

Ref. Enquiry No.: E-5609/2017
Dated: 06.05.2017

DUE DATE
17 MAY 2017
By 02.00 P.M

Subject: TENDER ENQUIRY FOR GAS CHLORINATION PLANT for 4 X 270 MW BHADRADRI TPS.

1. We are pleased to invite your offers in two parts strictly as per Clause-2.0 of GCC Rev- 06 of the enclosed instructions to bidders via **E –procurement** (<https://bheleps.buyjunction.in>) under mentioned equipment's /system.

BHEL invites offers from reputed Vendors (refer pre-qualification requirement, and other requirements given in this enquiry letter uploaded on our websites i.e. www.bhelpem.com, www.bhel.com, under **Tender Reference** & E-Procurement Portal <https://bheleps.buyjunction.in>) for "Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART, SERVICES PART & MANDATORY SPARES comprising of design (i.e. Preparation and submission of drawing/ documents including "As Built" drawings and O&M Manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, mandatory spares (if applicable) along with spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee /Functional/ Demonstration tests at site (As applicable), obtaining CCOE approval, training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined in tender technical specification". Detailed scope of work & details shall be as per technical specifications and other details hosted on above websites.

SI. NO.	ITEM DESCRIPTION.	Quantity	Delivery
1	GAS CHLORINATION PLANT	As per Price Format & Technical Specification No. PE-TS-411-174A-A001, Rev 00	As per cl no. 2.9 below

Your best quotation/offer for the above requirement, in line with our terms and conditions, should be uploaded through e-procurement Portal. It shall be the responsibility of the bidder to ensure that the tender is uploaded on or before the due date and time. Part-I bids shall be opened at **03.00 P.M** on **17.05.2017** through e-procurement Portal.

2. **Terms and Conditions:** - Please refer GCC Rev 06 which is available on www.bhelpem.com. You are requested to kindly download the same.

2.1 Bidders shall upload their offers meeting the requirements of the following tender documents (enclosed) and other Terms and Conditions included in this Enquiry Letter:

- **Part-I: Techno-Commercial Bid:** Comprising of technical offer, Commercial terms and conditions, unpriced copy of price bid and Annexure-II, PQR documents.
- **Part-II: Price Bid:** Containing prices, **cost of withdrawal of deviation, if any (As per Annexure-II of GCC Rev 06)**, to be uploaded, strictly, as per price schedule of BHEL for complete scope of Tender enquiry.

All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.

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- 2.2 Tenders shall be uploaded strictly in accordance with the requirements of the above tender documents. Deviations (Technical as well as Commercial as per attached sheet), if any, shall be listed out separately in Annexure-II, along with reasons for taking such deviations.
- 2.3 Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
- 2.4 In case there is no change in the technical scope and / or specification and / or commercial terms and conditions, the bidder/s shall not be allowed to change his / their price bids after the due date within the validity period.
- 2.5 If any bidder has mentioned the term Not Applicable / Not Required / Not Quoted in BHEL price format, the same to be substantiated by the bidder. If such item is required to be supplied for system completion in future, same will be supplied free of cost by Vendor.
- 2.6 Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/all tender(s) in part or full without assigning any reason whatsoever.
- 2.7 Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be despatched only after Purchaser's/Owner's inspection at the hold points specified in the approved Quality Plan and issue of Material Despatch Clearance Certificate (MDCC).
- 2.8 All other correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address:

Mr. Sanjeev Kumar-BOP_Ordering/ Asst. Engr. M/s Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: Sanjeev Kumar/ Asst. Engr E-MAIL: sanjeev_k@bhelpem.co.in Ph. No. 0120-4218597	Mr. SHARAD CHANDRA-PGII-2/ Sr. Engr. M/s Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 Kind Attn: SHARAD CHANDRA/ PG-II-2 E-MAIL: sharadchandra@bhelpem.co.in Ph. No. 0120-4213572
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2.9 Delivery: -

Supply - Ten (10) Months from date of LOA (Letter of Award). The submission schedule of drg/doc shall be as per technical specification.

E & C - Six (06) Months from date of availability of front at site. Site Front availability will be reckoned as "Date when site informs for mobilization of manpower and resources".

Mandatory spares - Mandatory Spares and Tools & tackles (if any) are to be delivered along with the last consignment of main supply within the contractual delivery period.

- 2.10 Please contact to BHEL (via mail or phone) for any clarification (technical or commercial) at least 5 days before the due date (Techno-Commercial bid opening).

