM(s).All correspondence with the IEMs shall be done through email only.

Note:

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

*For all clarifications/ issues related to the tender, please contact:*

Name: (1) ..... (2) .....

Dep't: .....

Address: .....

.....

Phone:(Landline/Mobile) (1) ..... (2) .....

Email:

Fax:

Integrity Pact are applicable for all the BHEL enquiries whose estimated value is equal to or more than Rupees 05 Crores.

Copy of Integrity Pact with applicable nominated IEM is attached along with the tender documents for ready reference of Suppliers.

f) If any Supplier attempts to bribe, or pay commission, gift or any advantage or bring in undue influence either by himself or on his behalf any one including a stranger to the tender, in addition to instituting legal proceedings as per the extant laws prevailing, will disqualify the supplier from this tender and all future tenders of BHEL. Decision of the Purchaser would be final in this matter.

g) The laws governing this transaction shall be the laws in India.

h) Wherever not specified, Inco terms 2010 shall be used to interpret the Commercial terms and conditions and

i) In the event of an order, Supplier shall agree to settlement of disputes or differences, if any, by way of arbitration, in accordance with the “Rule of Arbitration” of the Indian Council of Arbitration.

*The language in the tender documents downloaded by the Bidders shall at no point of time be changed, altered or modified in any manner by the Tenderer. If such changes are made by any tenderer, it shall be considered as tampering with BHEL’s terms and the offer shall be summarily rejected, whenever it is noticed by BHEL. Such Bidders would be disqualified from the Bidding Process and their offers would be forfeited / Bank Guarantees invoked. They would also not be allowed to participate in future tenders of BHEL.*

#### **M. Conditions for rejection of offers:**

**Following is the list of situations which would lead to rejection of offer/s.**

**This list is not exhaustive but only indicative.**

BHEL reserve the right to reject one or all offers without assigning any reason. The decision of BHEL will be final in this regard.

1. *If the offer fails to meet the technical requirements/specifications of the tendered item/s.*
2. *If the offer does not meet the commercial terms & conditions, such as but not limited to delivery period specified in the tender, Delivery terms, payment terms, Liquidated damages, Risk Purchase, cancellation clause etc., including the load factors specified in the tender.*
3. *If the bidder fails to respond to clarification sought, within a reasonable period. In case of doubts / lack of clarity on the technical and commercial offer of the bidder, BHEL will seek clarifications. Bidders are required to respond completely to such BHEL’s queries within 3 working days unless otherwise agreed to in writing by BHEL for period beyond 3 days. If supplier fails to respond within 3 working days or maximum 2 working days on a reminder thereon, the offer of such bidders will be automatically dis-qualified in the tender without further recourse to informing the bidder.*
4. *If any of the conditions listed below are applicable to the bidder, the offer is liable to be rejected:*

If any

- Debt recovery / Winding up Proceedings are initiated against the Company in Courts / Debt Recovery Tribunals (DRTs),
  - Proceedings are there against the Company in National Company Law Tribunal (NCLT) with respect to Insolvency and Bankruptcy Code (IBC) or otherwise,
  - Any proceedings are there against the Company under the “Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act,
  - Any restructuring proceedings are underway for the Company under Corporate Debt Restructuring (CDR), Strategic Debt Restructuring (SDR) or otherwise,
  - Divestment / demerger proceedings are underway for the Company under the Companies Act.
  - If action under guidelines of suspension of business dealings (Ref AA/MM/SB/01 Rev 02 dt 22.07.2016) and its latest revisions has been initiated against the company/bidder.
5. *Failure to sign & accept the Integrity Pact (where applicable). Bidders are hereby informed that the contents of the Integrity Pact are firm and fixed and cannot be changed.*

The above list is not exhaustive but is indicative only.

#### **N. Special Note:**

BHEL is a Government of India Undertaking. Its procurement practices are governed by the (Internal) Purchase Policy issued by the management of the company and as per Annexure B applicable at the time of finalising the order against this tender.

**-O-**

**Record of Revisions:**

| Revision No. | Revision Date | Modification                                                                                                                                                                                                                                             |
|--------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01           | 17.08.2016    | Payment terms for Foreign suppliers modified wrt loading- Clause k.ii                                                                                                                                                                                    |
| 02           | 29.08.2016    | Treatment of banned vendors – Para 3 added - Clause L.ii                                                                                                                                                                                                 |
| 03           | 14.09.2016    | Opening of offers – clause B – sub clause ‘b’ included and existing clause ‘b’ renamed as ‘c’.                                                                                                                                                           |
| 04           | 14.09.2016    | Opening of offers – Note – sub clause (ii) modified                                                                                                                                                                                                      |
| 05           | 12.10.2016    | Clause N. Special Note added                                                                                                                                                                                                                             |
| 06           | 22.10.2016    | Clause G Reverse Auction modified.<br>Annexure on General Business Rules for Reverse Auction appended<br>Role of Principals added under ‘Miscellaneous’                                                                                                  |
| 07           | 20.01.2017    | Clause L (e) is modified.<br>Clause L (f ,g ,h) renumbered.                                                                                                                                                                                              |
| 08           | 24.02.2017    | Clause F(c) modified.                                                                                                                                                                                                                                    |
| 09           | 08.07.2017    | Clause M, Point 4 is added – regarding the financial health of the Bidder - as a criterion for disqualification.                                                                                                                                         |
| 10           | 20.07.2017    | Duties and Taxes replaced with GST; Applicability of GST for LD inserted in Clause E; Treatment of poor performing current vendors inserted in clause L.c.(ii)                                                                                           |
| 11           | 25.07.2017    | Clause A.Note (iii) CST etc., replaced with GST;<br>Clause C.f Deleted;                                                                                                                                                                                  |
| 12           | 15.09.2017    | Clause M, Point 5 inserted regarding Integrity Pact                                                                                                                                                                                                      |
| 13           | 21.03.2018    | Clause A, Point xi inserted regarding Overwriting in Price Bids                                                                                                                                                                                          |
| 14           | 28.05.2018    | Clause A, a),b),c),d) amended for M/s E-Procurement technologies, <a href="https://bhel.abcprocure.com">https://bhel.abcprocure.com</a> .<br>Clause A, (f, g, h) – modified.<br>Clause M, Point 4, - regarding suspension of business dealings inserted. |
| 15           | 23.07.2018    | Clause L,(e)- Applicability of Integrity Pact – modified.                                                                                                                                                                                                |
| 16           | 31.08.2018    | Clause C,(n)- Preference to Make in India – added.                                                                                                                                                                                                       |
| 17           | 04.12.2018    | Clause C,(n)- Preference to Make in India & Clause K.2 Note - MSE concessions– modified.                                                                                                                                                                 |
| 18           | 13.02.2019    | Clause C,(n)- Preference to Make in India – modified, Page no 9 Clause o – Extended credit period - removed.                                                                                                                                             |

## ANNEXURE

### Model General Business Rules for Reverse Auction

This has reference to tender no {tender number....date...}. BHEL shall finalise the Rates for the supply of {item name} through Reverse Auction mode. BHEL has made arrangement with M/s. {Service provider}, who shall be BHEL's authorized service provider for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. {...} dated {...}, (b) Bidders' technical & commercial bid (in case of two part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

#### 1. Procedure of Reverse Auctioning

- i. Online Sealed Bid: This duration of online sealed bid will be {...} minutes. All bidders to submit their online sealed bids during this period.
- ii. Online Reverse Auction: The 'opening price' i.e. start price for RA and 'bid decrement' will be decided by BHEL.
- iii. If BHEL decides the lowest online sealed bid as the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- iv. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process.
- v. After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.

**2. Schedule for Reverse Auction:** The Reverse Auction is tentatively scheduled on {date}: and the duration of online sealed bid will be {...} minutes. All bidders to submit their online sealed bids during this period.

**- Online Sealed Bid:-**

- {Start Time:
- Close Time: }

**- Online Reverse Auction:-**

- {Start Time:
- Close Time: }

#### 3. Auction extension time:

If a bidder places a bid in the last {...} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {...} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last {...} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {...} minutes. In case, there is no bid in the last {...} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last

minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be

given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes prior to initial closing time of Online Reverse Auction.

**4. Bid price:** The Bidder has to quote the {.....} Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, GST, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in technical/commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).

**5. Bidding currency and unit of measurement:**

Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications {...}

In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.

**6. Validity of bids:** Price shall be valid for {... days} from the date of reverse auction. These shall not be subjected to any change whatsoever.

**7. Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.

**8.** Bidders shall be assigned a **Unique User Name & Password** by M/s. {Service provider}. Bidders are advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from M/s. {Service provider} to ensure confidentiality. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders' company.

**9.** Post auction procedure: BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.

**10.** Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.

**11.** Computerized reverse auction shall be conducted by BHEL (through M/s. {Service Provider}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained. Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders'

responsibility/ decision to send fax communication immediately to M/s. {Service provider}, furnishing the price the bidder wants to bid online with a request to the service provider to upload the faxed price online so that the service provider will upload that price online on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price to service provider has to solely ensure that the fax message is received by the service provider in a readable/ legible form and also the Bidder should simultaneously check up with service provider about the clear receipt of the price faxed. It shall also be clearly understood that the bidder shall be at liberty to send such fax communications of prices to be uploaded by the service provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the service provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service provider at the time of receipt of the fax message from the bidders, the service provider will not be uploading the prices and either BHEL or the service provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are

requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.

**12. Proxy bids:** Proxy bidding feature is a pro-bidder feature to safeguard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid. Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant. In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price. Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

**13.** Bidders are advised to get fully trained and clear all their doubts such as refreshing of screen, quantity being auctioned, tender value being auctioned etc. from M/s. {Service provider}.

**14.** M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions/modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.

**15.** Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure-VI) for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.

**16.** Any variation between the final bid value and that in the confirmatory signed price breakup Document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)).

**17.** Bidders' bid will be taken as an offer to execute the work/ supplies of the item as per enquiry No. {...} dt. {...}. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)).

**18.** Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:

- a. Leading (Running Lowest) Bid in the Auction (only total price of package).
- b. Bid Placed by the bidder.
- c. Start Price.
- d. Decrement value.
- e. Rank of their own bid during bidding as well as at the close of auction



19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supersede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time..
24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on [www.bhel.com](http://www.bhel.com)), shall be initiated by BHEL.



**RA price confirmation and breakup**  
(To be submitted by L1 bidder after completion of RA)

To  
- M/s. Service provider  
- Postal address

CC: M/s BHEL

BOILER AUXILIARIES PLANT  
INDIRA GANDHI INDUSTRIAL COMPLEX  
RANIPET – 632406  
TAMILNADU  
INDIA.

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted.

**Rs.{ \_\_\_\_\_ in value & in words \_\_\_\_\_ } for item(s) covered under tender enquiry**  
**No. {...} dt.{...}**

Total price of the items covered under above cited enquiries is inclusive of {Packing & forwarding, GST, freight and insurance charges up to {.....}  
District, {.....} State and Type Test Charges etc., [exclusive of Goods & Services tax (GST)],  
other as  
per NIT}

as our final landed prices as quoted during the Reverse Auction conducted today {date} which will  
be valid for a period of { \_\_\_\_ in nos. & in words \_\_\_\_ } days.

The price break-up including that of line items is as given below.

