



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

Enq No.: E-4756/2015

DATE. 04.04.2015

NOTICE INVITING TENDER

DUE DATE
APR 28, 2015
11:30 P.M.

Subject: Tender Enquiry of **CONTROL VALVE** as per Technical Specification No. PE-TS-411-145-I 801 for 4x270MW Bhadradi (Manuguru) Project.

BHEL invites offers from reputed Vendors (Refer pre-qualifying requirements and other requirements given in tender enquiry letter uploaded on our websites) for Design, Manufacture, Inspection and Testing at manufacturer's works, proper packing for transportation and delivery to site of the Control Valves with Pneumatic Actuator along with Accessories, Start-up/Commissioning as mentioned in different sections of this Technical Specification No. PE-TS-411-145-I 801 for 4x270 MW BHADRADI (MANUGURU) TPS. Detailed scope of work & equipment details shall be as per technical specification & other details hosted on BHEL website.

Your offer shall be submitted in two parts strictly as per Clause-2.0 of the "Instructions to Bidders" of GCC, Rev. 06 in quintuplicate (5 sets), in sealed covers for the under mentioned equipment/system.

Item Description - CONTROL VALVES		
Sl. No.	Project	TECHNICAL SPECIFICATION NO.
1.	4x270MW Bhadradi (Manuguru) Project	PE-TS-411-145-I 801

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 Sanjeev Kumar, Asst. Engineer Gr-II, PG-II-2,
M/s. Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301,U.P.,INDIA

E-MAIL: sanjeev_k@bhhelpem.co.in
Ph. No. +91-120-4368590

It shall be the responsibility of the bidder to ensure that the tender is delivered on or before the due date by 11:30 AM (IST). The offer has to be deposited in tender box only. Part-I bids shall be opened at 12:00 PM (IST) on the due date in the presence of authorized representatives of the bidders, who may like to be present.

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.

1. Enquiry No., due date etc. must be legibly super-scribed on the sealed envelopes as per clause no. 2.0 of "Instructions to Bidders" of GCC, Rev. 06.
2. Offers should be submitted in two parts in two separate sealed covers as follows:
Part-I: TECHNO-COMMERCIAL BID Part-II: PRICE BID
For detailed instructions, please see clause no. 2.0 of "Instructions to Bidders" of GCC Rev. 06.

Please reply to:
PEM -Power Sector
PPEI Building,
HRD & ESI Complex,
Plot-25, Sector-16-A
NOIDA - 201301
Phone: 0120-4368590
Fax : 0120-4329026
email : sanjeev_k@bhhelpem.co.in
sharadchandra@bhhelpem.co.in

Regd. Office:
BHEL House
Siri Fort
New Delhi - 110049

4X270MW BHADRADI (MANUGURU) TPS

Shard Chandra



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

Enq No.: E-4756/2015

DATE. 04.04.2015

3. Bidders to note that following forms the part of Tender Documents :

- General Conditions of Contract (GCC) Rev 06
- Technical Specifications
- Price format & Special Conditions of Contract (SCC, Rev-Rev-01)
- Financial PQR, Technical PQR.
- NIT CONDITIONS

Bidders to note that offers shall be submitted strictly in accordance with the requirements of the above Tender Documents & all the above Tender Documents shall automatically become the part of the Order/Contract after its finalisation.

4. Standard pre-printed Terms & Conditions of the tender shall not be considered valid.
5. Unsolicited Fresh/Revised Price Bids shall not be entertained.
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.
7. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment/Items will be dispatched only after Purchaser's/Owner's inspection at the hold points specified in the approved Quality Plan and issue of Material Dispatch Clearance Certificate (MDCC).
8. In the event of any contradiction in the terms and conditions mentioned, the order of preference shall be N.I.T. covering letter/ SCC/ GCC terms.
9. All correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address :

Mr. Sanjeev Kumar, Asst Engineer GR-II, PG-II-2 M/s. Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301,U.P.,INDIA E-MAIL: sanjeev_k@bhhelpem.co.in Ph. No. +91-120-4368590	Sh. Sharad Chandra, Sr. ENGR, PG-II-2 M/s. Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16A,Noida-201301,U.P.,INDIA E-MAIL: sharadchandra@bhhelpem.co.in Ph. No. +91-120-4213572
--	--

10. INSTRUCTIONS REGARDING CENTRALISED TENDER ROOM:

- a. Bidders best quotation/offer containing Part-I & II offers in separate covers, preferably cloth lined envelopes, properly marked Enquiry No, due date and time, 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 Sanjeev Kumar, Asst. Engineer Gr-II, PG-II-2,
M/s. Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301, U.P., INDIA.
E-MAIL: sanjeev_k@bhhelpem.co.in
Ph. No. +91-120-4368590

- b. The dispatch department shall not accept any tender in torn condition and return the same with the Stamping "Returned to Sender-Package Damaged". Offers in damaged condition will not be considered and no request for extension on this account will be considered.
- c. Bidder's representative shall deposit the offer in tender box only.