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2.11 Bidder to note for compliance that this is conditional enquiry and the price bid (Part-II) opening / Reverse Auction is subject to the following: -

- a) Techno-commercial qualification / recommendation of bidder by the BHEL-PEM.
- b) Approval of bidder by End Customer. Same shall be taken up with end customer based on the latest credentials/reference list (Preferably not older than 5 years) furnished by bidder. Accordingly, bidders are requested to submit the following on or before technical bid Part-1 opening: -
 - (i) Company Profile
 - (ii) List of projects executed/ on hand for power sectors / Govt. organizations for the subject package.
 - (iii) Performance Certificates for satisfactory working of the system /equipment's.
 - (iv) Copies of major supply order executed by the vendor.

Note: - Non-registered Vendors who wish to apply for registration in BHEL-PEM can apply through Online Registration Portal available at www.bhelpem.com - vendor section - Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. One set of hard copy of the filled-up SRF downloaded from Online Registration Portal duly signed and stamped has to be submitted.

2.12 PRE-QUALIFICATION REQUIREMENT: -

Bidders who fulfil TECHNICAL & FINANCIAL PRE-QUALIFICATION REQUIREMENT CRITERIA are eligible to participate in this tender.

Bidders are requested to provide the details as per "TECHNICAL AND FINANCIAL PRE-QUALIFYING REQUIREMENTS". Bids of only those bidders shall be evaluated who meet the Technical as well as Financial Pre-Qualifying requirements.

2.13 Evaluation will be done on overall L1 (Total Cost to BHEL) basis.

2.14 CIF content: - Not Applicable

2.15 Contractor will comply with HSE (Health, Safety & Environment) requirement of BHEL.

2.16 BGs should be in favour of BHEL-PSWR in place of PEM. Vendors will be required to submit BGs to executing agency BHEL-PSWR.

2.17 In case of joint bidding Bidders to furnish scope matrix which should be clearly defined between foreign bidder and their Indian representative along with the offer for the Main Supply and Erection & Commissioning

2.18 Prices shall be firm.

2.19 Foreign and indigenous bidders participating in subject tender will necessarily have to buy class III DSCs issued by the certifying authorities in India. Basic procedure /checklist has been uploaded on www.bhel.com for participating in subject tender enquiry through e procurement.

2.20 All the tender documents shall automatically become a part of the Order/Contract after its finalization.

2.21 The offers of the bidders who are on the banned list & also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com

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2.22 The bidder along with its associate/collaborators/sub vendor/subcontractors/sub vendors/consultants/ service providers shall strictly adhere to BHEL fraud Prevention Policy displayed on BHEL website 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. BHEL Fraud prevention policy is also uploaded in vendor's section on www.bhelpem.com.

2.23 Bidder is requested to quote their best competitive prices. "BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non- consideration of their bids, in case BHEL decides to go for RA.

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).

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 the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to 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 in the unit, 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)."

Link for RA guidelines to be followed as:

http://www.bhel.com/vender_registration/pdf/Guidelines%20for%20Reverse%20Auction-2016.pdf.

IMPORTANT INSTRUCTION TO BIDDERS IN CASE OF REVERSE AUCTION

The Bidders has to quote the Single Price (i.e. Total Cost to BHEL) in Reverse Auction. Price are to be inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form/VAT, Freight as applicable, insurance charges, etc. including loading (if any). De-loading (if any) shall be done in line with SCC of the project.

Following Condition in Reverse Auction shall be treated as follows:

Case-I (Taxes & duties and freight are identical in Reverse Auction & Conventional Price Bid)

Resolution: - Ordering shall be done on lower of the two bids (RA closing price & Conventional Price Bid). After successful completion of reverse auction L1 bidder shall be asked to submit break up in line with taxes & duties, freight quoted in their Conventional Price Bid.

Case-II (In case Bidder has quoted 'CST' in Conventional Price Bid and applicable Tax is 'VAT')

Resolution: - "Total Cost to BHEL shall be maintained by reducing proportion amount in Ex-works quoted by Bidder".

Case-III (In case Bidder has quoted 'VAT' in Conventional Price Bid and applicable Tax is 'CST')

Resolution: - Conventional Bid/RA quoted Prices shall be reduced and CST will be allowed.

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Statutory variation shall be applicable.

Any new tax structure (like Goods & Services Tax) as and when implemented by the Government shall become applicable in addition to or in lieu of existing tax structure.

Note: - Applicable taxes & duties shall be determined as per location of works of bidder.