Total

=====

- Rs.in value & in words

=====

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely,

For \_\_\_\_\_

Name:

Company:

Date:

Seal:

**ANNEXURE - C1**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Indigenous Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| SL No. | DESCRIPTION                                       | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | VENDOR (SELLER) CONFIRMATION |
|--------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| I      | <b>Technical</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 01     | SCOPE OF SUPPLY                                   | <p>Please confirm the Scope of Supply of "SWRO &amp; BWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES, SPECIAL TOOLS FOR MEMBRANE ASSEMBLY / DISASSEMBLY &amp; COMMISSIONING SPARES" as per Specification No.</p> <p>1) TECHNICAL SPECIFICATION FOR SWRO &amp; BWRO PRESSURE VESSELS - ROS:6252, REV:00 DATED 22.06.2019,<br/> 2) SWRO PR VESSEL VARIANT - ANNEXURE A,<br/> 3) BWRO PR VESSEL VARIANT - ANNEXURE B,<br/> 4) PRE-QUALIFICATION REQUIREMENT - FIRST PASS RO (SWRO) MEMBRANE PRESSURE VESSELS - RWT90775:SWROPV REV 00 DATED 08.07.2019</p> <p>submit the same after necessary Filling,signing &amp; returning a copy of the same.</p> |                              |
| 02     | SPECIFICATION                                     | Please confirm Clause wise / Point wise "IN TOTO" for all specifications and submit along with offer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
| 03     | DATA SHEETS / DRAWINGS                            | Filled Data Sheets and Drawings are to be submitted along with offer. (if applicable )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| 04     | QUALITY ASSURANCE PLAN (QAP)                      | <p>Please Confirm to submit the QAP / RQP / MQP as per the Customer Sample Format for review and approval by customer within 2 Weeks from the date of Letter of Award (LOA).</p> <p>Please Refer <b>Annexure - Q</b> and provide your acceptance.</p>                                                                                                                                                                                                                                                                                                                                                                                              |                              |
| 05     | SPECIFICATION DEVIATION DISPOSITION REPORT (SDDR) | Attached SDDR to be filled & submit along with offer. (Even, If NO deviation is taken, NIL report to be submitted).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
| 06     | COMMISSIONING SPARES                              | <p>Please confirm that the "COMMISSIONING SPARES WILL BE SUPPLIED ALONG WITH MAIN SUPPLY FOR TROUBLE FREE COMMISSIONING.</p> <p>Commissioning spares shall be packed separately with detailed packing list (items should not be packed along with main supply items)</p> <p>Any other spare(s) required during commissioning but not indicated in the list, should also be supplied at your cost.</p>                                                                                                                                                                                                                                              |                              |
| 07     | MANDATORY SPARES                                  | <p>Please confirm that the " Supply of "MANDATORY SPARES" as per the Technical specification.</p> <p>Mandatory Spares shall be packed separately with detailed packing list (items should not be packed along with main supply items)</p> <p>Mandatory Spares List and the individual price should be indicated.</p> <p>The Bidder should also indicate if any spare(s) other than those indicated in the spec is/are required.</p>                                                                                                                                                                                                                |                              |
| 08     | PRE-QUALIFICATION REQUIREMENT                     | Vendor should submit the Filled QR Annexure & Necessary supporting documents proof for meeting the QR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| II     | <b>Commercial Terms &amp; Conditions</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 01     | PRICE                                             | Please confirm 'Firm Price' till completion of order                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
| 02     | UNPRICED BID (PART-1)                             | <p>Please confirm submission of 'Unpriced bid' in the price bid format attached duly signed.</p> <p>SCANNED COPY of FILLED &amp; SIGNED COPY OF 'Price Bid' format attached by filling all informations by writing 'Quoted' as the case may be in the 'Rate' and 'Value' columns to be submitted through E-Procurement System.</p>                                                                                                                                                                                                                                                                                                                 |                              |

**ANNEXURE - C1**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Indigenous Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No. | DESCRIPTION                                                      | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VENDOR (SELLER) CONFIRMATION |
|---------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 03      | PRICED BID (PART-2)                                              | <p>Please confirm submission of 'Priced bid' in the price bid format attached duly signed.</p> <p>SCANNED COPY of FILLED &amp; SIGNED COPY OF 'Price Bid' format attached by filling all informations by writing the value as the case may be in the 'Rate' and 'Value' columns in a separate attachment to be submitted through E-Procurement System.</p> <p><b>Price bid opening will be considered after the Techno-Commercial evaluation &amp; further final approval from the customer: TANGEDCO UDANGUDI STPP PROJECT</b></p> |                              |
| 04      | DELIVERY TERMS & PRICE BASIS                                     | <p>Please confirm for FOR - Destination (<b>BHEL BAP STORES - RANIPET</b>) basis.</p> <p>Unloading the Material at site is BHEL Scope.</p>                                                                                                                                                                                                                                                                                                                                                                                          |                              |
| 05      | CONSIGNEE ADDRESS (SUPPLY DESTINATION)                           | <p>Please confirm supply to the following consignee address in the event of Order.</p> <p><b>THE SDGM / STORES</b><br/> <b>BHEL- BAP, RANIPET,</b><br/> <b>VELLORE DISTRICT- 632 406</b><br/> <b>TAMILNADU.</b></p>                                                                                                                                                                                                                                                                                                                 |                              |
| 06      | ORIGIN OF DESPATCH OF VARIOUS CONSIGNMENT                        | <p>Please indicate clearly the origin of despatch of various consignments duly indicating whether interstate or intrastate based on the consignee address above. Origin of despatch should not be subjected to change during execution of contract.</p>                                                                                                                                                                                                                                                                             |                              |
| 07      | PACKING & FORWARDING                                             | <p>Please confirm inclusion of Packing &amp; Forwarding Charges in the Basic quoted price.</p> <p>If it is extra payable by BHEL, Please clearly indicate the applicable Packing &amp; Forwarding charges in % value.</p>                                                                                                                                                                                                                                                                                                           |                              |
| 08      | FREIGHT & INSURANCE                                              | <p>Please confirm inclusion of Freight &amp; Insurance Charges towards this in the Basic quoted price.</p> <p>A) If Freight &amp; GST is extra payable by BHEL, Please clearly indicate the applicable portions of :<br/> 01.Freight charges in % on Basic Quoted price.<br/> 02.If GST applicable for the freight kindly indicate the same.</p> <p>B) If Insurance is extra payable by BHEL, Please clearly indicate the applicable portions of : Insurance charges in % on Basic Quoted price.</p>                                |                              |
| 09A     | GOODS AND SERVICES TAX FOR SUPPLY PORTION (CGST/SGST/UTGST/IGST) | <p>Please indicate the exact percentage of CGST/SGST/UTGST/IGST (whichever is applicable) is quoted as per the existing tariff on the date of the offer and all benefits as per existing laws have been considered.</p> <p>It is the responsibility of the seller to issue the Tax Invoice strictly as per the format prescribed under the relevant applicable GST law (CGST Act/SGST Act/UTGST Act/IGST Act).</p> <p>Vendor to indicate the proper GSTN Registration/ HSN code in their tax invoice.</p>                           |                              |
| 09B     |                                                                  | <p>Please Confirm the Applicable percentage of CGST/SGST/UTGST/IGST Payable Extra by BHEL (OR) Not?</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
|         |                                                                  | <p><b><u>In case of Non-MSE vendors,</u></b><br/> 100% payment will be against <b>Receipt of Material at Stores (DB i.e Day Book Register receipt)</b> &amp; submission of Bank Guarantee towards Performance (As called for in Sl. No. 17) <b>within 90 days</b> &amp; receipt of complete documents as per PO.</p> <p><b>Offers with payment Terms such as Cash against Delivery / advance payment / payment through Bank against dispatch documents will be summarily rejected</b></p>                                           |                              |

**ANNEXURE - C1**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Indigenous Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No. | DESCRIPTION                                                                                                                                                                             | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VENDOR (SELLER) CONFIRMATION |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 10      | PAYMENT TERM FOR SUPPLY .                                                                                                                                                               | <p><u>In case of Registered MSE vendors.</u><br/> 100% payment will be against <b>Receipt of Material at Stores (DB i.e Day Book Register receipt)</b> &amp; submission of Bank Guarantee towards Performance (As called for in Sl. No. 17) <b>within 45 days</b> &amp; receipt of complete documents as per PO.</p> <p><b>NOTE: Please confirm your status in case of MSE with relevant proof.</b></p> <p><b>For MSE Registration, you have to submit the Notarized copy of MSE certificate with Original CA certificate &amp; Udyog Aadhaar Certificate with date of filing.</b></p> <p><b>Offers with payment Terms such as Cash against Delivery / advance payment / payment through Bank against dispatch documents will be summarily rejected</b></p>                                                                                                                                 |                              |
| 11      | DELIVERY PERIOD FOR THE SUPPLY                                                                                                                                                          | <p>Please confirm the supply completion on or before <b>31.01.2020 or 4 Months</b> from the date of Manufacturing clearance, which ever is Later.</p> <p>Vendor to submit all drawings/documents within 2 weeks from the date of purchase order and resubmit the drawings/documents within 1 week incorporating all the comments.</p> <p>In case there are delays of submission of drawings/documents beyond 2 weeks of order or 1 week of comments, that much days of delay would be reduced from delivery period.</p> <p>Vendor can also quote improved delivery date if any or otherwise, please clearly indicate the delivery period in weeks / months from the date of Manufacturing clearance.</p> <p>NOTE: Delivery period shall be reckoned till receipt of materials at our BHEL BAP RANIPET STORES. For LD Purpose, Date of site receipt of material will only be considered.</p> |                              |
| 12      | LIQUIDATED DAMAGES (LD) - Supply Portion                                                                                                                                                | Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages and not by way of penalty, a sum equivalent to half (½) percent of the Undelivered Portion price per week or part thereof, subject to a maximum of ten (10) percent of the total contract price including GST & freight, if the Seller/ Contractor fails to deliver any part of the ordered stores within the period stipulated in the Order/ Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |
| 13      | OFFER VALIDITY                                                                                                                                                                          | Please confirm Offer Validity for a minimum period of 60 days from the date of price bid opening.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
| 14      | INSPECTION                                                                                                                                                                              | Please confirm for 'Inspection' of all the Items by BHEL Engineers / BHEL Authorized Engineer and Customer / Consultant Engineer either jointly or individually before the dispatch of the item at vendor works as per approved QAP. Please note that no payment will be made by BHEL towards inspection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |
| 15      | TEST CERTIFICATE (TC)                                                                                                                                                                   | Please confirm that required TC will be provided at 'No Extra Cost'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |
| 16      | GUARANTEE CERTIFICATE (GC) - Supply Portion.                                                                                                                                            | Please confirm furnishing of Guarantee certificate in BHEL format for 12 months from the date of commissioning or 18 months from the date of last despatch whichever is earlier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |
| 17      | <b>Contract Execution Bank Guarantee (CEBG).</b><br>Ple Ref: ANNEXURE –A GENERAL TERMS & CONDITIONS (FOR GUIDANCE TO THE SUPPLIERS) Under Clause -J] Contract Execution Bank Guarantee: | To demonstrate the fidelity of the successful bidder, in executing the Contract, on receipt of the Letter of Intent / Purchase Order, the Supplier shall arrange to provide a contract execution bank guarantee (CEBG).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
| 18      | BANK GUARANTEE (BG) TOWARDS Supply Portion (10% OF ORDER VALUE)                                                                                                                         | BG to be submitted in the format issued by BHEL.<br>BG for 10% of the Total PO Value. Validity of the Bank Guarantee shall be for the entire Guarantee period. Initially, it should be at least 18 months, later extended to cover the entire guarantee period, two months before its expiry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
| 19      | ERECTION MANUAL (INSTALLATION INSTRUCTIONS)                                                                                                                                             | Please confirm for providing of 'comprehensive Erection Manual covering the entire supply which include bought-outs' 6 sets in Hard copy & one CD form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |

**ANNEXURE - C1**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Indigenous Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No. | DESCRIPTION                                                                                                                                                                                                        | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                              | VENDOR (SELLER) CONFIRMATION |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 20      | O & M MANUAL                                                                                                                                                                                                       | Please confirm for providing of 'comprehensive O&M Manual covering the entire System' 6 sets in Hard copy & one CD form.                                                                                                                                                                                                                                                                                                                                  |                              |
| 21A     | REVERSE AUCTION                                                                                                                                                                                                    | Please see the Clause in the main enquiry regarding Reverse Auction (RA). RA will be conducted through our Service Provider. Vendor to confirm acceptance.                                                                                                                                                                                                                                                                                                |                              |
| 21B     | REVERSE AUCTION                                                                                                                                                                                                    | Please note that in case BHEL decides not to conduct RA, the sealed price bids along with the impact price bids arising out of techno-commercial discussions already available with BHEL only will be opened. Please note that no impact price due to non-conductance of RA will be accepted. Vendor to confirm acceptance.                                                                                                                               |                              |
| 22      | RISK PURCHASE CLAUSE<br>(CLAUSE No. 6 of General Terms and Conditions for Indigenous offer)                                                                                                                        | BHEL's Standard Risk Purchase clause will be applicable. Please confirm.                                                                                                                                                                                                                                                                                                                                                                                  |                              |
| 23      | ZERO DATE<br>(CONTRACT EFFECTIVE DATE)                                                                                                                                                                             | Contract Effective date starts from Manufacturing Clearance subject to Documents submission clause.<br>Please confirm for 'Date of Manufacturing Clearance'.                                                                                                                                                                                                                                                                                              |                              |
| 24      | Loading Criteria                                                                                                                                                                                                   | Please note that no Commercial deviation is acceptable to BHEL. In case any deviation is taken in any of the commercial terms such as PAYMENT TERMS, LD, PBG, etc., where in we have specified the days, percentages etc., then loading will be done to the extent of the short fall with respect to the upper Limit specified for evaluation.<br>In respect of LD offers which do not accept for LD Clause would be summarily rejected - Please Confirm. |                              |
| 25      | NEGOTIATION                                                                                                                                                                                                        | In the event of negotiation if any, please confirm participation only by supplier's representative and not by their Agent which include indian Agent in the case of Foreign Offer.                                                                                                                                                                                                                                                                        |                              |
| 26      | OTHER DOCUMENTS FOR APPROVAL (BBU)                                                                                                                                                                                 | In the event of order vendor should confirm the submission of BBU for the complete system supply with break up for each line item as well as quantities with value (If Applicable)                                                                                                                                                                                                                                                                        |                              |
| 27      | PLEASE PROVIDE THE STATUTORY DETAILS<br>(Submit a copy of PAN, if not submitted already)                                                                                                                           | GST Regn. Number                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |
|         |                                                                                                                                                                                                                    | HSN NO.: HARMONIZED SYSTEM OF NOMENCLATURE UNDER GST FOR THE OFFERED ITEM                                                                                                                                                                                                                                                                                                                                                                                 |                              |
|         |                                                                                                                                                                                                                    | PAN No. :                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |
| 28      | CONTACT PERSON'S ON <b>TECHNICAL DETAILS</b> FOR CORRESPONDENCE                                                                                                                                                    | Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
|         |                                                                                                                                                                                                                    | Designation:                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
|         |                                                                                                                                                                                                                    | Phone No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
|         |                                                                                                                                                                                                                    | Mobile No.:                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
|         |                                                                                                                                                                                                                    | Fax No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
|         |                                                                                                                                                                                                                    | E-mail ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
| 29      | CONTACT PERSON'S ON <b>COMMERCIAL DETAILS</b> FOR CORRESPONDENCE                                                                                                                                                   | Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
|         |                                                                                                                                                                                                                    | Designation:                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
|         |                                                                                                                                                                                                                    | Phone No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
|         |                                                                                                                                                                                                                    | Mobile No.:                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
|         |                                                                                                                                                                                                                    | Fax No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
|         |                                                                                                                                                                                                                    | E-mail ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
| 30      | <b>BHEL will not take cognizance of commercial terms mentioned by the bidder any where else.</b><br><br><b>Commercial terms and conditions indicated in this Annexure - A will only be applicable and binding.</b> | <b>Acceptance Required</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |

Signature, Seal & Date of offerer on all the pages.