Please reply to:
PEM -Power Sector
PPEI Building,
HRD & ESI Complex,
Plot-25, Sector-16-A
NOIDA – 201301

Phone: 0120-4368590
Fax : 0120-4329026
email : sanjeev_k@bhhelpem.co.in
sharadchandra@bhhelpem.co.in

Regd. Office:
BHEL House
Siri Fort
New Delhi - 110049

Sharad Chandra



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

Enq No.: E-4756/2015

DATE. 04.04.2015

- d. Bidders shall be allowed in the tender room in area identified for bidders and only one authorized representative from each bidder shall be allowed.
- e. 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.
- f. 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.
- g. Please ensure tender submission, minimum 1 hour before scheduled tender opening time. Late tenders shall not be accepted.
11. Bidder is requested to quote their best competitive prices. "BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance 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.
- In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid in the Reverse Auction. Non-submission of „online sealed bid by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue."
- Terms and Conditions of Reverse Auction shall be as per attached annexure-I.
12. **Delivery Schedule :**
Delivery completion shall be within 26 Weeks from the date of PO.
13. **Pre-Qualifying 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.**
14. CIF is not available for this package.
15. If LC payment terms are insisted by Indian bidders, all LC related Bank Charges to be incurred by BHEL shall be loaded on the bidder.
16. Deviations (Commercial as well as Technical) from NIT are generally not acceptable. In case of deviations from NIT, the tenderer shall give cost of withdrawal of such deviation in Sealed Cover as per Annexure-II Deviation Sheet (Cost of Withdrawal) as per GCC Rev-06.
17. 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. Approval of bidder by the BHEL
The bidders (who are not registered with BHEL-PEM) to **Download the Supplier Registration Form (SRF) from www.bhel.com and <http://www.bhelpem.com/Vendor%20Corner.aspx>** and submit the same duly filled in along with credentials- experience list, performance certificates and other statutory data to our Vendor Development section with intimation to us.
- 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 (as part of their credentials) on or before Part-I opening/due date:-

Please reply to:
PEM -Power Sector
PPEI Building,
HRD & ESI Complex,
Plot-25, Sector-16-A
NOIDA – 201301

Phone: 0120-4368590
Fax : 0120-4329026
email : sanjeev_k@bhelpem.co.in
sharadchandra@bhelpem.co.in

Regd. Office:
BHEL House
Siri Fort
New Delhi - 110049



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

Enq No.: E-4756/2015

DATE. 04.04.2015

- Company Profile
 - Recent Purchase orders copies
 - Reference list indicating PO details, customer name, PO date, execution date etc.
 - Performance certificate issued by the clients.
18. Indian bidders have to quote freight charges in percentage of their quoted Total Ex-works prices. Indian Bidder to mention the percentage of freight (of Total Ex Works).
19. Evaluation will be done on overall L1 (Total cost to BHEL) basis with necessary loadings as applicable.
20. All corrigenda, addenda, amendments, time extensions, clarifications, etc to the tender will be hosted on BHEL website (www.bhel.com) & BHEL-PEM website (www.bhelpem.com) only. Bidders should regularly visit websites to keep themselves updated.
21. Bidder to note that COMMERCIAL TERMS AND CONDITIONS shall be as per Notice Inviting Tender (NIT) conditions, Special Conditions of Contract of Project & General Conditions of Contracts (GCC, Rev.06).
22. Please note that detailed offers are to be submitted including the following documents:
- Acceptance of GCC Rev.06
 - Acceptance of Special Conditions of Contract (SCC Rev-01) 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

Sharad Chandra
SHARAD CHANDRA
(SR. ENGINEER/PGII-2/BHEL-PEM)

Enclosures:

1. Enquiry Letter along with Terms & Conditions (this letter)
2. Technical Specification
3. Financial PQR
4. Technical PQR
5. Price format/schedule (Prices should be quoted strictly in this format only).
6. SCC Rev-01 of 4X270 MW Bhadradi (Manuguru) TPS.