2.24 All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only (www.bhelpem.com, www.bhel.com & <https://bheleps.buyjunction.in>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. **Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement Portal m-junction are also listed below:**

MJUNCTION HELPDESK Nos. 033-6601 1717, 9163348283 / 9163348284 / 9163348285 / 9163348286 / 8584008116 / 8584008205, eps.customercare@mjunction.in

CRM Contact Details:

1. Mr. Santosh Kumar - Cell No. 09717149600, santosh.kumar@mjunction.in
2. Ms. Rimi Ghosh – Cell No 09650044156, rimi.ghosh@mjunction.in

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2.25 Detailed offers are to be uploaded including the following along with the Price schedule as per BHEL format enclosed with NIT: -

- Acceptance of GCC Rev.06
- Acceptance of Special Conditions of Contract (SCC) of the project.
- Pre-qualifying Requirements (PQRs) along with supporting documents
 - FINANCIAL PQR
 - TECHNICAL PQR
- Technical and commercial deviations as per Annexure-II of GCC Rev. 06 only, if any
- A copy of this letter duly signed & stamped on each page as token of acceptance of all terms & instructions conveyed.
- Un-Priced price schedule (format) duly filled in 'Quoted' or 'Q' in each column/row.
- Separate sealed price-bid envelope mentioning Enquiry No., Name of the project/package and Name of bidder in BOLD LETTERS on the top of envelope.

NOTE: In case you are not making an offer against this enquiry, you are requested to send a regret letter so as to reach us on or before the due date.

Thanking you,
Yours faithfully,
For and on behalf of BHEL-PEM


Sharad Chandra
(Sr. Engineer / BOP_Ordering)

Enclosures:

1. Enquiry Letter along with Terms & Conditions (this letter)
2. Technical Specification
3. Financial PQR
4. Technical PQR
5. General PQR
6. Price format/schedule (Prices should be quoted strictly in this format only).
7. SCC Rev-03 of Project.
8. HSE Guidelines.
9. Bank Guarantee for Performance Security.

SUGGESTED PRICE FORMAT FOR FOREIGN BIDDERS															
ANNEXURE I															
LIST OF MANDATORY SPARES															
NAME OF PROJECT:				NIT REF - E-5409/2017 Dated 06.05.2017											
NAME OF PACKAGE:															
TECHNICAL SPECIFICATION:															
IMPORTED ITEMS (Supply not from Indian Territory)				INDIGENOUS ITEMS (Supply from Indian Territory)											
S. N.	DESCRIPTION	UNIT	QTY	C&F Mumbai Sea Port Price (including seaworthy packing) (Currency/INR)	Ocean / Marine Insurance	Custom Duty after availing CENAT benefit if applicable (INR)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.B. site imported items supply price (Currency + INR)	UNIT EX. WORKS PRICE (INR)	TOTAL EX. WORKS PRICE (INR)	ED including cost @ -% for self manufactured items only (INR)	CIT @ -% N. Agreed C form & E/12 or VAT @ -% N. whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @ -% N. OF TOTAL EX. WORKS (INR)	TOTAL F.O.B. SITE PRICE (INR)	Total FOR Spares IMPORTED + INDIGENOUS SUPPLY [(Currency+INR)+ INR]
A. MANDATORY SPARE FOR MECHANICAL ITEMS															
1	CENTRIFUGAL PUMP (for each type, size and rating)	Set	2 sets												
a)	Impeller Complete Assembly	Set	2 sets												
b)	Shaft Spares	Set	2 sets												
c)	Wearring ring - Impeller for each size (if applicable)	Set	1 set												
d)	Wearring ring - Casing for each size (if applicable)	Set	1 set												
e)	Shaft for each size	Set	1 set												
f)	Shaft for each size	Set	1 set												
g)	Coupling between Pump & motor, bushes, pins with all fasteners & coupling	Set	1 set												
h)	Gaskets	Set	1 set												
i)	Oil Seal, Packing & Gland Assembly for each size	Set	1 set												
j)	Complete Set of Pump Bearings	Set	2 sets												
k)	Motor Bearings	Set	2 sets												
2	BLOWERS (for each type, size and rating)	Set	2 sets												
a)	Complete Assembly	Set	2 sets												
b)	Motor Bearings	Set	2 sets												
c)	Blower for each type and rating	Set	2 sets												
d)	Flange Coupled copper lines	Set	2 sets												
e)	Note: One set consists of quantity required for complete replacement for one pump														
B. VALVES AND PIPING															
1	Piping valves & traps - Complete assembly	%													
C. MANDATORY SPARE FOR ELECTRICAL AND C/L ITEMS															
1	Mandatory Spares for Temperature Elements and Thermal relays	Lot	2 Lot												
a)	Thermocouple / RTD elements (10% of each type and length of elements, or a minimum of one hundred, whichever is more)	Lot	2 Lot												
b)	Thermo relays for each type of temperature sensors (10% or a minimum of one for each type, whichever is more)	Lot	2 Lot												
2	Mandatory Spares for Electronic Transmitters (for pressure, DP, Flow, level, Temperature) and Electrical Transducers	Lot	2 Lot												
a)	Transmitters and Electrical Transducers (10% of total number of offered for each model and type for the project or a minimum of one number, whichever is more)	Lot	2 Lot												
3	Mandatory spares for local gauges/switches (for Pressure, DP, Temperature, Flow, level, etc.)	Lot	2 Lot												
a)	Local gauges/switches for Pressure, DP, Temperature, Flow, level, etc. (10% of total number of instruments offered for each model and type for the project or a minimum of one number, whichever is more)	Lot	2 Lot												
b)	Programmable Logical Controller (PLC)	Lot	2 Lot												
c)	Function controller and control modules (10% of number for each type or minimum of 1 number for each type, whichever is more)	Lot	2 Lot												
d)	Process I/O cards and drive modules (10% of the number of cards offered for the project from each category)	Lot	2 Lot												
e)	All other type of electronic modules like CPU of workstation, Power supply modules, communication modules, modules for Data highway / modules for LAN controllers not covered above (10% of each type or minimum of 2 nos. of each type, whichever is more)	Lot	2 Lot												
f)	All cards, controllers, term and other components used in PLC	Lot	2 Lot												
g)	Control logic power supply fuses at each current rating (Three times the one hundred percent spare requirement)	Lot	2 Lot												
h)	Electric to pneumatic converters (10% of each type utilized with automatic control system using pneumatic drives or a minimum of one of each type, whichever is more)	Lot	2 Lot												
i)	Pneumatic type keyboard	Lot	2 Lot												
j)	On/Off switch, Dipswitch	Lot	2 Lot												
k)	PLC	Lot	2 Lot												
l)	Power diodes, diodes mechanism for colour display	Lot	2 Lot												
m)	Diodes for LED display	Lot	2 Lot												
n)	Data highway cables with appropriate connectors	Lot	2 Lot												
o)	Interfaced cables for each type	Lot	2 Lot												
p)	Power supply modules of each type and rating	Lot	2 Lot												
q)	Interfacing / coupling relays of each type	Lot	2 Lot												
4	MANDATORY SPARES FOR UNINTERRUPTIBLE POWER SUPPLY SYSTEM	Lot	2 Lot												
a)	Fuses (3 times the one hundred percent spare replacement fuses shall be furnished with each rated board)	Lot	2 Lot												
b)	Electronic modules for UPS: Charger, static switch & stabilizer and DC power supply system with each set consisting of at least one number of each type of electronic module for inverter, charger, static switch, stabilizer etc.	Set	2 Set												
c)	Battery cells	Lot	2 Lot												