**ANNEXURE - C2**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Import Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No. | DESCRIPTION                                       | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VENDOR (SELLER) CONFIRMATION |
|---------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| I       | <b>Technical</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |
| 01      | SCOPE OF SUPPLY                                   | <p>Please confirm the Scope of Supply of <b>"SWRO &amp; BWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES, SPECIAL TOOLS FOR MEMBRANE ASSEMBLY / DISASSEMBLY &amp; COMMISSIONING SPARES"</b> as per Specification No.</p> <p>1) TECHNICAL SPECIFICATION FOR SWRO &amp; BWRO PRESSURE VESSELS - ROS:6252, REV:00 DATED 22.06.2019,<br/> 2) SWRO PR VESSEL VARIANT - ANNEXURE A,<br/> 3) BWRO PR VESSEL VARIANT - ANNEXURE B,<br/> 4) PRE-QUALIFICATION REQUIREMENT - FIRST PASS RO (SWRO) MEMBRANE PRESSURE VESSELS - RWT90775:SWROPV REV 00 DATED 08.07.2019</p> <p>submit the same after necessary Filling, signing &amp; returning a copy of the same.</p> |                              |
| 02      | SPECIFICATION                                     | Please confirm Clause wise / Point wise "IN TOTO" for all specifications and submit along with offer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 03      | DATA SHEETS / DRAWINGS                            | Filled Data Sheets and Drawings are to be submitted along with offer. (if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 04      | QUALITY ASSURANCE PLAN (QAP)                      | <p>Please Confirm to submit the QAP / RQP / MQP as per the Customer Sample Format for review and approval by customer within 2 Weeks from the date of Letter of Award (LOA).</p> <p>Please Refer <b>Annexure - Q</b> and provide your acceptance.</p>                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 05      | SPECIFICATION DEVIATION DISPOSITION REPORT (SDDR) | Attached SDDR to be filled & submit along with offer. (Even, If NO deviation is taken, NIL report to be submitted).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |
| 06      | COMMISSIONING SPARES                              | <p>Please confirm that the "COMMISSIONING SPARES WILL BE SUPPLIED ALONG WITH MAIN SUPPLY FOR TROUBLE FREE COMMISSIONING.</p> <p>Commissioning spares shall be packed separately with detailed packing list (items should not be packed along with main supply items)</p> <p>Any other spare(s) required during commissioning but not indicated in the list, should also be supplied at your cost.</p>                                                                                                                                                                                                                                                      |                              |
| 07      | MANDATORY SPARES                                  | <p>Please confirm that the " Supply of "MANDATORY SPARES" as per the Technical specification.</p> <p>Mandatory Spares shall be packed separately with detailed packing list (items should not be packed along with main supply items)</p> <p>Mandatory Spares List and the individual price should be indicated.</p> <p>The Bidder should also indicate if any spare(s) other than those indicated in the spec is/are required.</p>                                                                                                                                                                                                                        |                              |
| 08      | PRE-QUALIFICATION REQUIREMENT                     | Vendor should submit the Filled QR Annexure & Necessary supporting documents proof for meeting the QR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
| II      | <b>Commercial Terms &amp; Conditions</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |
| 01      | PRICE                                             | Please confirm 'Firm Price' till completion of order                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |
| 02      | UNPRICED BID (PART-1)                             | <p>Please confirm submission of 'Unpriced bid' in the price bid format attached duly signed.</p> <p>SCANNED COPY of FILLED &amp; SIGNED COPY OF 'Price Bid' format attached by filling all informations by writing 'Quoted' as the case may be in the 'Rate' and 'Value' columns to be submitted through E-Procurement System.</p>                                                                                                                                                                                                                                                                                                                         |                              |
| 03      | PRICED BID (PART-2)                               | <p>Please confirm submission of 'Priced bid' in the price bid format attached duly signed.</p> <p>SCANNED COPY of FILLED &amp; SIGNED COPY OF 'Price Bid' format attached by filling all informations by writing the value as the case may be in the 'Rate' and 'Value' columns in a separate attachment to be submitted through E-Procurement System.</p> <p><b>Price bid opening will be considered after the Techno-Commercial evaluation &amp; further final approval from the customer:</b><br/> <b>TANGEDCO UDANGUDI STPP PROJECT</b></p>                                                                                                            |                              |

**ANNEXURE - C2**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Import Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No. | DESCRIPTION                                                           | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                    | VENDOR (SELLER) CONFIRMATION |
|---------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 04A     | CONSIGNEE DETAILS                                                     | AGM /STORES<br>M/s Bharat Heavy Electricals Limited<br>Boiler Auxiliaries Plant,<br>I.G Industrial Complex,<br>Ranipet-632406<br>Tamilnadu<br>India                                                                                                                                                                                                                                                                                                             |                              |
| 04B     | NOTIFYING ADDRESS                                                     | Manager / Material Services,<br>Regional Operation Division<br>M/s. Bharat Electricals Limited<br>690, 6th Floor EVR Periyar Building<br>Annasalai, Nandanam<br>Chennai-600 035<br>Tamilnadu<br>India                                                                                                                                                                                                                                                           |                              |
| 05      | MANUFACTURER'S NAME                                                   | Please furnish Full Address, Contact Person, Phone, Fax & Email etc.                                                                                                                                                                                                                                                                                                                                                                                            |                              |
| 06      | COUNTRY OF ORIGIN                                                     | Please indicate the Country of Origin of the Equipment                                                                                                                                                                                                                                                                                                                                                                                                          |                              |
| 07      | PACKING & FORWARDING                                                  | Please confirm inclusion of Packing & Forwarding Charges (FOB Charges) to the nearest Public Sea / Air Port if any in the quoted price. Stuffing Charges shall be in Vendor's account only.                                                                                                                                                                                                                                                                     |                              |
| 08      | CUSTOMS DUTY IN %<br>(For Supply)                                     | Please indicate Applicable or Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
|         |                                                                       | If applicable, please indicate the exact percentage applicable as on the date of submission of offer and also indicate whether the same is payable extra by BHEL or not.                                                                                                                                                                                                                                                                                        |                              |
|         |                                                                       | 1) BHEL will provide the necessary exemption certificate from competent authorities and hence CD is not applicable. (Vendor to confirm availing of CD exemption). In order to get CD Exemption Certificate from the authority concerned by BHEL to match the delivery period, vendor has to agree to provide their Principle if any in their offer itself.<br><br>2) In case BHEL is not able to provide the CD Exemption certificate, CD will be paid by BHEL. |                              |
| 09      | DELIVERY TERM & PRICE BASIS                                           | CFR Chennai Sea Port Basis only and Insurance in BHEL's scope.                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
| 10      | FREIGHT CHARGES FROM FOREIGN SEA / AIR PORT TO CHENNAI SEA / AIR PORT | Please confirm provision of freight charges separately in the offer from Foreign Sea / Air Port to CHENNAI Sea / Air Port.                                                                                                                                                                                                                                                                                                                                      |                              |
| 11      | ALTERNATE DELIVERY TERM & PRICE BASIS                                 | Please confirm submission of alternate offer on FOB Sea / Air Port basis.                                                                                                                                                                                                                                                                                                                                                                                       |                              |
| 12      | PORT OF SHIPMENT / AIRLIFTING                                         | Please confirm and specify the nearest public Sea / Air Port in the Supplier's country.                                                                                                                                                                                                                                                                                                                                                                         |                              |
| 13      | TRANSHIPMENT (IF ANY) NOT PREFERRED                                   | Please note that Transshipment is not preferred by BHEL.                                                                                                                                                                                                                                                                                                                                                                                                        |                              |
| 14      | APPROX. WEIGHT & DIMENSION OF THE CONSIGNMENT                         | Please indicate the consignment details clearly.                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
| 15      | ADDRESS OF THE INDIAN AGENT / REPRESENTATIVE                          | Please submit Agency Agreement and Mill's Letter of Authority & Please clearly indicate the Indian Agent's details                                                                                                                                                                                                                                                                                                                                              |                              |
| 16      | AGENCY COMMISSION, IF ANY IN%                                         | Please confirm whether the agency commission is included in the quoted price. Else, indicate the agency commission, which will be paid only in Indian Rupees calculated at the rate of exchange prevailing on the date of price bid opening. This is payable on satisfactory completion of the contract                                                                                                                                                         |                              |
| 17      | BANKER'S NAME & ADDRESS FOR PAYMENT PURPOSE                           | LC will be opened through any one of the Indian Bank and advised by their Correspondent Bank in Seller Country                                                                                                                                                                                                                                                                                                                                                  |                              |
| 18      | SHIPPING                                                              | Consignment to be shipped through Containers, Stuffing Charges if any is to Supplier's Account only. Please indicate the Size & Number of Containers involved.<br><br>Also confirm referer container / ordinary container.                                                                                                                                                                                                                                      |                              |

**ANNEXURE - C2**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Import Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NTT\_48400)**

| Sl. No. | DESCRIPTION                                                                                                                                                                         | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | VENDOR (SELLER) CONFIRMATION |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 19      | PAYMENT TERM FOR SUPPLY                                                                                                                                                             | <p>100% Direct payment through EFT within 120 days from receipt and acceptance of materials at our stores. Incase LC is insisted, it shall be 100% Irrevocable Unconfirmed Letter of Credit with 120 days usance period with all charges within India to BHEL account and outside India to Supplier's account.</p> <p>Whenever there is an Indian Agent to represent a Supplier, it is mandatory to give the details of services to be rendered by Indian Agent and / or the details of agreement between Supplier and Agent. Supplier to indicate the Agency Commission payable. Indian Agency Commission will be paid only in Indian Rupees, calculated at the rate of exchange prevailing on the date of price bid opening. This is payable on satisfactory completion of the contract. Agency agreement copy shall be submitted along with Annexure-C without fail.</p> <p><b>Note: In order to maintain sanctity of the tender system, it is mandatory that one Agent cannot represent two Suppliers or quote on their behalf in a particular tender enquiry. If any Agent represents more than one Suppliers all such offers will be rejected.</b></p> |                              |
| 20      | DELIVERY PERIOD FOR THE SUPPLY                                                                                                                                                      | <p>Please confirm the supply completion on or before <b>31.01.2020 or 4 Months</b> from the date of Manufacturing clearance, which ever is Later.</p> <p>Vendor to submit all drawings/documents within 2 weeks from the date of purchase order and resubmit the drawings/documents within 1 week incorporating all the comments.</p> <p>In case there are delays of submission of drawings/documents beyond 2 weeks of order or 1 week of comments, that much days of delay would be reduced from delivery period.</p> <p>Vendor can also quote improved delivery date if any or otherwise, please clearly indicate the delivery period in weeks / months from the date of Manufacturing clearance.</p> <p>NOTE: Delivery period shall be reckoned till receipt of materials at Chennai Sea Port. For LD Purpose, Date of receipt of material at Chennai sea port will only be considered.</p>                                                                                                                                                                                                                                                              |                              |
| 21      | LIQUIDATED DAMAGES (LD) - Supply Portion                                                                                                                                            | Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages and not by way of penalty, a sum equivalent to half (½) percent of the Undelivered Portion price per week or part thereof, subject to a maximum of ten (10) percent of the total contract price including GST & freight, if the Seller/ Contractor fails to deliver any part of the ordered stores within the period stipulated in the Order/ Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 22      | OFFER VALIDITY                                                                                                                                                                      | Please confirm Offer Validity for a minimum period of 60 days from the date of price bid opening.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |
| 23      | INSPECTION                                                                                                                                                                          | Please confirm for 'Inspection' of all the Items by BHEL Engineers / BHEL Authorized Engineer and Customer / Consultant Engineer either jointly or individually before the dispatch of the item at vendor works as per approved QAP. Please note that no payment will be made by BHEL towards inspection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 24      | TEST CERTIFICATE (TC)                                                                                                                                                               | Please confirm that required TC will be provided at 'No Extra Cost'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| 25      | GUARANTEE CERTIFICATE (GC) - Supply Portion.                                                                                                                                        | Please confirm furnishing of Guarantee certificate in BHEL format for 12 months from the date of commissioning or 18 months from the date of last despatch whichever is earlier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| 26      | Contract Execution Bank Guarantee (CEBG).<br>Ple Ref: ANNEXURE –A GENERAL TERMS & CONDITIONS (FOR GUIDANCE TO THE SUPPLIERS) Under Clause -J]<br>Contract Execution Bank Guarantee: | To demonstrate the fidelity of the successful bidder, in executing the Contract, on receipt of the Letter of Intent / Purchase Order, the Supplier shall arrange to provide a contract execution bank guarantee (CEBG).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 27      | BANK GUARANTEE (BG) TOWARDS Supply Portion (10% OF ORDER VALUE)                                                                                                                     | BG to be submitted in the format issued by BHEL.<br>BG for 10% of the Total PO Value. Validity of the Bank Guarantee shall be for the entire Guarantee period. Initially, it should be at least 18 months, later extended to cover the entire guarantee period, three months before its expiry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
| 28      | ERECTION MANUAL (INSTALLATION INSTRUCTIONS)                                                                                                                                         | Please confirm for providing of 'comprehensive Erection Manual covering the entire supply which include bought-outs' 6 sets in Hard copy & one CD form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 29      | O & M MANUAL                                                                                                                                                                        | Please confirm for providing of 'comprehensive O&M Manual covering the entire System' 6 sets in Hard copy & one CD form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |

**ANNEXURE - C2**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**Commercial Terms and Conditions - For Import Supply**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| Sl. No.                                             | DESCRIPTION                                                                                                                                                                                                                                               | BHEL (PURCHASER) REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                  | VENDOR (SELLER) CONFIRMATION |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 30A                                                 | REVERSE AUCTION                                                                                                                                                                                                                                           | Please see the Clause in the main enquiry regarding Reverse Auction (RA). RA will be conducted through our Service Provider. Vendor to confirm acceptance.                                                                                                                                                                                                                                                                                                    |                              |
| 30B                                                 | REVERSE AUCTION                                                                                                                                                                                                                                           | Please note that in case BHEL decides not to conduct RA, the sealed price bids along with the impact price bids arising out of techno-commercial discussions already available with BHEL only will be opened. Please note that no impact price due to non-conductance of RA will be accepted. Vendor to confirm acceptance.                                                                                                                                   |                              |
| 31                                                  | RISK PURCHASE CLAUSE<br>( <b>CLAUSE No. 6 of General Terms and Conditions for Indigenous offer</b> )                                                                                                                                                      | BHEL's Standard Risk Purchase clause will be applicable. Please confirm.                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| 32                                                  | ZERO DATE<br>(CONTRACT EFFECTIVE DATE)                                                                                                                                                                                                                    | Contract Effective date starts from Manufacturing Clearance subject to Documents submission clause.<br>Please confirm for 'Date of Manufacturing Clearance'.                                                                                                                                                                                                                                                                                                  |                              |
| 33                                                  | Loading Criteria                                                                                                                                                                                                                                          | Please note that no Commercial deviation is acceptable to BHEL. In case any deviation is taken in any of the commercial terms such as PAYMENT TERMS, LD, PBG, etc., where in we have specified the days, percentages etc., then loading will be done to the extent of the short fall with respect to the upper Limit specified for evaluation.<br><br>In respect of LD offers which do not accept for LD Clause would be summarily rejected - Please Confirm. |                              |
| 34                                                  | NEGOTIATION                                                                                                                                                                                                                                               | In the event of negotiation if any, please confirm participation only by supplier's representative and not by their Agent which include indian Agent in the case of Foreign Offer.                                                                                                                                                                                                                                                                            |                              |
| 35                                                  | OTHER DOCUMENTS FOR APPROVAL (BBU)                                                                                                                                                                                                                        | In the event of order vendor should confirm the submission of BBU for the complete system supply with break up for each line item as well as quantities with value.                                                                                                                                                                                                                                                                                           |                              |
| 36                                                  | CONTACT PERSON'S ON <b>TECHNICAL DETAILS</b> FOR CORRESPONDENCE                                                                                                                                                                                           | Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
|                                                     |                                                                                                                                                                                                                                                           | Designation:                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
|                                                     |                                                                                                                                                                                                                                                           | Phone No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
|                                                     |                                                                                                                                                                                                                                                           | Mobile No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |
|                                                     |                                                                                                                                                                                                                                                           | Fax No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
|                                                     |                                                                                                                                                                                                                                                           | E-mail ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 37                                                  | CONTACT PERSON'S ON <b>COMMERCIAL DETAILS</b> FOR CORRESPONDENCE                                                                                                                                                                                          | Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
|                                                     |                                                                                                                                                                                                                                                           | Designation:                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
|                                                     |                                                                                                                                                                                                                                                           | Phone No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
|                                                     |                                                                                                                                                                                                                                                           | Mobile No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |
|                                                     |                                                                                                                                                                                                                                                           | Fax No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
|                                                     |                                                                                                                                                                                                                                                           | E-mail ID:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 38                                                  | 1. All the imported Items are to be supplied in container/s only and sufficient number of days (Minimum 20-25 Days) to be considered for return of the container after unloading at site.<br><br>2. BHEL expects Import Supply in Foreign Currency quote. | <b>Acceptance Required</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 40                                                  | <b>BHEL will not take cognizance of commercial terms mentioned by the bidder any where else.</b><br><br><b>Commercial terms and conditions indicated in this Annexure - A will only be applicable and binding.</b>                                        | <b>Acceptance Required</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| Signature, Seal & Date of offerer on all the pages. |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |

**ANNEXURE - D**  
**BHEL : BAP : RANIPET**  
**PURCHASE - WATER SYSTEM**  
**PRICE OFFER FORMAT**  
**UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)**  
**SWRO & BWRO PRESSURE VESSELS**  
**FOR TANGEDCO UDANGUDI STPP PROJECT**  
**Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT\_48400)**

| PRICE OFFER - SUPPLY |                                                                                                                                                                                                                                                                    |      |       |                    |               |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------------------|---------------|
| Enquiry Sl. No.      | Description                                                                                                                                                                                                                                                        | Unit | Qty.  | Rate / Unit in Rs. | Amount in Rs. |
| 001                  | RWT907750001<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES:<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT - I) | ST   | 88.00 |                    |               |
| 002                  | RWT907750002<br>SPECIAL TOOLS<br>FOR SWRO MEMBRANE ASSEMBLY / DISASSEMBLY,<br>REMOVAL OF END CAP ASSEMBLY, MEMBRANE PERMEATE PROBING ETC<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                  | ST   | 1.00  |                    |               |
| 003                  | RWT907750003<br>SWRO COMMISSIONING SPARES - ADAPTER SEAL 'O RINGS'<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                                                                                        | ST   | 50.00 |                    |               |
| 004                  | RWT907750004<br>SWRO COMMISSIONING SPARES- END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.201.                                                                                                                                | ST   | 5.00  |                    |               |
| 005                  | RWT907750005<br>SWRO COMMISSIONING SPARE - THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                     | ST   | 5.00  |                    |               |
| 006                  | RWT907750006<br>SWRO COMMISSIONING SPARE- MEMBRANE SEAL FOR ADAPTOR ('O') RING AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                | ST   | 50.00 |                    |               |
| 007                  | RWT907750007<br>SWRO COMMISSIONING SPARES - HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                      | ST   | 20.00 |                    |               |
| 008                  | RWT907750008<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES<br>ADAPTERS, FEED/ PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE & HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT II)      | ST   | 96.00 |                    |               |

| <p style="text-align: center;"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                               |      |       |                    |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------------------|---------------|
| PRICE OFFER - SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                               |      |       |                    |               |
| Enquiry Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                            | Description                                                                                                                                                                                                                                                   | Unit | Qty.  | Rate / Unit in Rs. | Amount in Rs. |
| 009                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750009<br>BWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES VIZ ;<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019. | ST   | 16.00 |                    |               |
| 010                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750010<br>SPECIAL TOOLS FOR LOADING/REMOVAL OF BWRO MEMBRANE<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                    | ST   | 1.00  |                    |               |
| 011                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750011<br>BWRO COMMISSIONING SPARES :<br>ADAPTOR SEAL 'O' RING<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                  | ST   | 20.00 |                    |               |
| 012                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750012<br>BWRO COMMISSIONING SPARES:<br>END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                        | ST   | 2.00  |                    |               |
| 013                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750013<br>BWRO COMMISSIONING SPARE :<br>THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                             | ST   | 2.00  |                    |               |
| 014                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750014<br>BWRO COMMISSIONING SPARE:<br>MEMBRANE SEAL FOR ADAPTOR (O-RING)<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                       | ST   | 20.00 |                    |               |
| 015                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750015<br>BWRO COMMISSIONING SPARE :<br>HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                               | ST   | 5.00  |                    |               |
| 016                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750016<br>MANDATORY SPARES FOR SWRO PRESSURE VESSEL :<br>'O' RINGS & GASKET OF EACH SIZE & TYPE REQUIRED FOR SWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                              | ST   | 1.00  |                    |               |

| <p align="center"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                       |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------------------|------------------|
| <p align="center"><b>PRICE OFFER - SUPPLY</b></p>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                       |                  |
| Enquiry<br>Sl.<br>No.                                                                                                                                                                                                                                                                                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Qty. | Rate / Unit<br>in Rs. | Amount in<br>Rs. |
| 017                                                                                                                                                                                                                                                                                                                                                                                                           | <i>RWT907750017</i><br>MANDATORY SPARES FOR BWRO PRESSURE<br>VESSEL :<br>'O' RINGS & GASKETS OF EACH SIZE & TYPE<br>REQUIRED FOR BWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                                                                                                                                                                                                                                                                   | ST   | 1.00 |                       |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Total Price (Total of Sl. No. 001 to 017)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                       |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>B) Packing &amp; Forwarding Charges (If Payable Extra by BHEL)_____ %</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |                       |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>C) Freight &amp; Insurance Charges (If Payable Extra by BHEL)_____ %</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                       |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D) Applicable percentage of CGST/SGST/UTGST/IGST - _____ %<br/>(whichever is applicable) for A+B+C+D<br/>HSN CODE : _____</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                       |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>E) Total Landed Cost (Sum of A+B+C+D+E)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |                       |                  |
| <b>IMPORTANT NOTES</b>                                                                                                                                                                                                                                                                                                                                                                                        | 1) All the Items are to be inspected by BHEL Engineers / BHEL Authorized Engineer and Customer / Consultant Engineer either jointly or individually before the despatch of the item at vendor works as per approved QAP.<br>2) All Items will be compared on SET Basis & Order will be placed on a Single vendor who is the lowest (L1) on set basis.<br>3) Please confirm the supply completion with in <b>31.01.2020</b> or <b>4 MONTHS</b> from the date of CAT-I Approval / Manufacturing clearance, which ever is Later.<br>4) Vendor can also quote improved delivery date if any from the date of Clear PO, |      |      |                       |                  |
| <p align="right"><b>Signature &amp; Seal of Offerer</b></p>                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                       |                  |

| <p align="center"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                    |             |             |                                             |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------------------------------------|-------------------------------------------|
| <b>PRICE OFFERS FOR IMPORT PORTION - Delivery term FOB Nearest Public sea port</b>                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |             |             |                                             |                                           |
| <b>Enquiry<br/>Sl.<br/>No.</b>                                                                                                                                                                                                                                                                                                                                                                                | <b>Description</b>                                                                                                                                                                                                                                                 | <b>Unit</b> | <b>Qty.</b> | <b>Rate<br/>in<br/>Foreign<br/>Currency</b> | <b>Amount<br/>in<br/>Foreign Currency</b> |
| 001                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750001<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES:<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT - I) | ST          | 88.00       |                                             |                                           |
| 002                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750002<br>SPECIAL TOOLS<br>FOR SWRO MEMBRANE ASSEMBLY / DISASSEMBLY,<br>REMOVAL OF END CAP ASSEMBLY, MEMBRANE PERMEATE PROBING ETC<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                  | ST          | 1.00        |                                             |                                           |
| 003                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750003<br>SWRO COMMISSIONING SPARES - ADAPTER SEAL 'O RINGS'<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                                                                                        | ST          | 50.00       |                                             |                                           |
| 004                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750004<br>SWRO COMMISSIONING SPARES- END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.201.                                                                                                                                | ST          | 5.00        |                                             |                                           |
| 005                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750005<br>SWRO COMMISSIONING SPARE - THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                     | ST          | 5.00        |                                             |                                           |
| 006                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750006<br>SWRO COMMISSIONING SPARE- MEMBRANE SEAL FOR ADAPTOR ('O') RING AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                | ST          | 50.00       |                                             |                                           |
| 007                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750007<br>SWRO COMMISSIONING SPARES - HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                      | ST          | 20.00       |                                             |                                           |
| 008                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750008<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES<br>ADAPTERS, FEED/ PERMEATE / CONCERNTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE & HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT II)     | ST          | 96.00       |                                             |                                           |

