



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)

**Project Engineering
Management**

Ref. Enquiry No.: PE/PG/APG/E-5432/2016 Dtd.: 12.01.2017

DUE DATE

03.02.2017

BY 02:00 P.M.

Subject: Tender Enquiry of **AUX PRDS** as per Technical Specification No. **PE-TS-419/420-142-N101 (Rev.00)** for 1x800 MW Krishnapattanam & 1x800 MW Vijayawada projects.

1. BHEL invites offers from reputed Vendors (refer Pre-Qualification Requirement and other requirements given with enquiry letter uploaded on our websites) for Design, Manufacturing, Assembly, Inspection and Testing, Supplies, Painting, Packing for transportation & delivery complete with Commissioning spares/Special Tools and Tackles/including all Mandatory spares, (if required) accessories & equipments as specified & as necessary as per specification for 1x800 MW Krishnapattanam & 1x800 MW Vijayawada projects. Detailed scope of work and equipment details shall be as per technical specification and other details hosted on BHEL / BHEL-PEM websites.

2. Your best offer should be submitted in two parts strictly as per Clause-2.0 of the "Instructions to Bidders" of GCC Rev 06, in sealed covers for the under mentioned equipment/system.

ITEM DESCRIPTION	QUANTITY	DELIVERY
AUX PRDS	As per BOQ & technical specification No. PE-TS-419/420-142-N101 (Rev.00) , Rev 00 for 1x800 MW NTPS Vijayawada & 1x800 MW APPDCL Krishnapattanam.	As per NIT clause no. 18.

3. Your best quotation/offer for the above requirement, in line with our terms and conditions, should either be delivered in person or sent by **COURIER/REGISTERED POST**, to the following address only:

**Tender Box, Tender Room, Ground Floor, PPEI Building
(Behind Reception Desk)
C/o Deenesh Kumar/Astt. Engr. or Ashutosh Sharma/Sr. Engr.,
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRDI & ESI Complex
Plot No. 25, Sector- 16A, NOIDA-201301, U.P., INDIA,
Email:-dkchauhan@bhhelpem.co.in, ashutosh@bhhelpem.co.in;
Ph. No.:- 0120-436815; 0120-4363510**

4. It shall be the responsibility of the bidder to ensure that the tender is delivered on or before the **due date by 02:00 PM**. The offer has to be deposited in tender box only. Part-I bids shall be opened at **03:30 PM** on the due date in the presence of authorized representatives of the bidders, who may like to be present.
5. **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.**
6. **TERMS AND CONDITIONS:** - Please refer GCC Rev-06 which is available on www.bhhelpem.com. Bidders are requested to kindly download the same. Bidders are advised to go through the same while submitting the offers.

Ashutosh Sharma

ASHUTOSH SHARMA,
Sr. Engineer / PG-I-1,
BHEL/PS-PEM,
POWER PROJECT ENGINEERING INSTITUTE,
PLOT NO. 25, SECTOR - 16A, NOIDA (UP)
(OFF) 0120-4323510. 9953038740

Regd. Office:
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7. Enquiry No., due date etc. must be legibly superscribed on the sealed envelopes as per clause no. 2.0 of "Instructions to Bidders" of GCC Rev 06.
8. Offers should be submitted in two parts in two separate sealed covers as follows:
- **Part-I: Techno-Commercial Bid:** Comprising of technical offer, Annexure-I, Commercial terms and conditions, unpriced copy of price bid and Annexure-II of GCC Rev.06 for DEVIATION SHEET (cost of withdrawal), PQR documents in (02) sets.
 - **Part-II: Price Bid:** Containing prices, cost of withdrawal of deviation as per Annexure-II, to be submitted in original, strictly, as per price schedule of BHEL for complete scope of Tender enquiry.

Tenders shall be submitted strictly in accordance with the requirements of the above tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately as per Annexure II of GCC Rev 06.

9. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
10. Unsolicited fresh/revised Price Bids shall not be entertained.
11. 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.
12. 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).
13. In the event of any contradiction in the terms and conditions mentioned in the Special Conditions of the Contract (SCC) and those mentioned elsewhere, stipulations mentioned in the Special Conditions of the Contract shall prevail.
14. All correspondence, thereof, shall be addressed to the undersigned by name & designation and sent at the following address:

Mr. Deenesh Kumar/ Astt.Engr./PG1-1
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: Deenesh Kumar/ PG-I-1
E-MAIL: dkchauhan@bhelpem.co.in
Ph. No. 0120-4368815

Mr. Ashutosh Sharma/ Sr.Engr./PG1-1
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: Ashutosh Sharma / PG-I-1
E-MAIL: ashutosh@bhelpem.co.in
Ph. No. 0120-4363510

15. Instructions Regarding Centralised Tender Room:

- a) Bidders best quotation/offer containing Part-I & II offers in separate covers, preferably cloth

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lined envelopes, Properly marked enquiry No., due date and time, should either be delivered in person or sent by courier / Registered post to the address mentioned on the first page. Price bids to be enclosed in separate sealed envelopes for both projects.

- The dispatch department shall not accept any tender in torn condition and return the same to the courier immediately with the itamping "Returned to Sender-Package Damaged". Offers in damaged condition will not be considered and no request for extension on this account will be considered.
- Bidder's representative shall deposit the offer in tender box only.
- Bidders shall be allowed in the tender room in area identified for bidders and only one authorized representative from each bidder shall be allowed.
- Bidder shall not be allowed to carry mobile/camera/ laptop in the tender room. The same shall have to be deposited at security in advance and taken back after tender opening.
- Details of offers shall be read out to bidders and in no case the offers shall be handed over to any of the bidders for noting down.
- Please ensure tender submission, minimum 1 hour before scheduled tender opening time. Late tenders shall not be accepted.

16. **Reverse Auction:** 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)."

As a reminder to the bidders, system will flash following message (in RED Colour) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

Detailed guidelines of reverse auction 2016 are available in "information section" of www.bhel.com.

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17. Pre-Qualifying Requirement

Bidders who fulfil PRE-QUALIFICATION REQUIREMENT (PQR) criteria are eligible to participate in this tender. Bidders are requested to provide the details as per PQR. Bids of only those bidders shall be evaluated who shall meet the PQR.

18. Delivery:

For Main Supply:-

Six (06) months from the date of drgs. /docs. approval in CAT-I issued by BHEL/CUSTOMER. This is subject to bidder's 1st submission of drawing/docs within 3 weeks from the date of P.O. Vendor to re-submit documents within 10 days only, taking care of all the comments of BHEL. BHEL shall approve all drgs./ docs. in Cat-I in total 2 months' time from the date of P.O."

For Mandatory Spares:-

"For Mandatory spares, delivery shall be as per SCC Rev.00".

19. If any bidder has mentioned the term **Not Applicable / Not required / Not Quoted** in BHEL price format. The bidder needs to substantiate the same. If the same item will be required in future for the system same will be supplied free of cost by bidder.
20. Deviations (Commercial as well as Technical) from NIT are generally not acceptable. In case there are deviations from NIT, the tenderer shall give cost of withdrawal of such deviations in sealed cover as per annexure-II of GCC Rev 06. [Deviation Sheet (Cost of withdrawal)].
21. Bidder to note that this is a conditional Open Tender enquiry and the price bid (Part-II) opening/ RA participation shall be subjected to following criterion:
- a) Techno-commercial qualification / recommendation of bidder by the BHEL-PEM.
 - b) **Approval of bidder by customer**
Approval shall be taken up by BHEL with customer based on the credentials / reference list. Hence, bidders are requested to submit the following (a part of their credentials) on or before Part-1 opening / due date in two CD's :-
 - 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 /equipments.
 - iv) Copies of major supply order executed by the vendor.
22. Note: Non-registered Vendors who wish to apply for registration in BHEL-PEM through Online Registration Portal available at www.bhhelpem.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.
23. Any other taxes & Duties applicable on the date of bid but not quoted by the bidders shall be to bidder account.
24. Indian Bidders have to quote freight charges in percentage of their quoted Total Ex-works prices.