Please reply to:
PEM -Power Sector
PPEI Building,
HRD & ESI Complex,
Plot-25, Sector-16-A
NOIDA - 201301

Phone: 0120-4368590
Fax : 0120-4329026
email : sanjeev_k@bhelpem.co.in
sharadchandra@bhelpem.co.in

Regd. Office:

BHEL House
Siri Fort
New Delhi - 110049

4X270MW BHADRADI (MANUGURU) TPS

4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-INDIGENOUS BIDDERS

CONTROL VALVES COMPLETE WITH PNEUMATIC ACTUATOR AND ALL ACCESSORIES MOUNTED, PIPED AND TERMINATED ON JB												
S.No	TAG No	ITEM DESCRIPTION	QTY/UNIT	QUANTITY for 4 Units	UNIT	UNIT EX-WORKS (Rs.)	TOTAL EX-WORKS (Rs.)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C-form & EI/E2 or VAT @% Whichever is applicable (INR)	Service tax@%	FREIGHT (including service tax, if any) @% of total ex-works price	TOTAL F.O.R SITE PRICE (INR)
						1	2	3	4	5	6	7
1.0	AS-2	DEAERATOR PEGGING FROM AS HEADER	1	4	No							
2.0	CD-14	DEAERATOR LEVEL CONTROL	1	4	No							
3.0	CD-21	EXCESS RETURN TO CST	1	4	No							
4.0	CD-25	CEP MINIMUM RECIRCULATION	1	4	No							
5.0	CD-76	CONDENSATE FOR VALVE GLAND SEALING	1	4	No							
6.0	CRH-2	DEAERATOR PEGGING FROM CRH	1	4	No							
7.0	DR-2	HPH-6 NORMAL DRAIN TO HPH-5	1	4	No							
8.0	DR-9	HPH-6 ALT DRAIN TO HP FLASH TANK	1	4	No							
9.0	DR-13	HPH-5 DRAIN TO DEAERATOR	1	4	No							
10.0	DR-16	HPH-5 ALT DRAIN TO HP FLASH TANK	1	4	No							
11.0	DR-19	LPH-3 NORMAL DRAIN TO LPH-2	1	4	No							
12.0	DR-22	LPH-3 ALT DRAIN TO LP FLASH TANK	1	4	No							
13.0	DR-25	LPH-2 NORMAL DRAIN TO LPH-1	1	4	No							
14.0	DR-28	LPH-2 ALT DRAIN TO LP FLASH TANK	1	4	No							
15.0	DR-38	DEAERATOR OVERFLOW TO LP FTANK	1	4	No							
16.0	FD-14	FEED CONTROL VALVE(100% CAPACITY)	1	4	No							
17.0	FD-17	FEED CONTROL VALVE(100% CAPACITY)	1	4	No							
18.0	FD-20	FEED CONTROL VALVE (30% CAPACITY)	1	4	No							
19.0	DM-16	EMERGENCY MAKE-UP TO CONDENSER	1	4	No							
20.0	DM-20	NORMAL MU TO CONDENSER	1	4	No							
B		15 Meters of 10mm OD x 1.5mm thick Cu. Tubing (for each CV) (To be supplied Loose)	300	1200	Meters							

Standard Clauses

4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-INDIGENOUS BIDDERS

ANNEXURE-I

D	MANDATORY SPARES FOR CONTROL VALVES		1	2	3	4	5	6
S.No	ITEM DESCRIPTION	QUANTITY	UNIT EX-WORKS (Rs.)	TOTAL EX-WORKS (Rs.)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C-form & EI/E2 or VAT @....% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total ex-works price	TOTAL F.O.R SITE PRICE (INR)
D1	Mandatory Spares for Control Valve (Except FD-14, FD-17 and FD-20)							
1.0	Actuator Diaphragm	1 no. for each valve		68 Number				
2.0	Feedback Linkage	1 no. for each valve		68 nos.				
3.0	Smart Positioners	10% of total quantity of each model/type		7 nos single acting				
4.0	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		136 Sets				
5.0	Valve Seat	2 Sets each size, rating, type		136 Sets				
6.0	Actuator Piston with Rod & Seal	2 Sets each size, rating, type						
7.0	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		17 TYPES				
8.0	Solenoid valves			7 nos.				
9.0	Limit Switches			7 nos.				
D2	Mandatory Spares for Control Valve FD-14, FD-17 and FD-20							
1.0	Actuator Diaphragm	1 no. for each valve		4 Number				
2.0	Feedback Linkage	1 no. for each valve		12 nos.				
3.0	Smart Positioners	10% of total quantity of each model/type		2 nos.				
4.0	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type		24 Sets				
5.0	Valve Seat	2 Sets each size, rating, type		24 Sets				
6.0	Actuator Piston with Rod & Seal	2 Sets each size, rating, type						
7.0	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		2 Types				
8.0	Solenoid valves			1 nos.				
9.0	Limit Switches			1 nos.				
10.0	Bonnet	50% of total quantity used		2 No (FD-20) & 4 No (FD-14, FD17)				
				TOTAL (D1 + D2)				