| <p align="center"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                  |      |       |                          |                            |
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| PRICE OFFERS FOR IMPORT PORTION - Delivery term FOB Nearest Public sea port                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                  |      |       |                          |                            |
| Enquiry Sl. No.                                                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                                                                                                                                      | Unit | Qty.  | Rate in Foreign Currency | Amount in Foreign Currency |
| 009                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750009<br>BWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES VIZ ;<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019. | ST   | 16.00 |                          |                            |
| 010                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750010<br>SPECIAL TOOLS FOR LOADING/REMOVAL OF BWRO MEMBRANE<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                    | ST   | 1.00  |                          |                            |
| 011                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750011<br>BWRO COMMISSIONING SPARES :<br>ADAPTOR SEAL 'O' RING<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                  | ST   | 20.00 |                          |                            |
| 012                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750012<br>BWRO COMMISSIONING SPARES:<br>END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                        | ST   | 2.00  |                          |                            |
| 013                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750013<br>BWRO COMMISSIONING SPARE :<br>THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                             | ST   | 2.00  |                          |                            |
| 014                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750014<br>BWRO COMMISSIONING SPARE:<br>MEMBRANE SEAL FOR ADAPTOR (O-RING)<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                       | ST   | 20.00 |                          |                            |
| 015                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750015<br>BWRO COMMISSIONING SPARE :<br>HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                               | ST   | 5.00  |                          |                            |
| 016                                                                                                                                                                                                                                                                                                                                                                                                           | RWT907750016<br>MANDATORY SPARES FOR SWRO PRESSURE VESSEL :<br>'O' RINGS & GASKET OF EACH SIZE & TYPE REQUIRED FOR SWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019.                                              | ST   | 1.00  |                          |                            |

| <p align="center"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |
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| <p align="center"><b>PRICE OFFERS FOR IMPORT PORTION - Delivery term FOB Nearest Public sea port</b></p>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |
| Enquiry<br>Sl.<br>No.                                                                                                                                                                                                                                                                                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Qty. | Rate<br>in<br>Foreign<br>Currency | Amount<br>in<br>Foreign Currency |
| 017                                                                                                                                                                                                                                                                                                                                                                                                           | <i>RWT907750017</i><br>MANDATORY SPARES FOR BWRO PRESSURE<br>VESSEL :<br>'O' RINGS & GASKETS OF EACH SIZE & TYPE<br>REQUIRED FOR BWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                                                                                                                                                                                                                                                                   | ST   | 1.00 |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Total Price (Total of Sl. No. 001 to 017)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>B) Packing &amp; Forwarding Charges (If Payable Extra by BHEL)_____%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>C) Freight &amp; Insurance Charges (If Payable Extra by BHEL)_____%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D) Applicable percentage of CGST/SGST/UTGST/IGST - _____%</b><br><b>(whichever is applicable) for A+B+C+D</b><br><b>HSN CODE : _____</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>E) Total Landed Cost (Sum of A+B+C+D+E)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |                                   |                                  |
| <b>IMPORTANT NOTES</b>                                                                                                                                                                                                                                                                                                                                                                                        | 1) All the Items are to be inspected by BHEL Engineers / BHEL Authorized Engineer and Customer / Consultant Engineer either jointly or individually before the despatch of the item at vendor works as per approved QAP.<br>2) All Items will be compared on SET Basis & Order will be placed on a Single vendor who is the lowest (L1) on set basis.<br>3) Please confirm the supply completion with in <b>31.01.2020</b> or <b>4 MONTHS</b> from the date of CAT-I Approval / Manufacturing clearance, which ever is Later.<br>4) Vendor can also quote improved delivery date if any from the date of Clear PO, |      |      |                                   |                                  |
| <p align="right"><b>Signature &amp; Seal of Offerer</b></p>                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |

| <p style="text-align: center;"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                    |      |       |                          |                            |
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| PRICE OFFERS FOR IMPORT PORTION - Delivery term CFR <b>CHENNAI SEA PORT</b>                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                    |      |       |                          |                            |
| Enquiry Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                            | Description                                                                                                                                                                                                                                                        | Unit | Qty.  | Rate in Foreign Currency | Amount in Foreign Currency |
| 001                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750001<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES:<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT - I) | ST   | 88.00 |                          |                            |
| 002                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750002<br>SPECIAL TOOLS<br>FOR SWRO MEMBRANE ASSEMBLY / DISASSEMBLY,<br>REMOVAL OF END CAP ASSEMBLY, MEMBRANE PERMEATE PROBING ETC<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                  | ST   | 1.00  |                          |                            |
| 003                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750003<br>SWRO COMMISSIONING SPARES - ADAPTER SEAL 'O RINGS'<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                                                                                        | ST   | 50.00 |                          |                            |
| 004                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750004<br>SWRO COMMISSIONING SPARES- END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019.                                                                                                                               | ST   | 5.00  |                          |                            |
| 005                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750005<br>SWRO COMMISSIONING SPARE - THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                     | ST   | 5.00  |                          |                            |
| 006                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750006<br>SWRO COMMISSIONING SPARE- MEMBRANE SEAL FOR ADAPTOR ('O') RING AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                | ST   | 50.00 |                          |                            |
| 007                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750007<br>SWRO COMMISSIONING SPARES - HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                      | ST   | 20.00 |                          |                            |
| 008                                                                                                                                                                                                                                                                                                                                                                                                                        | RWT907750008<br>SWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES<br>ADAPTERS, FEED/ PERMEATE / CONCERNTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE & HOLDING STRIPS AS PER TECHNICAL SPECIFICATION NO. ROS:6252, REV:00 DATED 22.06.2019 (VARIANT II)     | ST   | 96.00 |                          |                            |

| <b>ANNEXURE - D</b><br><b>BHEL : BAP : RANIPET</b><br><b>PURCHASE - WATER SYSTEM</b><br><b>PRICE OFFER FORMAT</b><br><b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br><b>SWRO &amp; BWRO PRESSURE VESSELS</b><br><b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br><b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> |                                                                                                                                                                                                                                                                  |             |             |                                             |                                           |
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| <b>PRICE OFFERS FOR IMPORT PORTION - Delivery term CFR CHENNAI SEA PORT)</b>                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                  |             |             |                                             |                                           |
| <b>Enquiry<br/>Sl.<br/>No.</b>                                                                                                                                                                                                                                                                                                                                          | <b>Description</b>                                                                                                                                                                                                                                               | <b>Unit</b> | <b>Qty.</b> | <b>Rate<br/>in<br/>Foreign<br/>Currency</b> | <b>Amount<br/>in<br/>Foreign Currency</b> |
| 009                                                                                                                                                                                                                                                                                                                                                                     | RWT907750009<br>BWRO PRESSURE VESSELS WITH COMPLETE ACCESSORIES VIZ ;<br>ADAPTERS, FEED / PERMEATE / CONCENTRATE PORTS, COMPLETE END CAP ASSEMBLY, SUPPORT SADDLE AND HOLDING STRIPS<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019. | ST          | 16.00       |                                             |                                           |
| 010                                                                                                                                                                                                                                                                                                                                                                     | RWT907750010<br>SPECIAL TOOLS FOR LOADING/REMOVAL OF BWRO MEMBRANE<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                    | ST          | 1.00        |                                             |                                           |
| 011                                                                                                                                                                                                                                                                                                                                                                     | RWT907750011<br>BWRO COMMISSIONING SPARES :<br>ADAPTOR SEAL 'O' RING<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                  | ST          | 20.00       |                                             |                                           |
| 012                                                                                                                                                                                                                                                                                                                                                                     | RWT907750012<br>BWRO COMMISSIONING SPARES:<br>END CAP ASSEMBLY<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                        | ST          | 2.00        |                                             |                                           |
| 013                                                                                                                                                                                                                                                                                                                                                                     | RWT907750013<br>BWRO COMMISSIONING SPARE :<br>THRUST CONE<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                             | ST          | 2.00        |                                             |                                           |
| 014                                                                                                                                                                                                                                                                                                                                                                     | RWT907750014<br>BWRO COMMISSIONING SPARE:<br>MEMBRANE SEAL FOR ADAPTOR (O-RING)<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                       | ST          | 20.00       |                                             |                                           |
| 015                                                                                                                                                                                                                                                                                                                                                                     | RWT907750015<br>BWRO COMMISSIONING SPARE :<br>HEAD SEAL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                               | ST          | 5.00        |                                             |                                           |
| 016                                                                                                                                                                                                                                                                                                                                                                     | RWT907750016<br>MANDATORY SPARES FOR SWRO PRESSURE VESSEL :<br>'O' RINGS & GASKET OF EACH SIZE & TYPE<br>REQUIRED FOR SWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019.                                           | ST          | 1.00        |                                             |                                           |

| <p align="center"> <b>ANNEXURE - D</b><br/> <b>BHEL : BAP : RANIPET</b><br/> <b>PURCHASE - WATER SYSTEM</b><br/> <b>PRICE OFFER FORMAT</b><br/> <b>UN PRICED OFFER / PRICE OFFER ( Please Tick whichever is applicable)</b><br/> <b>SWRO &amp; BWRO PRESSURE VESSELS</b><br/> <b>FOR TANGEDCO UDANGUDI STPP PROJECT</b><br/> <b>Enquiry No. 7790673E Dated 24/08/2019 Due on: 17/09/2019 (NIT_48400)</b> </p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |
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| <p align="center"><b>PRICE OFFERS FOR IMPORT PORTION - Delivery term CFR CHENNAI SEA PORT)</b></p>                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |
| Enquiry<br>Sl.<br>No.                                                                                                                                                                                                                                                                                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Qty. | Rate<br>in<br>Foreign<br>Currency | Amount<br>in<br>Foreign Currency |
| 017                                                                                                                                                                                                                                                                                                                                                                                                           | <i>RWT907750017</i><br>MANDATORY SPARES FOR BWRO PRESSURE<br>VESSEL :<br>'O' RINGS & GASKETS OF EACH SIZE & TYPE<br>REQUIRED FOR BWRO PRESSURE VESSEL<br>AS PER TECHNICAL SPECIFICATION NO.<br>ROS:6252, REV:00 DATED 22.06.2019                                                                                                                                                                                                                                                                                                                                                                                   | ST   | 1.00 |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Total Price (Total of Sl. No. 001 to 017)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>B) Packing &amp; Forwarding Charges (If Payable Extra by BHEL)_____%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>C) Freight &amp; Insurance Charges (If Payable Extra by BHEL)_____%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>D) Applicable percentage of CGST/SGST/UTGST/IGST - _____%</b><br><b>(whichever is applicable) for A+B+C+D</b><br><b>HSN CODE : _____</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                               | <b>E) Total Landed Cost (Sum of A+B+C+D+E)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |                                   |                                  |
| <b>IMPORTANT NOTES</b>                                                                                                                                                                                                                                                                                                                                                                                        | 1) All the Items are to be inspected by BHEL Engineers / BHEL Authorized Engineer and Customer / Consultant Engineer either jointly or individually before the despatch of the item at vendor works as per approved QAP.<br>2) All Items will be compared on SET Basis & Order will be placed on a Single vendor who is the lowest (L1) on set basis.<br>3) Please confirm the supply completion with in <b>31.01.2020</b> or <b>4 MONTHS</b> from the date of CAT-I Approval / Manufacturing clearance, which ever is Later.<br>4) Vendor can also quote improved delivery date if any from the date of Clear PO, |      |      |                                   |                                  |
| <b>Signature &amp; Seal of Offerer</b>                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                                   |                                  |

**BANK GUARANTEE FOR PERFORMANCE SECURITY**

Bank Guarantee No:

Date:

To

NAME

&amp; ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_<sup>1</sup> through its Unit at \_\_\_\_\_ (name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at \_\_\_\_\_<sup>2</sup> hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No \_\_\_\_\_ dated \_\_\_\_\_<sup>3</sup> valued at Rs \_\_\_\_\_<sup>4</sup> (Rupees -----)/FC \_\_\_\_\_ (in words \_\_\_\_\_) for \_\_\_\_\_<sup>5</sup> (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to \_\_\_\_\_ % (\_\_\_\_\_ . Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we, \_\_\_\_\_, (hereinafter referred to as the Bank), having registered/Head office at \_\_\_\_\_ and inter alia a branch at \_\_\_\_\_ being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -- -----<sup>6</sup> (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We the \_\_\_\_\_ bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We, \_\_\_\_\_ BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including \_\_\_\_\_<sup>7</sup> and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_<sup>8</sup> we shall be discharged from all liabilities under this guarantee thereafter.

We, \_\_\_\_\_ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed \_\_\_\_\_<sup>6</sup>
- b) This Guarantee shall be valid up to \_\_\_\_\_<sup>7</sup>
- c) Unless the Bank is served a written claim or demand on or before \_\_\_\_\_<sup>8</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of  
(Name of the Bank)

Dated \_\_\_\_\_ .

Place of Issue \_\_\_\_\_ .

<sup>1</sup> NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> CONTRACT VALUE

<sup>5</sup> PROJECT/SUPPLY DETAILS

<sup>6</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>7</sup> VALIDITY DATE

<sup>8</sup> DATE OF EXPIRY OF CLAIM PERIOD

**Note:**

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

**4. In Case of Bank Guarantees submitted by Foreign Vendors-**

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
  - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
  - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
  - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

## **Online SRF Submission Procedure**

Following are the formalities to be completed by your company for registration purpose.