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Sharma

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25. Indian Bidders have to quote freight charges in percentage of their quoted Total Ex-works prices.
26. In case of foreign bidders, bidders have to quote the prices on C & F Basis instead of FOB Basis. Further, foreign bidder to please note the following points :-
- Shipped on board* date mentioned on the clean Bill of Lading or Air way Bill, shall be treated as the date of shipment/ Dispatch for calculation of LD.
 - Usance period (90 days) of the L/C shall start from the date of Bill of lading/Air Way Bill.
 - Bill of Lading shall be considered as equivalent document (refer clause 9.7.1 b OF GCC Rev-06) for recognition of dispatch.
 - For claiming payment under clause 9.1.1 and 9.2.1 Bill of lading shall be considered instead of receipted LR (refer clause 9.7.2 b of GCC rev-06)
 - Freight is to be quoted as inclusive in basic price by vendor and is not to be quoted separately.
 - Insurance for evaluation purposes shall be @ 0.1 % of quoted C&F price.
 - There will be no change in MRC payment.
27. **Evaluation shall be done on project wise. (Total cost to BHEL i.e. FOR site price). Separate offers are required for each project i.e. Techno-Commercial bids and Price bids should be submitted separately for separate projects. Enquiry No. & Name of the project/package is to be clearly mentioned in BOLD LETTERS on top of each envelope submitted.**
28. 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.
29. Foreign and indigenous bidders participating through future open tender tender will necessarily have to buy class III DSCs (Digital Signature Certificate) issued by the certifying authorities in India. Basic procedure /checklist shall be upload on www.bhel.com for participating in future tender enquires through e procurement.
30. Payment terms shall be as per of GCC Rev-06.
31. All corrigenda, addenda, amendments, time extensions, clarifications, etc to the tender are be hosted on BHEL website (www.bhel.com), BHEL-PEM website (www.bhelpem.com) & CPP Portal. Bidders should regularly visit websites to keep themselves updated.
32. All the tender documents shall automatically become a part of the Order/Contract after its finalization.

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33. **Inspection Agency:-**

For Domestic supplier: - Vendor shall give inspection call on BHEL-CQS website to applicable inspection agency with a copy of inspection call to BHEL-PEM for arranging customer participation (If applicable) in inspection/Joint inspection on the proposed date with the advance notice of 15 working days. Inspection charges shall be paid by BHEL-PEM.

34. **For International supplier:-**

In case of imported supplies, advance notice of 30 days for participation in inspection (if applicable, in line with approved QAP / Customer hold point) shall be given by vendor. Third party inspection agency shall be informed to vendor by BHEL-PEM.

Test certificates/Inspection report (as applicable) duly accepted by the inspection agency in line with approved QAP/Customer hold point shall be submitted to BHEL/PEM Noida. The above inspection report/Test certificate shall be reviewed by PEM/Engg. In line with technical specification and approved data sheets and then sent to Customer for their clearance. The material dispatch clearance certificate (MDCC) shall be given to the foreign supplier (or their representative in India) through BHEL/PEM after acceptance of above test certificate by customer. Inspection charges shall be borne by vendor and same shall be included in their offer to BHEL/PEM.

35 Bank Guarantee Format as enclosed in NIT as per Annexure – A to be followed.

36 CIF is available for subject package.

37 Foreign Suppliers & Indian agents of foreign suppliers: Please refer our website <http://www.bhhelpem.com/Tenders.aspx> for details.

38 All the terms & condition shall be applicable as per SCC (Rev. 0) of Project, NIT, GCC Rev-06 & technical specification No. PE-TS-419/420-142-N101 (Rev.00).

NOTE:-Please note that all correspondences from BHEL-PEM before Part-1 opening, shall also be part of NIT.

Thanking you,

Yours faithfully,

For and on behalf of BHEL ,

Ashutosh Sharma

ASHUTOSH SHARMA

(Sr. Engineer / Project Group-I-1)

Enclosure:

- Enquiry Terms & Conditions.
- BOQ cum Price Format (Prices should be quoted in this format only) without making any changes
- Technical Specifications no PE-TS-419/420-142-N101 (Rev.00).
- Technical PQR.
- SCC Rev 00 of Vijaywada TPS & Krishnapattanam.
- BHEL fraud prevention policy. (As available on www.bhhelpem.com.)
- New BG format.
- NEW RA guideline. (As available on www.bhhelpem.com.)