Sand Chandner

**4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-INDIGENOUS BIDDERS**

ANNEXURE-II

E	COMMISSIONING SPARES FOR CONTROL VALVES		1	2	3	4	5	6	
S.No	TAG No	ITEM DESCRIPTION	QUANTITY	UNIT EX-WORKS (Rs.)	TOTAL EX-WORKS (Rs.)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @.....% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total ex-works price	TOTAL F.O.R SITE PRICE (INR)
E1	Gaskets								
1.0	AS-2	DEAERATOR PEGGING FROM AS HEADER	One (1) set with each control valve Tag						
2.0	CD-14	DEAERATOR LEVEL CONTROL	One (1) set with each control valve Tag						
3.0	CD-21	EXCESS RETURN TO CST	One (1) set with each control valve Tag						
4.0	CD-25	CEP MINIMUM RECIRCULATION	One (1) set with each control valve Tag						
5.0	CD-76	CONDENSATE FOR VALVE GLAND SEALING	One (1) set with each control valve Tag						
6.0	CRH-2	DEAERATOR PEGGING FROM CRH	One (1) set with each control valve Tag						
7.0	DR-2	HPH-6 NORMAL DRAIN TO HPH-5	One (1) set with each control valve Tag						
8.0	DR-9	HPH-6 ALT DRAIN TO HP FLASH TANK	One (1) set with each control valve Tag						
9.0	DR-13	HPH-5 DRAIN TO DEAERATOR	One (1) set with each control valve Tag						
10.0	DR-16	HPH-5 ALT DRAIN TO HP FLASH TANK	One (1) set with each control valve Tag						
11.0	DR-19	LPH-3 NORMAL DRAIN TO LPH-2	One (1) set with each control valve Tag						
12.0	DR-22	LPH-3 ALT DRAIN TO LP FLASH TANK	One (1) set with each control valve Tag						
13.0	DR-25	LPH-2 NORMAL DRAIN TO LPH-1	One (1) set with each control valve Tag						
14.0	DR-28	LPH-2 ALT DRAIN TO LP FLASH TANK	One (1) set with each control valve Tag						
15.0	DR-38	DEAERATOR OVERFLOW TO LP FTANK	One (1) set with each control valve Tag						
16.0	FD-14	FEED CONTROL VALVE(100% CAPACITY)	One (1) set with each control valve Tag						
17.0	FD-17	FEED CONTROL VALVE(100% CAPACITY)	One (1) set with each control valve Tag						
18.0	FD-20	FEED CONTROL VALVE (30% CAPACITY)	One (1) set with each control valve Tag						
19.0	DM-15	EMERGENCY MAKE-UP TO CONDENSER	One (1) set with each control valve Tag						
20.0	DM-20	NORMAL MU TO CONDENSER	One (1) set with each control valve Tag						

Stared Chander.

ANNEXURE-II

E		COMMISSIONING SPARES FOR CONTROL VALVES				1	2	3	4	5	6
S.No	TAG No	ITEM DESCRIPTION	QUANTITY	UNIT EX-WORKS (Rs.)	TOTAL EX-WORKS (Rs.)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C- form & E1/E2 or VAT @.....% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total ex- works price	TOTAL F.O.R SITE PRICE (INR)		
E2		Gland Packing									
1.0	AS-2	DEAERATOR PEGGING FROM AS HEADER	One (1) set with each control valve Tag								
2.0	CD-14	DEAERATOR LEVEL CONTROL	One (1) set with each control valve Tag								
3.0	CD-21	EXCESS RETURN TO CST	One (1) set with each control valve Tag								
4.0	CD-25	CEP MINIMUM RECIRCULATION	One (1) set with each control valve Tag								
5.0	CD-76	CONDENSATE FOR VALVE GLAND SEALING	One (1) set with each control valve Tag								
6.0	CRH-2	DEAERATOR PEGGING FROM CRH	One (1) set with each control valve Tag								
7.0	DR-2	HPH-6 NORMAL DRAIN TO HPH-5	One (1) set with each control valve Tag								
8.0	DR-9	HPH-6 ALT DRAIN TO HP FLASH TANK	One (1) set with each control valve Tag								
9.0	DR-13	HPH-5 DRAIN TO DEAERATOR	One (1) set with each control valve Tag								
10.0	DR-16	HPH-5 ALT DRAIN TO HP FLASH TANK	One (1) set with each control valve Tag								
11.0	DR-19	LPH-3 NORMAL DRAIN TO LPH-2	One (1) set with each control valve Tag								
12.0	DR-22	LPH-3 ALT DRAIN TO LP FLASH TANK	One (1) set with each control valve Tag								
13.0	DR-25	LPH-2 NORMAL DRAIN TO LPH-1	One (1) set with each control valve Tag								
14.0	DR-28	LPH-2 ALT DRAIN TO LP FLASH TANK	One (1) set with each control valve Tag								
15.0	DR-38	DEAERATOR OVERFLOW TO LP F/TANK	One (1) set with each control valve Tag								
16.0	FD-14	FEED CONTROL VALVE(100% CAPACITY)	One (1) set with each control valve Tag								
17.0	FD-17	FEED CONTROL VALVE(100% CAPACITY)	One (1) set with each control valve Tag								
18.0	FD-20	FEED CONTROL VALVE (30% CAPACITY)	One (1) set with each control valve Tag								
19.0	DM-15	EMERGENCY MAKE-UP TO CONDENSER	One (1) set with each control valve Tag								
20.0	DM-20	NORMAL MU TO CONDENSER	One (1) set with each control valve Tag								
		TOTAL (E1 + E2)									

NOTES

- 1 The quantities for FOUR units shall be four the quantities for one unit.
- 2 The Actual Quantity shall be worked out during detailed Engineering

Stanislav Elendev

**4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES**

PRICE FORMAT-INDIGENOUS BIDDERS

ANNEXURE-III

F	CV TEST CHARGES		QTY/UNIT	UNIT	1	2	3	4	5
	TAG No	ITEM DESCRIPTION							
1.0	AS-2	DEAERATOR PEGGING FROM AS HEADER	1	No					
2.0	CD-14	DEAERATOR LEVEL CONTROL	1	No					
3.0	CD-21	EXCESS RETURN TO CST	1	No					
4.0	CD-25	CEP MINIMUM RECIRCULATION	1	No					
5.0	CD-76	CONDENSATE FOR VALVE GLAND SEALING	1	No					
6.0	CRH-2	DEAERATOR PEGGING FROM CRH	1	No					
7.0	DR-2	HPH-6 NORMAL DRAIN TO HPH-5	1	No					
8.0	DR-9	HPH-6 ALT DRAIN TO HP FLASH TANK	1	No					
9.0	DR-13	HPH-5 DRAIN TO DEAERATOR	1	No					
10.0	DR-16	HPH-5 ALT DRAIN TO HP FLASH TANK	1	No					
11.0	DR-19	LPH-3 NORMAL DRAIN TO LPH-2	1	No					
12.0	DR-22	LPH-3 ALT DRAIN TO LP FLASH TANK	1	No					
13.0	DR-25	LPH-2 NORMAL DRAIN TO LPH-1	1	No					
14.0	DR-28	LPH-2 ALT DRAIN TO LP FLASH TANK	1	No					
15.0	DR-38	DEAERATOR OVERFLOW TO LP F/TANK	1	No					
16.0	FD-14 / FD-17	FEED CONTROL VALVE (100% CAPACITY)	1	No					
17.0	FD-20	FEED CONTROL VALVE (30% CAPACITY)	1	No					
18.0	DM-15	EMERGENCY MAKE-UP TO CONDENSER	1	No					
19.0	DM-20	NORMAL MU TO CONDENSER	1	No					

Note-

CV TEST TO BE CONDUCTED FOR ONE PER TYPE PER SIZE, CV VALUE. TAG NOS. TO BE GROUPED ACCORDINGLY AND INDICATED.

Saved Chandru

**4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-INDIGENOUS BIDDERS**

S.No	ITEM DESCRIPTION	UNIT Price (INR)
CONTROL VALVE ACCESSORIES		
1.0	SMART POSITIONER (EACH TYPE)	
2.0	VALVE TRIM OF EACH TYPE (Separate list to be attached if required)	
3.0	DIAPHRAGMS,O-RINGS,SEALS ETC OF ALL TYPE,MAKE ETC	
4.0	AIR FILTER REGULATORS	
5.0	AIR LOCK RELAY	
6.0	POSITION LIMIT SWITCH	
7.0	VOLUME BOOSTER	
8.0	SOLENOID VALVE	
9.0	E/P CONVERTER	
10.0	PRESSURE GAUGES OF EACH TYPE	
11.0	JUNCTION BOX (36 WAYS)	
12.0	HANDWHEEL	
13.0	ACTUATOR OF EACH TYPE (Separate list to be attached if required)	
14.0	BRASS FITTING FOR CONNECTION TO AIR FILTER REGULATOR	
15.0	BRASS FITTING FOR CONNECTION TO SOLENOID VALVE	
16.0	BRASS FITTINGS FOR CONNECTING TO AIR HEADER	
17.0	EQUAL BRASS TEE	
18.0	SS TUBING PER METRE	
19.0	SS CONNECTOR ½ INCH TO ¼ INCH	
20.0	DIAGNOSTIC SOFTWARE	
21.0	UNIVERSAL HAND HELD CALIBRATOR	
22.0	DTM (DEVISE TYPE MANAGER) / DTD (DEVICE TYPE DESCRIPTION) FILES FOR ENGINEERING.	

Suresh Chandra.

4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES

PRICE FORMAT-FOREIGN BIDDERS

ANNEXURE-II

D	MANDATORY SPARES FOR CONTROL VALVES		IMPORTED ITEMS (Supply not from Indian Territory)										INDIGENEOUS ITEMS (Supply from Indian Territory)				
	S.No	ITEM DESCRIPTION	QUANTITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14
			Calculated Quantity	UNIT F.O.B. Price (including seaworthiness packing, handling and transportation to vendor's own port) (Currency)	TOTAL F.O.B. Price (including seaworthiness packing, handling and transportation to vendor's own port) (Currency)	Ocean Freight (Currency)	Ocean / Marine Insurance	Custom Duty after availing CENVAT benefit if applicable (INR)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.B. site Importer Items (Currency-INR)	UNIT EX-WORKS PRICE (INR)	TOTAL EX-WORKS PRICE (INR)	ED including cess @ .% (for self-manufactured items only) (INR)	CST @ .% against C.E.S. @ .% (where applicable) (INR)	FREIGHT CHARGES (SERVICE TAX) % OF TOTAL EX-WORKS (INR)	TOTAL E.O.R. SITE PRICE (INR)	Total for the IMPORTED + INDIGENEOUS SUPPLY [(Currency-INR)XHR]
D1	Mandatory Spares for Control Valve (Except FD-14, FD-17 and FD-20)																
1.0	Actuator Diaphragm	1 no. for each valve	68 Number														
2.0	Feedback Linkage	1 no. for each valve	68 nos.														
3.0	Smart Positioners	10% of total quantity of each model/type	7 nos single acting														
4.0	Complete Consumables for Valve Vlt. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type	136 Sets														
5.0	Valve Seat	2 Sets each size, rating, type	136 Sets														
6.0	Actuator Piston with Rod & Seal	2 Sets each size, rating, type	--														
7.0	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	17 TYPES														
8.0	Solenoid valves		7 nos.														
9.0	Limit Switches		7 nos.														
D2	Mandatory Spares for Control Valve FD-14, FD-17 and FD-20																
1.0	Actuator Diaphragm	1 no. for each valve	4 Number														
2.0	Feedback Linkage	1 no. for each valve	12 nos.														
3.0	Smart Positioners	10% of total quantity of each model/type	2 nos.														
4.0	Complete Consumables for Valve Vlt. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	2 Sets each size, rating, type	24 Sets														
5.0	Valve Seat	2 Sets each size, rating, type	24 Sets														
6.0	Actuator Piston with Rod & Seal	2 Sets each size, rating, type	--														
7.0	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	2 Types														
8.0	Solenoid valves		1 nos.														
9.0	Limit Switches		1 nos.														
10.0	Bonnet	50% of total quantity used	2 No FD-20 & 4 No (FD-14, FD17)														
			TOTAL (D1 + D2)														

Stared Elavdra.

**4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-FOREIGN BIDDERS**

ANNEXURE-III

F		CV TEST CHARGES			1	2
S.No	TAG No	ITEM DESCRIPTION	QTY/UNIT	UNIT	UNIT F.O.B. Price (Currency)	TOTAL F.O.B. Price (Currency)
1.0	AS-2	DEAERATOR PEGGING FROM AS HEADER	1	No		
2.0	CD-14	DEAERATOR LEVEL CONTROL	1	No		
3.0	CD-21	EXCESS RETURN TO CST	1	No		
4.0	CD-25	CEP MINIMUM RECIRCULATION	1	No		
5.0	CD-76	CONDENSATE FOR VALVE GLAND SEALING	1	No		
6.0	CRH-2	DEAERATOR PEGGING FROM CRH	1	No		
7.0	DR-2	HPH-6 NORMAL DRAIN TO HPH-5	1	No		
8.0	DR-9	HPH-6 ALT DRAIN TO HP FLASH TANK	1	No		
9.0	DR-13	HPH-5 DRAIN TO DEAERATOR	1	No		
10.0	DR-16	HPH-5 ALT DRAIN TO HP FLASH TANK	1	No		
11.0	DR-19	LPH-3 NORMAL DRAIN TO LPH-2	1	No		
12.0	DR-22	LPH-3 ALT DRAIN TO LP FLASH TANK	1	No		
13.0	DR-25	LPH-2 NORMAL DRAIN TO LPH-1	1	No		
14.0	DR-28	LPH-2 ALT DRAIN TO LP FLASH TANK	1	No		
15.0	DR-38	DEAERATOR OVERFLOW TO LP F/TANK	1	No		
16.0	FD-14 / FD-17	FEED CONTROL VALVE(100% CAPACITY)	1	No		
17.0	FD-20	FEED CONTROL VALVE (30% CAPACITY)	1	No		
18.0	DM-15	EMERGENCY MAKE-UP TO CONDENSER	1	No		
19.0	DM-20	NORMAL MU TO CONDENSER	1	No		

Note-

1. CV TEST TO BE CONDUCTED FOR ONE PER TYPE PER SIZE, CV VALUE. TAG NOS. TO BE GROUPED ACCORDINGLY AND INDICATED.
2. TOTAL FOB PRICE SHOULD BE INCLUSIVE OF SERVICE TAX, IF ANY

Stanad Rlandra.

**4 X 270 MW BHADRADRI (MANUGURU) TPS
SCHEDULE OF PRICES
PRICE FORMAT-FOREIGN BIDDERS**

S.No	ITEM DESCRIPTION	UNIT F.O.B. Price (Currency)
CONTROL VALVE ACCESSORIES		
1.0	SMART POSITIONER (EACH TYPE)	
2.0	VALVE TRIM OF EACH TYPE (Separate list to be attached if required)	
3.0	DIAPHRAGMS,O-RINGS,SEALS ETC OF ALL TYPE,MAKE ETC	
4.0	AIR FILTER REGULATORS	
5.0	AIR LOCK RELAY	
6.0	POSITION LIMIT SWITCH	
7.0	VOLUME BOOSTER	
8.0	SOLENOID VALVE	
9.0	E/P CONVERTER	
10.0	PRESSURE GAUGES OF EACH TYPE	
11.0	JUNCTION BOX (36 WAYS)	
12.0	HANDWHEEL	
13.0	ACTUATOR OF EACH TYPE (Separate list to be attached if required)	
14.0	BRASS FITTING FOR CONNECTION TO AIR FILTER REGULATOR	
15.0	BRASS FITTING FOR CONNECTION TO SOLENOID VALVE	
16.0	BRASS FITTINGS FOR CONNECTING TO AIR HEADER	
17.0	EQUAL BRASS TEE	
18.0	SS TUBING PER METRE	
19.0	SS CONNECTOR ½ INCH TO ¼ INCH	
20.0	DIAGNOSTIC SOFTWARE	
21.0	UNIVERSAL HAND HELD CALIBRATOR	
22.0	DTM (DEVISE TYPE MANAGER) / DTD (DEVICE TYPE DESCRIPTION) FILES FOR ENGINEERING.	

Standard Standard