**NOTE: BEFORE PROCEEDING FOR ONLINE REGISTRATION " PLS READ STEPS FOR FILLING UP ONLINE REGISTRATION FORM - HELP MENU" - DETAILS ATTACHED WITH THIS MAIL**

With effect from 01.04.2015 onwards, we have migrated to online Supplier Registration Form (SRF) as per our Corporate guidelines. **Supplier Registration Form (SRF)** is to be fed in our BHEL website portal – **ie., PDF documents of SRF and its annexure as called for shall be signed by authorized signatory & uploaded in portal.**

We request to visit our Web Site : [www.bhel.com](http://www.bhel.com) and click under heading "Supplier Registration" and fill up the **"Supplier Registration Form"** which is available in the Online Supplier Registration Portal.

Or else, copy the following URL Link and paste in the web link address: [http://www.bhel.com/vender\\_registration/vender.php](http://www.bhel.com/vender_registration/vender.php) and proceed with.

Or else, type directly as <http://203.129.195.108>

**Click the button "search material"** on the home page of supplier registration portal and search thoroughly your required material / product

*After completing the material search then proceed for User Id & Password for filling up the details of registration requirements. **Note: If you are an already registered supplier with any of our BHEL Unit - pls select "existing permanent supplier" or else select "New Registration" and then proceed accordingly.***

**Please note that for a foreign suppliers' there is a separate format to be filled in, which may be taken care suitably.**

After successful submission of SRF along with all annexures as called for thro' online i.e., authorized signatory signed pdf documents of SRF and its annexures are to be uploaded thro' online portal and confirm the same in **"form dispatch"** area ie., registration part-4 – wherein supplier has to confirm that all the documents were submitted "online" and click the button **"confirm"**. After clicking confirmation button, the same will be appearing against BHEL Ranipet for registration.

Looking for a long successful & sustaining business association with BHEL.

## TERMS AND CONDITIONS FOR INDIGENOUS OFFERS

- a) **Quotations :** Each Tender should be sent in duplicate in a sealed cover. Inner cover should be sealed with tender's distinctive seal and superimposed with correct Tender No., item of supply and due date of opening. Tender should not be addressed to any individual's names but only by designation and shall be addressed to Dy. Manager/Purchase, BHARAT HEAVY ELECTRICALS LIMITED, BOILER AUXILIARIES PLANT, INDIRA GANDHI INDUSTRIAL COMPLEX, RANIPET, VELLORE DISTRICT - 632406, INDIA.
1. Detailed Technical Literature / Write up
2. Latest Catalogue covering the items in quote.
3. Detailed Dimensional Drawing.
- b) Tenders should be neatly typewritten and should be free from CORRECTION AND ERASURES. Corrections, if any, must be attested. All amount shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
- c) Price should be net F.O.R. destination inclusive of risk in transit and remain valid for 90 days from the due date.
- d) If any Sales Tax is payable as extra to the quoted price it should be specifically stated in quotation failing which the purchaser will not be liable for payment of Sales Tax. Our TIN No. 33024364741 & CST Number 1141696.
- e) Products with I.S.I certification marks will be preferred.
- f) The applicable rate of excise duty shall be clearly indicated in the quote itself.
- g) The tenderer shall fill up the specification Deviation Disposition Report either NIL or the deviation taken by the tenderer against the Tender specification.
2. **Samples :** Wherever possible samples should be submitted separately whether specifically requested or not, so as to reach the purchase on or before the due date of the enquiry. They should be clearly marked with the Enquiry No. and the date on the outside cover to facilitate identification.
3. **Packing and Marking :** The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.
4. **Terms of Payment :** Payment will be made within 45 days for MSME (Small / Micro) Vendors and 90 days for others after receipt and acceptance of materials at BHEL Stores or receipt of site acknowledgment in case of direct to site items of satisfactory receipt of materials at site. Where required by the purchase, the successful tenderer must send the operation and maintenance manuals, test certificates, drawings, etc., as called for, for the materials ordered. These should be sent immediately after despatch of the materials and a statement to that effect should be made in the invoice. Failure to comply with this provision will result in delay in payment of the bills. Goods despatched either by V.P.P. or by the documents presented through bank will not be accepted unless agreed to by the Purchaser.
- The transporter's copy of Excise Invoice should accompany the material. The Original Invoice alongwith other documents shall be (a) routed through bank or (b) directly sent to us as called for in the contract. One set of the Advance copies of the above documents shall be sent to Manager / Finance (Stores Bill section), BHEL, BAP, RANIPET - 6 and one set to Dy. Manager / Purchase BHEL, BAP, RANIPET - 6.
5. **Liquidated Damages :** It is clearly understood among the parties to the contract that "Time is the essence of the contract". Therefore, the delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplies or despatches the goods, beyond the delivery period specified, the Purchaser will have no obligation to accept the goods. If accepted, liquidated damages at the rate of 1/2% of the value of goods delayed for each week of delay or part thereof will be levied without prejudice to any other relief or compensation due to the purchaser under any other condition of this contract.
6. **Risk Purchase :** Alternatively, the purchaser at his option will be entitled the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in Clause 6 above.
7. **Preferential Delivery :** It should be noted that if a contract is placed on higher tenderer as a result of this invitation to tender in preference to the lowest acceptable offer in consideration to the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. destination including all elements of freights, sales tax, duties and other incidentals in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
8. **MODVAT CREDIT :** If any Excise duty is payable, the chapter 17 - head reference and the rate of duty

should be quoted. If the tenderer is availing MODVAT credit for the input material, the effect of proforma credit it should be passed on the purchaser. Tender under "MODVAT" shall be proforma.

9. **General :** a) The Purchaser reserves the right to split up the tender and place for individual items with different tenderers and also increase the quantity.

## TERMS AND CONDITIONS FOR FOREIGN OFFERS

**Offer :** Offer in ENGLISH LANGUAGE AND IN TRIPLICATE IN A SEALED COVER superscribing the enquiry number and due date shall be submitted addressed to : THE DY. MANAGER / PURCHASE, BHARAT HEAVY ELECTRICALS LIMITED, BOILER AUXILIARIES PLANT, INDIRA GANDHI INDUSTRIAL COMPLEX, RANIPET - 632 406, TAMIL NADU, INDIA.

Offers should be firm for net FOB / FCA nearest Sea / air port price and C & F Chennai Port Price indicating the shipping specifications and the earliest delivery in the respect of others from overseas suppliers.

### Documents :

- (i) Offers should be accompanied by detailed technical literature, catalogue and detailed dimensional drawing in ENGLISH and in TRIPLICATE, or otherwise the offers will not be considered.
- (ii) In case overseas suppliers route their accredited selling agents, a letter of authority should be furnished mentioning the name and address of their selling agents, who are authorised to bid, negotiate and conclude a contract on their behalf.

**Agency Commission :** In respect of offers from overseas suppliers, agency commission, if any, payable to their agents in India shall invariably be shown separately in the proforma invoice and this will be paid by us in India, in Indian Rupees, on satisfactory completion of the contract.

**Spare parts :** The tenderer should quote separately for spares that are required for two years trouble free operation. The spares offer should accompany the offer of main equipment, otherwise the quotation will be overlooked.

**Validity :** The offers for main equipment and spares shall be kept open for acceptance for 120 days (one hundred and twenty days) for the date of opening of the tender.

**Test Certificates, Operating and Maintenance Manuals :** The tenderer shall clearly mention in their offer that Test Certificates and Operating and Manuals, etc., as called for in technical specification, in the required number of copies will be provided at no extra cost. If any amount is payable as extra, the same shall be indicated separately in the offer.

**Terms and payment :** In the event of an order the purchaser will arrange for an unconfirmed irrevocable letter of credit against presentation of documents. Under, no circumstances confirmed irrevocable letter of credit will be established by the purchaser.

### General :

- (i) Preference will be given to suitable indigenous or ex-stock imported offers, failing which imported offers from incoming consignment against the indigenous supplies "Stock and sale Licence" will be accepted, if Stock and sale licence is not available with the indigenous suppliers, the same shall be indicated in their offer.
- (ii) The offer should reach us before the time of opening of tenders. The offer will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present.
- (iii) **BANK GUARANTEE (if applicable) :** The supplier in the event of an order, should furnish a Bank Guarantee from an approved Bank at no extra cost in a proforma which will be supplied to the supplier, along with the order, for an amount equivalent to 10% of the value of the contract. The Bank Guarantee should remain in full force and effect during the period that would be taken of successful completion of the contract and shall continue to be enforceable till 12 months from the date of receipt of receipt of consignment at purchaser's site or 18 months from the date of last shipment at the port of Delivery, whichever is earlier.
- (iv) **INCOTERMS :** The definition for terms shall be as per Incoterms 2000
- (v) **PLEASE QUOTE YOUR RATE FOR ALL THE FOLLOWING CONDITIONS.**
  - (a) FOB on at sight L.C.
  - (b) On C & F Chennai Port India with at sight L.C.
  - (c) Rate on credit basis with rate of interest and period of credit.
  - (d) Rates with suppliers credit.

#### Payment Mechanism at BHEL, Ranipet

(Effective for all tenders issued by BHEL Ranipet from 01 July 2011 onwards unless otherwise notified of change/s in writing given by an authorized official of BHEL, Ranipet)

BHEL, Ranipet's payment mechanism will be as follows: (All Bidders are requested to read this carefully and take note of it before submitting their offer)

All bills of Suppliers processed for payment by BHEL, Ranipet shall pass through the following mile stones:

(1) Receipt of materials at BHEL, Ranipet Stores (evidenced by the Day-Book Number and Date generated at BHEL Stores, Ranipet) or Receipt of materials at Project Site / Destination specified in the Purchase Order (as evidenced by the acknowledgement given by the Consignee).

(2) Acceptance of the supplied materials at BHEL Stores, Ranipet. (Proof of evidence: Stores Receipt voucher - Short form "SRV", raised by BHEL Stores, Ranipet referenced by the SRV Number and Date)

(3) Receipt and Registration of the Bills / Invoices of the Supplier at BHEL, Ranipet Accounts Department. (evidenced by the ABS Number and Date)

(4) Receipt of clarifications, if any that may be required by BHEL, Ranipet Accounts or Purchase Department, from the Supplier. (As evidenced by the IOM Inward Date)

(5) Bill processing and passing.

(6) Payment release.

All these events are transparently available in the SCM web-site of BHEL, Ranipet, {<http://bapscm.bhelrpt.co.in/purc>} which can be viewed by all registered supplier with a password. Allowed Time frames:

A] From DB to SRV: 10 Days

B] From SRV to ABS: 15 Days

C] From ABS to Bill Pass: 07 Days (if Stage 4 above is not applicable)

OR

From IOM to Bill Pass: 07 Days (if Stage 4 above is applicable)

D] From Bill Pass to Payment Release: As per payment terms of the Purchase order.

All Suppliers payment/s would be released based on seniority of receipt of the processed bills at the payment section of BHEL, Ranipet Accounts Department.

The seniority would be based on the sequence of milestone events listed above.

In the sequence of the bill processing the preceding mile-stone seniority will be void, if the subsequent event occurs beyond the permitted time frame between two successive events.

Thus for example:

Start seniority would be with the DB date.

If the SRV date is greater than 10 days of the DB date, then the seniority of the DB date would be replaced by the SRV date.

If the ABS date is greater than 15 days of the SRV date, then the seniority would be reckoned by the ABS date.

If the Bill pass date is greater than 07 days of the ABS date then the seniority would be the date of inward receipt of the IOM.

The logics of these sequence is that SRV, ABS, IOM inward entry are dependent entirely on submission of correct documentation by Suppliers, as called for in the Purchase Order. If the documents are correctly submitted each of the milestone listed above will occur within BHEL, Ranipet within the timelines specified above.

Hence, in their own interest all Suppliers are requested to take note of this process and comply with the same.