d)	Inverter, output filter etc.	Lot	2 Lot												
e)	Control circuit board	Lot	2 Lot												
5	MANDATORY SPARES FOR CONTROL PANELS / DESKS	Lot	2 Lot												
a)	Control panel	Lot	2 Lot												
b)	Control circuit board	Lot	2 Lot												
c)	Control circuit board	Lot	2 Lot												
d)	Control circuit board	Lot	2 Lot												
e)	Control circuit board	Lot	2 Lot												
f)	Control circuit board	Lot	2 Lot												
6	MANDATORY SPARES FOR ELECTRIC HOST AND CHAIN PULLEY BLOCK	Lot	2 Lot												
a)	Electric Host (for each type and rating, below)	Set	2 sets												
b)	Host for two times above	Set	2 sets												
c)	Host for four times above	Set	2 sets												
d)	Host for six times above	Set	2 sets												
e)	Host for eight times above	Set	2 sets												
f)	Host for ten times above	Set	2 sets												
g)	Host for twelve times above	Set	2 sets												
h)	Host for fifteen times above	Set	2 sets												
i)	Host for twenty times above	Set	2 sets												
j)	Host for twenty five times above	Set	2 sets												
k)	Host for thirty times above	Set	2 sets												
l)	Host for thirty five times above	Set	2 sets												
m)	Host for forty times above	Set	2 sets												
n)	Host for forty five times above	Set	2 sets												
o)	Host for fifty times above	Set	2 sets												
p)	Host for fifty five times above	Set	2 sets												
q)	Host for sixty times above	Set	2 sets												
r)	Host for sixty five times above	Set	2 sets												
s)	Host for seventy times above	Set	2 sets												
t)	Host for seventy five times above	Set	2 sets												
u)	Host for eighty times above	Set	2 sets												
v)	Host for eighty five times above	Set	2 sets												
w)	Host for ninety times above	Set	2 sets												
x)	Host for ninety five times above	Set	2 sets												
y)	Host for one hundred times above	Set	2 sets												
z)	Host for one hundred and fifty times above	Set	2 sets												
aa)	Host for two hundred times above	Set	2 sets												
ab)	Host for two hundred and fifty times above	Set	2 sets												
ac)	Host for three hundred times above	Set	2 sets												
ad)	Host for three hundred and fifty times above	Set	2 sets												
ae)	Host for four hundred times above	Set	2 sets												
af)	Host for four hundred and fifty times above	Set	2 sets												
ag)	Host for five hundred times above	Set	2 sets												
ah)	Host for five hundred and fifty times above	Set	2 sets												
ai)	Host for six hundred times above	Set	2 sets												
aj)	Host for six hundred and fifty times above	Set	2 sets												
ak)	Host for seven hundred times above	Set	2 sets												
al)	Host for seven hundred and fifty times above	Set	2 sets												
am)	Host for eight hundred times above	Set	2 sets												
an)	Host for eight hundred and fifty times above	Set	2 sets												
ao)	Host for nine hundred times above	Set	2 sets												
ap)	Host for nine hundred and fifty times above	Set	2 sets												
aq)	Host for one thousand times above	Set	2 sets												
ar)	Host for one thousand and fifty times above	Set	2 sets												
as)	Host for one thousand five hundred times above	Set	2 sets												
at)	Host for one thousand six hundred times above	Set	2 sets												
au)	Host for one thousand seven hundred times above	Set	2 sets												
av)	Host for one thousand eight hundred times above	Set	2 sets												
aw)	Host for one thousand nine hundred times above	Set	2 sets												
ax)	Host for two thousand times above	Set	2 sets												
ay)	Host for two thousand and fifty times above	Set	2 sets												
az)	Host for two thousand five hundred times above	Set	2 sets												
ba)	Host for two thousand six hundred times above	Set	2 sets												
bb)	Host for two thousand seven hundred times above	Set	2 sets												
bc)	Host for two thousand eight hundred times above	Set	2 sets												
bd)	Host for two thousand nine hundred times above	Set	2 sets												
be)	Host for three thousand times above	Set	2 sets												
bf)	Host for three thousand and fifty times above	Set	2 sets												
bg)	Host for three thousand five hundred times above	Set	2 sets												
bh)	Host for three thousand six hundred times above	Set	2 sets												
bi)	Host for three thousand seven hundred times above	Set	2 sets												
bj)	Host for three thousand eight hundred times above	Set	2 sets												
bk)	Host for three thousand nine hundred times above	Set	2 sets												
bl)	Host for four thousand times above	Set	2 sets												
bm)	Host for four thousand and fifty times above	Set	2 sets												
bn)	Host for four thousand five hundred times above	Set	2 sets												
bo)	Host for four thousand six hundred times above	Set	2 sets												
bp)	Host for four thousand seven hundred times above	Set	2 sets												
bq)	Host for four thousand eight hundred times above	Set	2 sets												
br)	Host for four thousand nine hundred times above	Set	2 sets												
bs)	Host for five thousand times above	Set	2 sets												
bt)	Host for five thousand and fifty times above	Set	2 sets												
bu)	Host for five thousand five hundred times above	Set	2 sets												
bv)	Host for five thousand six hundred times above	Set	2 sets												
bv)	Host for five thousand seven hundred times above	Set													