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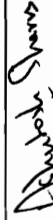


CIF CONTENT

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Handwritten signature: *Samuel*

SL NO	ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT EX-WORKS PRICE (DULY PACKED) (Rs)	TOTAL EX-WORKS PRICE (DULY PACKED) (Rs)	ED (including CESS) @ (Rs)	CST/VAT @ (Rs)	FREIGHT CHARGES (In % of Ex-works price) (Rs)	TOTAL F.O.R. SITE PRICE (Rs)
1	2	3	4	5	6=4X5	7	8	9	10=(6+7+8+9)
CONTROL VALVES & ACEESORIES									
MAIN SUPPLY									
A	Total price for Design, Engineering, Manufacture, Assembly, Inspection, Testing, Proper Packing for Transportation and Dispatch to site of auxiliary steam pressure reducing and desuperheating stations complete with controls valves and all accessories including commissioning spares and Mandatory Spares as specified and necessary as per technical specification PE-TS-419/420-142-N101								
A.1	Combined Type Aux. Steam High Capacity Pr. Reducing Valve (AS-22)	NO.	1						
A.2	Low Capacity Pressure Reducing Valve (from CRH line) (AS-26)	NO.	1						
A.3	HC PRDS Spray Pressure Control Valve (CDV-138)	NO.	1						
A.4	ORDERING VALUE (A.1 to A.3)								
B	Mandatory spare as per the list furnished under cl. No.1.5 (iv) for Section-1, Page 6 of 17 of tech Spec, Item wise breakup with item wise price to be given. Price not to be included in clause A.4 above.								
B.1	Mandatory Spares for High Capacity PRDS Sys (AS-22)								
a)	Pilot Relay	NO.	1 set for each valve						
b)	Actuator Diaphragm	NO.	1 no. for each valve						
c)	Feedback Linkage	NO.	1 no. for each valve						
d)	Smart Positioner	NO.	10% of total quantity of each model/type						
e)	I/P Converter	NO.	10% of total quantity						
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type						
g)	Valve Disc	NO.	2 Sets each size, rating, type						
h)	Valve Spindle	NO.	2 Sets each size, rating, type						



i)	Valve Seat	NO.	2 Sets each size, rating, type						
j)	Bush	NO.	2 Sets each size, rating, type						
k)	Guide	NO.	2 Sets each size, rating, type						
l)	Guide Bush	NO.	2 Sets each size, rating, type						
m)	Coupling Nut	NO.	2 Sets each size, rating, type						
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type						
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type						
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type						
q)	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type						
B.2	Mandatory Spares for LC PRV Sys (AS-26)								
a)	Pilot Relay	NO.	1 set for each valve						
b)	Actuator Diaphragm	NO.	1 no. for each valve						
c)	Feedback Linkage	NO.	1 no. for each valve						
d)	Smart Positioner	NO.	10% of total quantity of each model/type						
e)	I/P Converter	NO.	10% of total quantity						
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type						
g)	Valve Disc	NO.	2 Sets each size, rating, type						
h)	Valve Spindle	NO.	2 Sets each size, rating, type						
i)	Valve Seat	NO.	2 Sets each size, rating, type						
j)	Bush	NO.	2 Sets each size, rating, type						
k)	Guide	NO.	2 Sets each size, rating, type						
l)	Guide Bush	NO.	2 Sets each size, rating, type						
m)	Coupling Nut	NO.	2 Sets each size, rating, type						
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type						
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type						

Ashutosh Sharma

p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type							
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type							
B.3	Mandatory Spares for HC PRDS Spray Pressure Control Valve (CDV-138)									
a)	Pilot Relay	NO.	1 set for each valve							
b)	Actuator Diaphragm	NO.	1 no. for each valve							
c)	Feedback Linkage	NO.	1 no. for each valve							
d)	Smart Positioner	NO.	10% of total quantity of each model/type							
e)	I/P Converter	NO.	10% of total quantity							
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type							
g)	Valve Disc	NO.	2 Sets each size, rating, type							
h)	Valve Spindle	NO.	2 Sets each size, rating, type							
i)	Valve Seat	NO.	2 Sets each size, rating, type							
j)	Bush	NO.	2 Sets each size, rating, type							
k)	Guide	NO.	2 Sets each size, rating, type							
l)	Guide Bush	NO.	2 Sets each size, rating, type							
m)	Coupling Nut	NO.	2 Sets each size, rating, type							
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type							
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type							
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type							
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type							
B.4	ORDERING VALUE (B.1 to B.3)									