Caution: Suppliers' payments would get delayed / affected if they fail to adhere to the submission of the documents specified in the Purchase Order / Contract, since the listed milestone events occurrence are contingent upon the availability of the requisite documents.

|                                                                                   |                                                   |                              |
|-----------------------------------------------------------------------------------|---------------------------------------------------|------------------------------|
|  | SPECIFICATION FOR<br>RO MEMBRANE PRESSURE VESSELS | SPEC.NO.ROS:6252<br>REV.: 00 |
|-----------------------------------------------------------------------------------|---------------------------------------------------|------------------------------|

**BHARAT HEAVY ELECTRICALS LIMITED,  
RANIPET- 632 406**

**TECHNICAL SPECIFICATION  
FOR  
RO MEMBRANE PRESURE VESSELS (SWRO & BWRO)  
UDANGUDI - 2 x 660 MW**

|        |          |                       |                           |                                |             |
|--------|----------|-----------------------|---------------------------|--------------------------------|-------------|
|        |          |                       |                           |                                |             |
|        |          |                       |                           |                                |             |
|        |          |                       |                           |                                |             |
|        |          |                       |                           |                                |             |
|        |          |                       |                           |                                |             |
| 00     | 22.06.19 | <u>A.Kumar</u><br>ABH | <u>S. Sivabalan</u><br>SS | <u>J.N. Ramalingam</u><br>IMRL | Fresh issue |
| Rev.No | Date     | Prepared              | Checked                   | Approved                       | Remarks     |

|                                                                                   |                                                                                       |                  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------|
|  | <p style="text-align: center;">SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</p> | SPEC.NO.ROS:6252 |
|                                                                                   |                                                                                       | REV.: 00         |

## 1.0 SCOPE OF SUPPLY

The intent of this specification is to cover Design, Engineering, Manufacturing, shop testing & supply of **RO membrane Pressure Vessels for SWRO ( Sea Water Reverse Osmosis ) system & RO Membrane Pressure Vessels for BWRO ( Brackish Water Reverse Osmosis) system.**

The scope shall fully cover the requirement of the Design Criteria and Technical requirement of this specification. The scope shall include but not limited to the following:

- a) Pressure vessels suitable for housing of RO membranes. Each pressure vessel shall consists of following
    - Pressure vessel with end cap assembly - 1 set
    - Interconnectors with 'O' rings - 1 set
    - Support saddles & SS316 Holding strips - 3 set
  - b) The manufacturer shall provide one set of special tools for assistance in assembly / disassembly of membrane elements, removal of end cap assembly from the vessel, membrane permeate probing etc. These shall include Rubber Mallet, Nose pliers, channel lock pliers, Permeate Probing set & 'O' ring lubricant etc., along with the main supply.
  - c) Commissioning spares - 1 set
- 1.1 Items though not mentioned, but needed to make the system complete as stipulated under these specifications are also to be furnished unless otherwise specifically excluded.
  - 1.2 In case of any deviation, the Bidder shall indicate the same, clause by clause in the deviation schedule. In the absence of the same it will be construed that the bid confirms strictly to the specification.
  - 1.3 The inspection at bidder's / Sub vendor's work before dispatch of all equipment shall be carried out as per agreed QAP. The inspection at bidder's work before dispatch shall be carried out by BHEL / BHEL Authorized agency / Customer / Jointly by Customer & BHEL before dispatch.
  - 1.4 The order of priority of this specification is as follows:
    - Technical requirement / Equipment Specification,
    - General design requirements
  - 1.5 The material shall be dispatched to stores department- BHEL / BAP / Ranipet, Tamil Nadu. The quality plan (QAP) formats will be given by the customer after ordering

|                                                                                   |                                                                                       |                         |
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|  | <p style="text-align: center;">SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</p> | <p>SPEC.NO.ROS:6252</p> |
|                                                                                   |                                                                                       | <p>REV.: 00</p>         |

## 2.0 EQUIPMENT SPECIFICATION:

### 2.1 GENERAL

- 1) Equipment : Pressure Vessel & Accessories
- 2) Application : To house RO Membranes
- 3) Surrounding : Dusty, humid atmosphere
- 4) Installation : Indoor
- 5) Ambient Temperature : 50 Deg.C

### 2.2 TECHNICAL SPECIFICATION:

#### A) SWRO Pressure Vessel :

- 1) Make / Model : Bidder to specify
- 2) Material of construction : FRP
- 3) Vessel Size : To house spiral wound RO-membranes of  
Size: 8" dia. x 40" length each
- 4) No. of elements per vessel : 7
- 5) Pressure Rating : 1000 psi
- 6) Design pressure : 1000 psi
- 7) Test pressure : As per design code (ASME SEC – X, code stamp  
not required).
- 8) Burst Pressure : As per design code
- 9) Quantity required : 184 Sets (total)

Variant-I: 88 sets, Variant-II: 96 sets,

10)

| Sl. no   | Type of port                            | Variant-I (88 sets)                 | Variant-II (96 sets)                |
|----------|-----------------------------------------|-------------------------------------|-------------------------------------|
| <b>A</b> | <b>Feed port (per vessel)</b>           |                                     |                                     |
|          | -Port orientation(side port) 180° apart | 2 Nos                               | 1 Nos                               |
|          | -Port size with IPS grooved end         | 2.5"                                | 2.5"                                |
|          | -MOC                                    | Super duplex SS<br>UNS32750, sch.40 | Super duplex SS<br>UNS32750, sch.40 |

|                                                                                   |                                                           |                  |
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|  | <b>SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</b> | SPEC.NO.ROS:6252 |
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|          |                                                   |                                     |                                     |
|----------|---------------------------------------------------|-------------------------------------|-------------------------------------|
| <b>B</b> | <b>Brine port (per vessel)</b>                    |                                     |                                     |
|          | -Port orientation(side port)<br>same as Feed port | 2 Nos                               | 1 No                                |
|          | -Port size with IPS grooved end                   | 2.5"                                | 2.5"                                |
|          | -MOC                                              | Super duplex SS<br>UNS32750, sch.40 | Super duplex SS<br>UNS32750, sch.40 |

11) Permeate port (for all variants):

- Port orientation : End port – 1 Nos. per vessel
- Port size : 1.5" with IPS Grooved End
- MOC : Engineering thermoplastic.

12) Permeate End Port (for all variants):

- Port orientation : End port – 1 Nos. per vessel
- Port size : 1.0" NPT Female.
- MOC : Engineering thermoplastic.

13) Water TDS / Chloride : 38000 / 21000 ppm

**B) BWRO Pressure Vessel :**

- 1) Make / Model : Bidder to specify
- 2) Material of construction : FRP
- 3) Vessel Size : To house spiral wound RO-membranes of  
Size: 8" dia. x 40" length each
- 4) No. of elements per vessel : 6
- 5) Pressure Rating : 300 psi (non- coded)
- 6) Design pressure : 300 psi
- 7) Test pressure : As per design code (ASME SEC - X code stamp  
not required).
- 8) Burst Pressure : As per design code
- 9) Quantity required : 16 Nos.
- 10) Feed port :-
  - Port orientation : Side port - 2 Nos. per vessel (180° apart)
  - Port size : 3" with Victaulic grooves

|                                                                                   |                                                                                       |                  |
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|  | <p style="text-align: center;">SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</p> | SPEC.NO.ROS:6252 |
|                                                                                   |                                                                                       | REV.: 00         |

- MOC : SS316L

11) Brine port :-

- Port orientation : Side port -2 Nos. per vessel (180° apart, same as feed port)
- Port size : 3" with Victaulic grooves
- MOC : SS316L

12) Permeate port :-

- Port orientation : End port – 1 Nos. per vessel
- Port size : 1.5" with Victaulic grooves
- MOC : Engineering thermoplastic.

13) Permeate End port :-

- Port orientation : End port – 1 Nos. per vessel
- Port size : 1.0" NPT Female
- MOC : Engineering thermoplastic.

14) Water TDS / Chloride : 500 / 300 ppm

### 3.0 General

The equipment supplied shall be guaranteed for a minimum period of 12 (twelve) months from the date of successful commissioning of the plant (or) 18 months from the date of receipt of all materials at site, whichever is earlier. The date of receipt of last item at site will be reckoned for this purpose.

Any part which proves defective either in design, materials / and / or manufacture within the above guarantee period shall be replaced at free of cost to the owner at site and the provision of this clause shall apply to the portions of the plant so replaced or renewed until the expiration of the guarantee period or from the date of replacement which ever is later.

### 4.0 SPARES

#### 4.1 Commissioning Spares:

The bidder shall provide the list of commissioning spares and it shall be delivered along with the main supply well in time before the start-up & commissioning of the plant. The commissioning spares list is indicated in this section.

Over and above of the list provided, if any additional items are required for trouble free commissioning of the equipment / system shall also be included in the list. The price for the commissioning spares shall be included in the main

|                                                                                   |                                                           |                  |
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supply and the list shall be provided along with the bid, this price will be included for bid evaluation. Any unutilized commissioning spares shall be handed over to the Customer

#### SWRO Commissioning Spares

| Sl.No | Item Description                     | Qty.   | Remarks |
|-------|--------------------------------------|--------|---------|
| 1     | Adapter seal 'O' ring                | 50 Nos |         |
| 2     | End cap assembly                     | 5 Nos  |         |
| 3     | Thrust cone                          | 5 Nos  |         |
| 4     | Membrane Seal for Adapter ('O' Ring) | 50 Nos |         |
| 5     | Head Seal                            | 20 Nos |         |

#### BWRO Commissioning Spares

| Sl.No | Item Description                     | Qty.   | Remarks |
|-------|--------------------------------------|--------|---------|
| 1     | Adapter seal 'O' ring                | 20 Nos |         |
| 2     | End cap assembly                     | 2 Nos  |         |
| 3     | Thrust cone                          | 2 Nos  |         |
| 4     | Membrane Seal for Adapter ('O' Ring) | 20 Nos |         |
| 5     | Head Seal                            | 5 Nos  |         |

#### 4.2 Mandatory Spares:

| Sl.No | Item Description                     | Qty.  | Remarks                      |
|-------|--------------------------------------|-------|------------------------------|
| 1     | Adapter seal 'O' ring                | 1 set | 10% of the supplied quantity |
| 2     | Membrane Seal for Adapter ('O' Ring) | 1 set | 10% of the supplied quantity |

**Note :** The above quantity should be treated separately for SWRO Pressure Vessels & BWRO Pressure Vessels respectively.

#### 5.0 DOCUMENTATION:

The documentation during bid and post order stage shall meet the following requirements.

1. All documents and drawing shall be submitted in English

|                                                                                   |                                                                                       |                  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------|
|  | <p style="text-align: center;">SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</p> | SPEC.NO.ROS:6252 |
|                                                                                   |                                                                                       | REV.: 00         |

2. Hard copies of all documents and drawings during bid stage to be submitted in duplicate.
3. Hard copies of all documents for approval shall be submitted in triplicate.
4. Hard copies of all final documents, drawings, manual etc., shall be submitted in bound folder in duplicate.
5. Soft copies of all final documents in MS word / MS office in the form of CD –1 set
6. Soft copies of all final calculations in MS excel/ MS office in the form of CD–1set
7. Soft copies of all final drawings in Auto Cad, latest version in the form of CD-1set

## 5.1 DOCUMENTS ALONG WITH BID:

The following drawings / documents are to be enclosed along with the bid for scrutiny.

1. A technical write-up giving detail of capacities and GA drawing
2. Filled up data sheets as called in the specification – **Annexure -1**
3. Typical Quality Plan.
4. Deviation schedule duly filled, if any –**Annexure – 3**.
5. Un priced commercial offer on the scope of supply
6. Un priced commercial offer for the recommended spares list

### Note:

In case of any deviation, the Bidder shall indicate the deviation, clause by clause in the deviation format attached in **Annexure - 3**. If there is no deviation “NIL” statement shall be furnished. In the absence of the non-attachment of this **Annexure-3**, it will be construed that the bid confirms strictly to the specification.

## 5.2 DOCUMENTS AFTER ORDER

The following documents / Drawings and data to be furnished for BHEL / customer approval / information

### Phase-I (for approval) within 2 weeks from the date of purchase order receipt:

1. Technical Write-up and design basis
2. GA drawings, detailed assembly & cross sectional drawings with bill of materials of Pressure vessel
3. Dully filled up datasheets for approval as per **Annexure – 1 & Annexure - 2**

### Phase-II (For information & review) within 4 weeks from the date of order receipt

1. Erection Manual indicating
  - a. Assembly, erection / installation instructions of equipment.
  - b. Field quality checks

|                                                                                   |                                                                                       |                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------|
|  | <p style="text-align: center;">SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</p> | <p>SPEC.NO.ROS:6252</p> |
|                                                                                   |                                                                                       | <p>REV.: 00</p>         |

2. Operation and maintenance manual.

**Note:**

Bidder to confirm in their offer that these details called in 5.2 will be provided.  
The documents under Phase-II shall be submitted before dispatch.

### 5.3 ATTACHMENTS

- 1) Port Arrangement for SWRO Pressure Vessel : Annexure A
- 2) Port Arrangement for BWRO Pressure Vessel : Annexure B

|                                                                                   |                                                           |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|
|  | <b>SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</b> | SPEC.NO.ROS:6252 |
|                                                                                   |                                                           | REV.: 00         |

**Annexure - 1**

**EQUIPMENT DATA SHEET FOR SWRO VESSEL**

**RO PRESSURE VESSELS :**

- 1) Make :
- 2) Model :
- 3) Material of construction
  - Pressure vessel :
  - End Plate :
  - End adapters :
  - Interconnector :
  - Holding strips :
  - Support saddle :
  - O rings :
  - Feed & Brine port :
  - Permeate port :
- 4) Quantity of pressure vessels offered set :
- 5) Pressure rating psi :
- 6) Design Pressure psi :
- 7) Test pressure psi :
- 8) Burst Pressure psi :
- 9) Port size / Orientation
  - Feed : /
  - Brine : /
  - Permeate : /
- 10) Port Victaulic Groove Style
  - Feed :
  - Brine :
  - Permeate :
- 11) Empty weight Kgs :
- 12) Filled weight Kgs :
- 13) Shipment weight Kgs :
- 14) Vessel Drawing No. :

|                                                                                   |                                                           |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|
|  | <b>SPECIFICATION FOR<br/>RO MEMBRANE PRESSURE VESSELS</b> | SPEC.NO.ROS:6252 |
|                                                                                   |                                                           | REV.: 00         |

### **EQUIPMENT DATA SHEET FOR BWRO VESSEL**

#### **RO PRESSURE VESSELS :**

- 1) Make :
- 2) Model :
- 3) Material of construction
  - Pressure vessel :
  - End Plate :
  - End adapters :
  - Interconnector :
  - Holding strips :
  - Support saddle :
  - O rings :
  - Feed & Brine port :
  - Permeate port :
- 4) Quantity of pressure vessels offered set :
- 5) Pressure rating psi :
- 6) Design Pressure psi :
- 7) Test pressure psi :
- 8) Burst Pressure psi :
- 9) Port size / Orientation
  - Feed : /
  - Brine : /
  - Permeate : /
- 10) Port Victaulic Groove Style
  - Feed :
  - Brine :
  - Permeate :
- 11) Empty weight Kgs :
- 12) Filled weight Kgs :
- 13) Shipment weight Kgs :
- 14) Vessel Drawing No.