PRICE FORMAT FOR INDIAN BIDDERS													
NAME OF PROJECT: NAME OF PACKAGE:		NIT REF :- E-5609/2017 Dated 06.05.2017											
TECHNICAL SPECIFICATION:		CW, RW and PW GAS CHLORINATION PLANT											
		PE-TS-411-174A-A001											
S. No.	DESCRIPTION	UNIT	QTY	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	ED @% (INR)	SUPPLY		FREIGHT CHARGES (INCLUDING SERVICE TAX) @% OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	EAC, TRIAL RUN AND PERFORMANCE TEST CHARGES (INR)	SERVICE TAX @% (INR)	EAC, TRIAL RUN AND PERFORMANCE TEST CHARGES INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR)
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART - SERVICES PART & MANDATORY SPARES comprising of design (i.e. Preparation and submission of drawing/ documents including "As Built" drawings and O&M Manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, along with spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee / functional / Demonstration tests at site (As applicable), obtaining CCOE approval, training of customer client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1	2	3	4	5	6	7+2+3+4+5	8	9	10+8+9	11+7+10
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.												
2.1	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART comprising of design (i.e. Preparation and submission of drawing/ documents including "As Built" drawings and O&M Manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, along with spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee / functional / Demonstration tests at site (As applicable), obtaining CCOE approval, training of customer client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1										
2.2	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for the SERVICES PART comprising of unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at site, trial run at site and carrying out performance guarantee / functional / Demonstration tests at site (As applicable), training of customer client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1										
2.2	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure-I).	Lot	1										
Notes		1) Bidder to note that total price indicated above at Column (11) minus service tax quoted at Column (9) of 1.0 shall be considered for evaluation & hence must be completed in all respect for the full scope defined & considering all terms and conditions agreed. Further Swachh Bharat Cess (i.e.0.5% of Service tax/rate) applicable on E&C price is not canvassable. Hence, this 0.5% component of cost on E&C Price shall be considered for Evaluation. 2) Total erection & commissioning charges including service tax should be minimum 20% of the total quoted package (excluding mandatory spares but including all taxes & freight), filling which the break-up of price shall be adjusted accordingly for ordering. 3) All deviations should be marked in Cost of withdrawal sheet (Annexure-II) only. Deviations marked elsewhere other than 'cost of withdrawal sheet' shall not be taken into cognizance											

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PRICE FORMAT FOR FOREIGN BIDDERS																						
NAME OF PROJECT:			4X270 MW BHADRAHRI TPS																			
NAME OF PACKAGE:			CW, RW AND PW GAS CHLORINATION PLANT																			
TECHNICAL SPECIFICATION:			PE-TS-411-174A-A001																			
			IMPORTED ITEMS (Supply not from Indian Territory)										INDIGENOUS ITEMS (Supply from Indian Territory)					TOTAL		EAC		GRAND TOTAL
S. No.			DESCRIPTION		UNIT	QTY	C&F Mumbai Sea Port Price (including seaworthy packing) (Currency/INR)	Ocean / Marine Insurance	Custom Duty after availing CENVAT benefit if applicable (INR)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site Imported Items supply price (Currency + INR)	TOTAL EX-WORKS PRICE (INR)	ED including cess @ :-% (for self manufactured items) (INR)	CST @ :....% Against C-Form & E/IEZ or :....% whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @ :-% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	Total F.O.R site IMPORTED + INDIGENOUS SUPPLY (Currency+INR) INR	EAC, TRIAL RUN AND PERFORMANCE TEST CHARGES (INR)	SERVICE TAX @ :....% (INR)	EAC, TRIAL RUN AND PERFORMANCE TEST CHARGES INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND EAC WITH SERVICE TAX. (INR)	
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART : SERVICES PART & MAANDATORY SPARES comprising of design (i.e. Preparation and submission of drawing/ documents including "As Built" drawings and O&M Manuals) , engineering, manufacture, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & blades (as applicable), till laborers & consumables, material handling, erection, commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee / Demonstration tests at site (as applicable), obtaining CCQE approval, training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.				Set	1		BY BHEL									11=7+8+9+10	12=6+11	13	14	15=13+14	16=12+15
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.																					
2.1	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART comprising of design (i.e. Preparation and submission of drawing/ documents including "As Built" drawings and O&M Manuals) , engineering, manufacture, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & blades (as applicable), till laborers & consumables, material handling, erection, commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee / Demonstration tests at site (as applicable), obtaining CCQE approval for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.				Set	1		BY BHEL														
2.2	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for the SERVICES PART comprising of unbidding, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at site, trial run at site and carrying out performance guarantee /functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.				Set	1																
2.2	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure -1).				Lot	1		BY BHEL														
Notes	1) Bidder to note that total price indicated above at Column (16) minus service tax quoted at Column (14) of 1.0 shall be considered for evaluation & hence must be completed in all respect for the full scope defined & considering all terms and conditions agreed. Further Swachh Bharat Gas (i.e.0.5% of Service tax rate) applicable on E&C price is not cessable. Hence, this 0.5% component of cess on E&C Price shall be considered for Evaluation.																					
2) Total erection & commissioning charges including service tax should be minimum 20% of the total quoted package (including mandatory spares but including all taxes & freight), falling within the break-up of price shall be adjusted accordingly for ordering.																						
3) All deviations should be marked in Cost of withdrawal sheet (Annexure-II) only. Deviations marked elsewhere other than 'cost of withdrawal sheet' shall not be taken into cognizance																						

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SUGGESTED PRICE FORMAT FOR INDIAN BIDDERS									
ANNEXURE-I									
LIST OF MANDATORY SPARES									
NAME OF PROJECT:			4X270 MW BHADRADRI TPS		NIT REF :- E-5609/2017 Dated 06.05.2017				
NAME OF PACKAGE:			CW, RW AND PW GAS CHLORINATION PLANT						
TECHNICAL SPECIFICATION:			PE-TS-411-174A-A001						
S. N.	DESCRIPTION	UNIT	QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED @% (INR)	CST/VAT @% AGAINST FORM 'C' /EI/EII (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @... % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
			1	2	3	4	5	6	7=3+5+6+4
A MANDATORY SPARE FOR MECHANICAL ITEMS									
1	CENTRIFUGAL PUMP (for each type, size and rating)								
a)	Impeller Complete Assembly	Sets	2 Sets						
b)	Shaft Sleeve	Sets	2 Sets						
c)	Wearing rings – Impeller for each type (if applicable)	Set	1 Set						
d)	Wearing rings – Casing for each type (if applicable)	Set	1 Set						
e)	Shaft for each type	Set	1 Set						
f)	Stuffing box for each type	Set	1 Set						
g)	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	Set	1 Set						
h)	Gland , Packing & Gland Assembly for each type	Set	1 Set						
i)	Complete Set of Pump Bearing	Sets	2 Sets						
j)	Motor Bearing	Sets	2 sets						
2	BLOWERS (for each type, size and rating)								
a)	Rotating Assembly	Sets	2 sets						
b)	Motor Bearing	Sets	2 sets						
3	Washer for isolating liquid tonner	Nos.	200 nos.						
4	Flexible Coiled copper tubes	Nos.	5 nos.						
Note: One set consists of quantity required for complete replacement for one pump									
5 VALVES AND PIPING									
a)	Piping valves & traps - Complete assembly	%	5% or min. 1 no. (whichever is more) for each size, type & rating for total population						
B MANDATORY SPARE FOR ELECTRICAL AND C & I ITEMS									
1	Mandatory Spares for Temperature Elements and Thermo wells								
a)	Thermocouple / RTD elements (10% of each type and length of elements, or a minimum of one number, whichever is more.)	Lot	2 Lot						
b)	Thermo wells for each type of temperature sensors (10% or a minimum of one for each type, whichever is more.)	Lot	2 Lot						
2	Mandatory Spares for Electronic Transmitters (for pressure, DP, Flow, level, Temperature) and Electrical Transducers.								
a)	Transmitters and Electrical Transducers (10% of total number of offered for each model and type for the project or a minimum of one number, whichever is more)	Lot	2 Lot						
3	Mandatory spares for local gauges/switch (for Pressure, DP, Temperature, Flow, level, etc.)								
a)	Local gauges/ Switch (for Pressure, DP, Temperature, Flow, level, etc.) (10% of total number of instruments offered for each model and type for the project or a minimum of one number, whichever is more.)	Lot	2 Lot						
4	Programmable Logical Control (PLC)								
a)	Function controller and control modules (10% of number for each type or minimum of 4 number for each type whichever is high.)	Lot	2 Lot						
b)	Process I/O cards and drive modules (10% of the number of cards offered for the project from each category.)	Lot	2 Lot						
c)	All other type of electronic modules like CPU of workstation, Power supply modules, communication modules, modules for Data highway / modules for LAN, controllers not covered above (10% of each type or minimum of 2 nos. of each type whichever is more.)	Lot	2 Lot						
d)	All cards, controllers, lamp and other components used in LVS.	Lot	2 Lot (10%)						
e)	Control logic power supply fuses at each current rating (Three times the one hundred percent spare replacement).	Lot	2 Lot						
f)	Electric to pneumatic converters (10% of each type utilized with automatic control system using pneumatic drives or a minimum of one of each type, whichever is more.)	Lot	2 Lot						
g)	Plug-in type keyboard	Nos.	2 No. of each type						
h)	Dot matrix Printer	Nos.	2 No.						
i)	CRT	Nos.	2 No.						
j)	DVDs	Nos.	40 Nos.						
k)	Printer ribbons /inking mechanism for colour printer.	Nos.	20 Nos.						
l)	Ribbons for dot matrix printer.	Nos.	60 Nos.						
m)	Data highway cable with adequate connectors.	Meters	500 meters						
n)	Hard disc drive unit as offered for system complete with accessories.	Nos.	2 Nos.						
o)	Interface cables for each type	Sets	4 Sets						
p)	Power supply modules of each type and rating	Lot	2 Lot (10%)						
q)	Interposing / coupling relays of each type.	Lot	2 Lot (5% of total quantity)						
6 MANDATORY SPARES FOR UN-INTERRUPTIBLE POWER SUPPLY SYSTEM									
a)	Fuses (3 times, the one hundred percent spare replacement fuses shall be furnished with each panel board.)	Lot	2 Lot						
b)	Electronic modules for UPS, Charger, static switch & stabilizer and DC power supply system with each set consisting of at least one number of each type of electronic module for inverters, chargers, static switch, stabilizer etc.	Set	2 Set						
c)	Battery cells	Lot	2 Lot (10%)						
d)	Thyrister without heat sink	Lot	2 Lot (10%)						
e)	Semiconductor fuse	Lot	2 Lot (10%)						
7 MANDATORY SPARES FOR CONTROL PANELS / DESKS									
a)	Crimping Pins	Rolls	2 Rolls						
b)	Bulbs for indicating lights (Three times the one hundred percent spare replacement)	Lot	2 Lot						
c)	Control circuit fuses of each current rating (Three times, the one hundred percent spare replacement)	Lot	2 Lot						
d)	Push buttons, electrical control switches and illuminated push buttons etc.	Lot	Lot (20%)						
C LIST OF MANDATORY SPARES FOR ELECTRIC HOIST AND CHAIN PULLEY BLOCK									
1	ELECTRIC HOIST (for each type and rating, hoists)								
a)	Bearings for long travel wheels	Sets	2 sets						
b)	Bearings for gear boxes for each type of hoist	Sets	2 sets						
c)	Break liners for all the brakes	%	100% of total population of each type & size						
d)	Oil seals	%	100% of total population of each type, size rating						
e)	Brake springs for all brakes	%	100% of total population of each type, size rating						
f)	Wire ropes for hooks	%	100% installed on each crane and hoist						
g)	Solenoid coils for brakes	Sets	2 sets						
h)	Overload relay for motors	Nos.	2 Nos.						
i)	Limit switches for hoists and travel mechanisms	Sets	2 sets						
j)	Spare motors for hoists	Nos.	2 Nos.						
k)	Long travel machinery								
i.	Gear wheel	Set	1 set						
ii.	Internal clip	Nos.	2 Nos.						
iii.	Pinion	No.	1 No.						
2	Electrical Items for ELECTRIC HOIST								
2.1	415 Volt Motor (Upto 30 KW Rating)								
a)	Driving End & Non-Driving End Bearing	Set	3 Set for each type and rating of Motor						
b)	Cooling Fan	Nos.	2 Nos. for each type and rating of Motor						
c)	Motor Terminal Block	Nos.	5 Nos. for each type and rating of Motor						
d)	Complete Set of Coupling	Set	1 Set of each application						
3	C&I Items for ELECTRIC HOIST								
a)	PLC	NA	NA						
b)	Back-up panel mounted devices (Selector switches/ Push buttons/ Indicators etc.	%	5% of installed capacity						
c)	Lamps/ LEDs	%	10% of the total quantity						
d)	Blank Tiles	%	10% of installed capacity						
e)	MCBs	%	10% of each type & rating						
f)	Fuses/ Fuse holder	%	10% of each type & rating						
4	Chain pulley block (for each capacity and type of chain pulley blocks)								
a)	Load chain wheel	No.	1 No.						
b)	Load chain stripping fork	Nos.	5 Nos.						
c)	Hand chain wheel	Nos.	2 Nos.						
d)	Ratchet pawl	No.	1 No.						
e)	Locking ratchet wheel	Nos.	2 Nos.						
f)	Guide roller	Nos.	2 Nos.						
g)	Brake disc	Nos.	2 Nos.						
NOTES FOR ELECTRIC HOIST AND CHAIN PULLEY BLOCK: 1. "One (1) Set" and "One (1) set of each type & size" is defined as 100% requirement for one crane/hoist for the entire hoists of similar size & capacity. If two (2) cranes/hoist are of same capacity, the total quantity for both cranes/hoist shall be 100% quantity required for one hoist. 2. 100% of total population of each type, size and rating is defined as 100% requirement for one crane/hoist. 3. Applicable spares from the above list shall be provided as per specific design of the hoist supplier.									
NOTES FOR CHLORINATION PLANT : 1) Unless stated otherwise, a "set" or "Lot" means items required for complete replacement in one equipment of each type / size/ range. 2) Wherever quantity has been specified as percentage (%), it shall mean percentage (%) of the population of the item required for station (project), unless specified otherwise.									
Note: Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification apart from specified above, same shall be deemed to have been covered in bidders scope of supply.									

Total

Sealed Envelope