NOTE-

1. PLEASE REFER TECHNICAL SPECIFICATION PE-TS-419/420-142-N101.

2. EACH CONTROL VALVE SHALL BE SUPPLIED WITH THE ACCESSORIES SPECIFIED IN THE RELEVANT DATA SHEETS IN TECHNICAL SPECIFICATION (i.e. commissioning Spares (Gasket+ Gland (stem) packing) & SS Tubing)

3. Please provide separate annexure of break of prices for commissioning spares.

Adwaita Sharma

Price Format For Foreign Bidders

SL NO	ITEM DESCRIPTION	TOTAL QTY. (NOS.)	UNIT COST on C & F (Cost & Freight) BASIS (at Indian Port.....) (Currency)	TOTAL COST on C & F (Cost & Freight) BASIS (at Indian Port.....) (Currency)
1	2	3	4	5
A	Break-up of Prices of Main Supply:-			
A.1	Combined Type Aux. Steam High Capacity Pr. Reducing Valve (AS-22)	1		
A.2	Low Capacity Pressure Reducing Valve (from CRH line) (AS-26)	1		
A.3	HC PRDS Spray Pressure Control Valve (CDV-138)	1		
A.4	TOTAL PRICE (A.1 to A.3)			
B	Mandatory spare as per the list furnished under cl. No.1.5 (iv) for Section-1, Page 6 of 17 of tech Spec, Item wise breakup with item wise price to be given. Price not to be included in clause A.4 above.	1		
B.1	Mandatory Spares for High Capacity PRDS Sys (AS-22)			
a)	Pilot Relay	1 set for each valve		
b)	Actuator Diaphragm	1 no. for each valve		
c)	Feedback Linkage	1 no. for each valve		
d)	Smart Positioner	10% of total quantity of each model/type		
e)	I/P Converter	10% of total quantity		
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		
g)	Valve Disc	2 Sets each size, rating, type		
h)	Valve Spindle	2 Sets each size, rating, type		
i)	Valve Seat	2 Sets each size, rating, type		
j)	Bush	2 Sets each size, rating, type		
k)	Guide	2 Sets each size, rating, type		
l)	Guide Bush	2 Sets each size, rating, type		
m)	Coupling Nut	2 Sets each size, rating, type		
n)	Actuator Piston with Rod & Seal	2 Sets each size, rating, type		
o)	Control valve stem packing and spare operator moulded rubber diaphragms	1 set for each size, rating, type		
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	1 set for each size, rating, type		
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	10% of total quantity spare with minimum 1 no. for each size, rating, type		
B.2	Mandatory Spares for LC PRV Sys (AS-26)			
a)	Pilot Relay	1 set for each valve		
b)	Actuator Diaphragm	1 no. for each valve		
c)	Feedback Linkage	1 no. for each valve		
d)	Smart Positioner	10% of total quantity of each model/type		
e)	I/P Converter	10% of total quantity		
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		
g)	Valve Disc	2 Sets each size, rating, type		

h)	Valve Spindle		2 Sets each size, rating, type		
i)	Valve Seat		2 Sets each size, rating, type		
j)	Bush		2 Sets each size, rating, type		
k)	Guide		2 Sets each size, rating, type		
l)	Guide Bush		2 Sets each size, rating, type		
m)	Coupling Nut		2 Sets each size, rating, type		
n)	Actuator Piston with Rod & Seal		2 Sets each size, rating, type		
o)	Control valve stem packing and spare operator moulded rubber diaphragms		1 set for each size, rating, type		
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.		1 set for each size, rating, type		
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type		10% of total quantity spare with minimum 1 no. for each size, rating, type		
B.3	Mandatory Spares for HC PRDS Spray Pressure Control Valve (CDV-138)				
a)	Pilot Relay		1 set for each valve		
b)	Actuator Diaphragm		1 no. for each valve		
c)	Feedback Linkage		1 no. for each valve		
d)	Smart Positioner		10% of total quantity of each model/type		
e)	I/P Converter		10% of total quantity		
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc		2 Sets each size, rating, type		
g)	Valve Disc		2 Sets each size, rating, type		
h)	Valve Spindle		2 Sets each size, rating, type		
i)	Valve Seat		2 Sets each size, rating, type		
j)	Bush		2 Sets each size, rating, type		
k)	Guide		2 Sets each size, rating, type		
l)	Guide Bush		2 Sets each size, rating, type		
m)	Coupling Nut		2 Sets each size, rating, type		
n)	Actuator Piston with Rod & Seal		2 Sets each size, rating, type		
o)	Control valve stem packing and spare operator moulded rubber diaphragms		1 set for each size, rating, type		
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.		1 set for each size, rating, type		
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type		10% of total quantity spare with minimum 1 no. for each size, rating, type		
		TOTAL PRICE (B.1 to B.3)			
		TOTAL PRICE FOR EVALUATION			

NOTE:

1. PLEASE REFER TECHNICAL SPECIFICATION PE-TS-419/420-142-N101.

2. EACH CONTROL VALVE SHALL BE SUPPLIED WITH THE ACCESSORIES SPECIFIED IN THE RELEVANT DATA SHEETS IN TECHNICAL SPECIFICATION (i.e. commissioning Spares (Gasket+ Gland (stem) packing) & SS Tubing)

3. Please provide separate annexure of break of prices for commissioning spares.

Adnan Shams

Price format for Indian Bidder

SL NO	ITEM DESCRIPTION	UNIT	TOTAL QTY.	UNIT EX-WORKS PRICE (DULY PACKED) (Rs)	TOTAL EX-WORKS PRICE (DULY PACKED) (Rs)	ED (including CESS) @ (Rs)	CST/VAT @ (Rs)	FREIGHT CHARGES (In % of Ex-works price) (Rs)	TOTAL F.O.R. SITE PRICE (Rs)
1	2	3	4	5	6=4X5	7	8	9	10=(6+7+8+9)
CONTROL VALVES & ACEESORIES									
MAIN SUPPLY									
A	Total price for Design, Engineering, Manufacture, Assembly, Inspection, Testing, Proper Packing for Transportation and Dispatch to site of auxiliary steam pressure reducing and desuperheating stations complete with controls valves and all accessories including commissioning spares and Mandatory Spares as specified and necessary as per technical specification PE-TS-419/420-142-N101								
A.1	Combined Type Aux. Steam High Capacity Pr. Reducing Valve (AS-22)	NO.	1						
A.2	Low Capacity Pressure Reducing Valve (from CRH line) (AS-26)	NO.	1						
A.3	HC PRDS Spray Pressure Control Valve (CDV-138)	NO.	1						
A.4	ORDERING VALUE (A.1 to A.3)								
B	Mandatory spare as per the list furnished under cl. No.1.5 (iv) for Section-1, Page 6 of 17 of tech Spec, Item wise breakup with item wise price to be given. Price not to be included in clause A.4 above.								
B.1	Mandatory Spares for High Capacity PRDS Sys (AS-22)								
a)	Pilot Relay	NO.	1 set for each valve						
b)	Actuator Diaphragm	NO.	1 no. for each valve						
c)	Feedback Linkage	NO.	1 no. for each valve						
d)	Smart Positioner	NO.	10% of total quantity of each model/type						
e)	I/P Converter	NO.	10% of total quantity						
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type						
g)	Valve Disc	NO.	2 Sets each size, rating, type						
h)	Valve Spindle	NO.	2 Sets each size, rating, type						
i)	Valve Seat	NO.	2 Sets each size, rating, type						

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j)	Bush	NO.	2 Sets each size, rating, type						
k)	Guide	NO.	2 Sets each size, rating, type						
l)	Guide Bush	NO.	2 Sets each size, rating, type						
m)	Coupling Nut	NO.	2 Sets each size, rating, type						
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type						
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type						
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type						
q)	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type						
B.2	Mandatory Spares for LC PRV Sys (AS-26)								
a)	Pilot Relay	NO.	1 set for each valve						
b)	Actuator Diaphragm	NO.	1 no. for each valve						
c)	Feedback Linkage	NO.	1 no. for each valve						
d)	Smart Positioner	NO.	10% of total quantity of each model/type						
e)	I/P Converter	NO.	10% of total quantity						
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type						
g)	Valve Disc	NO.	2 Sets each size, rating, type						
h)	Valve Spindle	NO.	2 Sets each size, rating, type						
i)	Valve Seat	NO.	2 Sets each size, rating, type						
j)	Bush	NO.	2 Sets each size, rating, type						
k)	Guide	NO.	2 Sets each size, rating, type						
l)	Guide Bush	NO.	2 Sets each size, rating, type						
m)	Coupling Nut	NO.	2 Sets each size, rating, type						
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type						
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type						
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type						

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q)	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type						
B.3	Mandatory Spares for HC PRDS Spray Pressure Control Valve (CDV-138)								
a)	Pilot Relay	NO.	1 set for each valve						
b)	Actuator Diaphragm	NO.	1 no. for each valve						
c)	Feedback Linkage	NO.	1 no. for each valve						
d)	Smart Positioner	NO.	10% of total quantity of each model/type						
e)	I/P Converter	NO.	10% of total quantity						
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	NO.	2 Sets each size, rating, type						
g)	Valve Disc	NO.	2 Sets each size, rating, type						
h)	Valve Spindle	NO.	2 Sets each size, rating, type						
i)	Valve Seat	NO.	2 Sets each size, rating, type						
j)	Bush	NO.	2 Sets each size, rating, type						
k)	Guide	NO.	2 Sets each size, rating, type						
l)	Guide Bush	NO.	2 Sets each size, rating, type						
m)	Coupling Nut	NO.	2 Sets each size, rating, type						
n)	Actuator Piston with Rod & Seal	NO.	2 Sets each size, rating, type						
o)	Control valve stem packing and spare operator moulded rubber diaphragms	NO.	1 set for each size, rating, type						
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	NO.	1 set for each size, rating, type						
q)	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	NO.	10% of total quantity spare with minimum 1 no. for each size, rating, type						
B.4	ORDERING VALUE (B.1 to B.3)								
NOTE:									
PLEASE REFER TECHNICAL SPECIFICATION PE-TS-419/420-142-N101.									
EACH CONTROL VALVE SHALL BE SUPPLIED WITH THE ACCESSORIES SPECIFIED IN THE RELEVANT DATA SHEETS IN TECHNICAL SPECIFICATION (i.e. commissioning Spares (Gasket+ Gland (stem) packing) & SS Tubing)									
Please provide separate annexure of break of prices for commissioning spares.									

Ashwath Sharma

Price Format For Foreign Bidders

SL NO	ITEM DESCRIPTION	TOTAL QTY. (NOS.)	UNIT COST on C & F (Cost & Freight) BASIS (at Indian Port.....) (Currency)	TOTAL COST on C & F (Cost & Freight) BASIS (at Indian Port.....) (Currency)
1	2	3	4	5
Total price for Design, Engineering, Manufacture, Assembly, Inspection, Testing, Proper Packing for Transportation and Dispatch to site of auxiliary steam pressure reducing and desuperheating stations complete with controls valves and all accessories including commissioning spares and Mandatory Spares as specified and necessary as per technical specification PE-TS-419/420-142-N101.				
A	Break-up of Prices of Main Supply:-			
A.1	Combined Type Aux. Steam High Capacity Pr. Reducing Valve (AS-22)	1		
A.2	Low Capacity Pressure Reducing Valve (from CRH line) (AS-26)	1		
A.3	HC PRDS Spray Pressure Control Valve (CDV-138)	1		
A.4	TOTAL PRICE (A.1 to A.3)			
B	Mandatory spare as per the list furnished under cl. No.1.5 (iv) for Section-1, Page 6 of 17 of tech Spec, Item wise breakup with item wise price to be given. Price not to be included in clause A.4 above.			
B.1	Mandatory Spares for High Capacity PRDS Sys (AS-22)			
a)	Pilot Relay	1 set for each valve		
b)	Actuator Diaphragm	1 no. for each valve		
c)	Feedback Linkage	1 no. for each valve		
d)	Smart Positioner	10% of total quantity of each model/type		
e)	I/P Converter	10% of total quantity		
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		
g)	Valve Disc	2 Sets each size, rating, type		
h)	Valve Spindle	2 Sets each size, rating, type		
i)	Valve Seat	2 Sets each size, rating, type		
j)	Bush	2 Sets each size, rating, type		
k)	Guide	2 Sets each size, rating, type		
l)	Guide Bush	2 Sets each size, rating, type		
m)	Coupling Nut	2 Sets each size, rating, type		
n)	Actuator Piston with Rod & Seal	2 Sets each size, rating, type		
o)	Control valve stem packing and spare operator moulded rubber diaphragms	1 set for each size, rating, type		
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	1 set for each size, rating, type		
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	10% of total quantity spare with minimum 1 no. for each size, rating, type		
B.2	Mandatory Spares for LC PRV Sys (AS-26)			
a)	Pilot Relay	1 set for each valve		
b)	Actuator Diaphragm	1 no. for each valve		
c)	Feedback Linkage	1 no. for each valve		
d)	Smart Positioner	10% of total quantity of each model/type		
e)	I/P Converter	10% of total quantity		
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		
g)	Valve Disc	2 Sets each size, rating, type		

Akhil Sharma

h)	Valve Spindle	2 Sets each size, rating, type	
i)	Valve Seat	2 Sets each size, rating, type	
j)	Bush	2 Sets each size, rating, type	
k)	Guide	2 Sets each size, rating, type	
l)	Guide Bush	2 Sets each size, rating, type	
m)	Coupling Nut	2 Sets each size, rating, type	
n)	Actuator Piston with Rod & Seal	2 Sets each size, rating, type	
o)	Control valve stem packing and spare operator moulded rubber diaphragms	1 set for each size, rating, type	
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	1 set for each size, rating, type	
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	10% of total quantity spare with minimum 1 no. for each size, rating, type	
B.3 Mandatory Spares for HC PRDS Spray Pressure Control Valve (CDV-138)			
a)	Pilot Relay	1 set for each valve	
b)	Actuator Diaphragm	1 no. for each valve	
c)	Feedback Linkage	1 no. for each valve	
d)	Smart Positioner	10% of total quantity of each model/type	
e)	I/P Converter	10% of total quantity	
f)	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type	
g)	Valve Disc	2 Sets each size, rating, type	
h)	Valve Spindle	2 Sets each size, rating, type	
i)	Valve Seat	2 Sets each size, rating, type	
j)	Bush	2 Sets each size, rating, type	
k)	Guide	2 Sets each size, rating, type	
l)	Guide Bush	2 Sets each size, rating, type	
m)	Coupling Nut	2 Sets each size, rating, type	
n)	Actuator Piston with Rod & Seal	2 Sets each size, rating, type	
o)	Control valve stem packing and spare operator moulded rubber diaphragms	1 set for each size, rating, type	
p)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	1 set for each size, rating, type	
q)	Solenoid valves, position transmitters, limit switches, I/P converters, positioners etc of each type	10% of total quantity spare with minimum 1 no. for each size, rating, type	
TOTAL PRICE (B.1 to B.3)			
TOTAL PRICE FOR EVALUATION			

NOTE-

1. PLEASE REFER TECHNICAL SPECIFICATION PE-TS-419/420-142-N101.

2. EACH CONTROL VALVE SHALL BE SUPPLIED WITH THE ACCESSORIES SPECIFIED IN THE RELEVANT DATA SHEETS IN TECHNICAL SPECIFICATION (i.e. commissioning Spares (Gasket+ Gland (stem) packing) & SS Tubing)

3. Please provide separate annexure of break of prices for commissioning spares.

Ashutosh Sharma

Asim Shah-