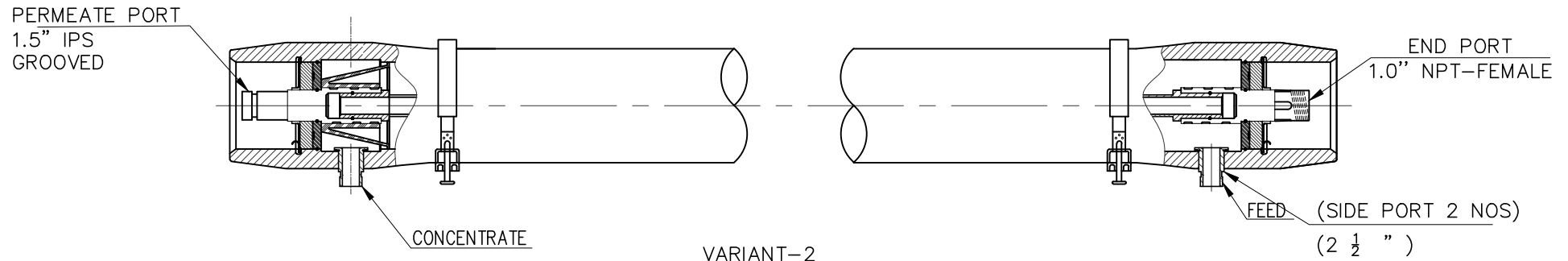
|                                                                                   |                                                   |                  |
|-----------------------------------------------------------------------------------|---------------------------------------------------|------------------|
|  | SPECIFICATION FOR<br>RO MEMBRANE PRESSURE VESSELS | SPEC.NO.ROS:6252 |
|                                                                                   |                                                   | REV.: 00         |

### ANNEXURE-3

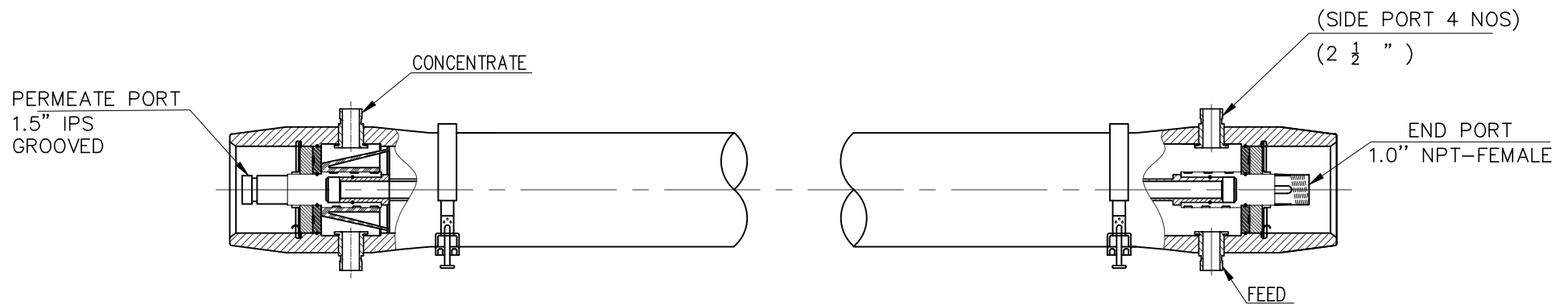
#### TECHNICAL DEVIATIONS

| Sl. No | Section No. | Clause No. | Page / No. | Specification | Statement of Deviations/variatio | Reason for Deviation | cost of withdrawal |
|--------|-------------|------------|------------|---------------|----------------------------------|----------------------|--------------------|
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |
|        |             |            |            |               |                                  |                      |                    |

## ANNEXURE A



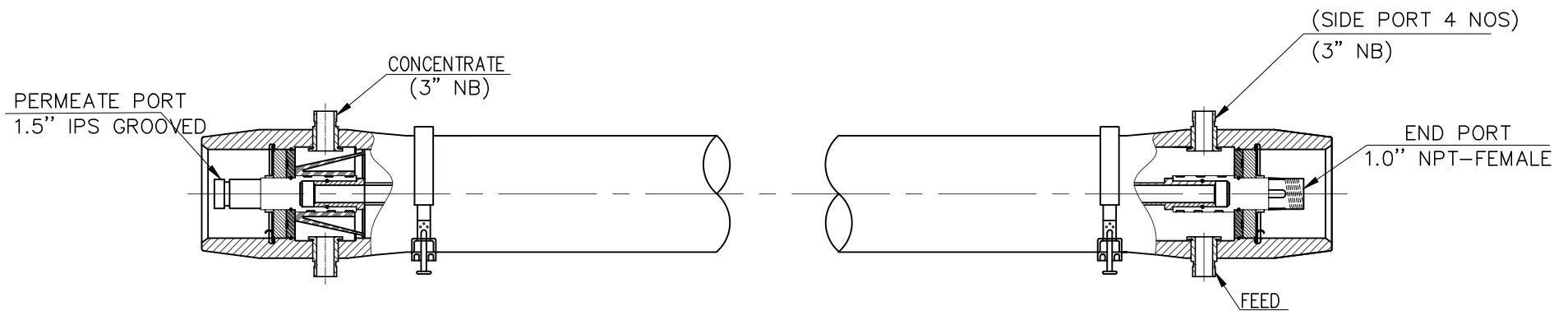
NOS. OF PR. VESSELS =  $48 \times 2 = 96$  NOS.



NOS. OF PR. VESSELS =  $44 \times 2 = 88$  NOS.

**PORT OREINTATION FOR SWRO PRESSURE VESSEL.**

## ANNEXURE B



6 ELEMENT PRESSURE VESSEL

NOS. OF PR. VESSELS = 08X2 = 16 NOS.

## PORT OREINTATION FOR BWRO PRESSURE VESSEL

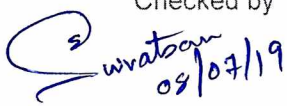
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|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|
|  | BHEL: BAP: RANIPET<br>Water Systems<br>Pre-Qualification requirement for 1 <sup>st</sup> Pass RO (SWRO) Membrane<br>Pressure Vessels | Ref:  | RWT90775:SWROPV |
|                                                                                   |                                                                                                                                      | Dt:   | 08.07.19        |
|                                                                                   |                                                                                                                                      | Rev : | 00              |

The Qualification requirements for SWRO membrane pressure vessels and accessories are listed below and bidders should meet the same:

1. Bidder should have manufactured and supplied either directly or through authorized agency to SWRO (Sea water reverse osmosis) plant for power plant / industrial /municipal application.
2. The offered make & model of SWRO membrane pressure vessel should have proven track record with satisfactory operation in a SWRO plant with the following details:
  - a. Size of each pressure vessel supplied to the reference plant shall not be less than that required to house minimum 7 nos of 8" diameter x 40 "length of RO membranes.
  - b. The pressure rating of the Pressure vessel supplied to the reference plant shall not be less than 1000 psi.
3. The pressure vessel/s (referred by the bidder under above Sl. No. 2) should have been in operation for not less than two years as on the date of techno-commercial bid opening.
4. Bidder shall furnish necessary documentary evidence copy such as P.O./GA Drawing / Data Sheet etc. as a proof of meeting the qualifying criteria for review by BHEL. In addition to the above, bidder shall fill up the details as per **Annexure-I**. The final acceptance is subject to customer approval.

**General:**

1. Bidders who defaulted, in any of the previous tenders floated by BHEL are not permitted to respond. Such offers, if found later, will not be considered for evaluation.
2. After receipt of offers, during scrutiny, if any vendor found to have been banned by BHEL, then their offer will be summarily rejected at any stage.

|                                                                                                                |                                                                                                               |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Prepared by<br><br>08/07/19 | Checked by<br><br>08/07/19 | Approved by<br><br>08/07/19 |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

|                                                                                   |                                                                                                                                      |       |                 |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|
|  | BHEL: BAP: RANIPET<br>Water Systems<br>Pre-Qualification requirement for 1 <sup>st</sup> Pass RO (SWRO) Membrane<br>Pressure Vessels | Ref:  | RWT90775:SWROPV |
|                                                                                   |                                                                                                                                      | Dt:   | 08.07.19        |
|                                                                                   |                                                                                                                                      | Rev : | 00              |

# **Annexure-I**

## **A. Customer details: -**

- a. Name :  
b. Designation :  
c. Mobile :  
d. Land line :  
e. Fax :  
f. Email id :  
g. Postal address :

## **B. Plant Details:-**

**Date of Supply :**

**Date of commissioning:**

| Sl. No. | Parameters                                   | Unit                | Value |
|---------|----------------------------------------------|---------------------|-------|
| 01      | Model no:                                    |                     |       |
| 02      | No. of pressure vessels per stream:          | Nos                 |       |
| 03      | Number of streams:                           | Nos.                |       |
| 04      | Capacity of each stream:                     | m3/hr               |       |
| 05      | No. of RO membranes per each pressure vessel | Nos                 |       |
| 06      | Size of each RO membrane :                   | Dia x length (inch) |       |
| 07      | Pressure rating of each pressure vessel      | psi                 |       |
| 08      | MOC of RO pressure vessel                    |                     |       |
| 09      | End use                                      |                     |       |

*Signature of the Vendor*

| Sl.No | BHEL / Customer Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ##Specific confirmations by the manufacture |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1     | <b>Quality Plan Requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |
|       | (i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Typical MQP is attached for indicative purposes 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 is acceptable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |
|       | (v) Bidder shall agree to submit all cross referred documents other than codes/standards to BHEL/Customer/Consultant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |
|       | <b>Important Notes shall be included in MQP :</b><br>(a) Latest revision of Standards & Specification shall apply. Only International Standards are applicable. Indian & Chinese Standards are not applicable<br>(b) Materials shall be procured in compliance to Functional Technical Specification.<br>(c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product.<br>(d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V.<br>(e) Gauges and measuring Instruments, with valid calibration only shall be used.<br>(f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule.<br>(g) Finished Products shall be packed to comply with Approved Packing Schedule.<br>(h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V.                                                                                                                        |                                             |
| 2     | <b>Domestic / Inland Inspection</b> will be carried out by BHEL/BHEL appointed Third Party Inspection Agency (TPIA) / Customer/Customer Appointed 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     | <b>Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Foreign Sources:</b><br>(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.<br>(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.<br>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.<br><b>List of TPIA</b><br>1.M/s Bureau Veritas<br>2.M/s TUV-Nord<br>3.M/s TUV-SUD<br>4.M/s TUV Rheinland<br>5.M/s Lloyds Register<br>6.M/s SGS<br>7.M/s Germanischer Lloyd<br>8.M/s QUEST<br>9.M/s Certification Engineers International<br>10.M/s Intertek<br>11.M/s IR Class Systems and Solutions<br>12.M/s DNV<br>13. M/s Fichtner<br>14. M/s ABS Inspection Services |                                             |
| 4     | <b>Stage Inspection during manufacturing Process :</b> 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) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |

| Sl.No | BHEL / Customer Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ##Specific confirmations by the manufacture |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 5     | <b>Inspection before despatch for domestic supplier :</b> Inspection before despatch at supplier's works shall be carried out by BHEL/BHEL appointed inspection agency. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| 6     | Inspection at Foreign Source/Supplier:<br>(a) As in sl no: 3. shall be ensured without fail<br>(b) No materail / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by BHEL/BHEL apointed Third Party Inspection Agency (TPIA) / 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).<br>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     | <b>Painting</b> 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 advavnce before proceding including the BOI being procured 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<br>(i) Index Sheet<br>(ii) MQP/RQP/Endorsement Sheet (As applicable)<br>(iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP.<br>(iv) Final inspection report + TC including Chemical + Mechnaical + HT + NDT etc<br>(v) Third party Inspection report + TC<br>(vi) Customer CHP/ MDCC<br>(vii) Type test / Performance Test reports conducted<br>(viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer<br>(ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.                                                                                                                                                                                                                                                                                                                                                        |                                             |
| 9     | <b>Packing / Seaworthy Packing</b> 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    | <b>Outsourcing of test facilities:</b> 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    | <b>Important Note:</b> 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    | <b>##</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |