



Ref: E-6084/2018/04

Date:05/01/2019

Corrigendum 04 to GLOBAL Tender Enquiry of AUX PRDS for 2X660 MW UDANGUDI SUPERCRITICAL STPP

Our Ref:

- (i) Enq No.: - E-6084/2018 dated 01/12/2018
- (ii) Corrigendum 01: -E-6084/2018/01 DATED 10/12/2018
- (iii) Corrigendum 02: -E-6084/2018/02 DATED 21/12/2018
- (iv) Corrigendum 03: -E-6084/2018/03 DATED 28/12/2018

Subject: Pre bid Clarifications and change in price schedule

Sir,

Please note following with respect to subject tender enquiry: -

- 1.) Please find enclosed Annexure-I indicating pre bid clarification.
- 2.) There is change in price schedule. Refer enclosed Annexure-II for details.

Note: - As corrigendum regarding price schedule is being issued, offers of the bidders who have already submitted will be removed from system. Such bidders are required to resubmit their offer on BHEL E PROCUREMENT SITE(<https://bhel.abcprocure.com/EPROC>) in revised price schedule format.

All other terms and condition shall remain unchanged as per NIT and subsequent corrigendum, if any.

With regards

For & on behalf of BHEL

(AKASH VERMA)
Sr Engineer/ PG-I
PEM, BHEL, Noida

PRE BID QUERY SHEET


ANNEXURE-I

PROJECT TANGEDCO-2x660 MW UDANGUDI
 CUSTOMER BHEL - PEM
 PACKAGE Aux. PRDS

SR. NO.	DOCUMENT NAME	SPECIFICATION CLAUSE	Bidder's Query	CLARIFICATION
1	PEC. NO.: PE-TS-435-142-N101 SECTION-I SECTION-II i)Control Valves Accessories ii)Hook-Up Note-9 iii)Datashheet to submit after award of contract.	i)Control Valves Accessories ii)Hook-Up Note-9 iii)Datashheet to submit after award of contract.	Cu/SS Tubing & Fittings / per CV : Bidder shall use SS316 tubing and fittings for Actuator internal routing hookup. Also, 15 meters of tubing of SS316 as per bidder standard shall be provided with suitable fitting & IA header connector accessory for each valve.	Bidder may offer 15 meters SS tubing instead of 25 meters in addition to copper (Cu) Tubing and fittings which are integral part of CV as per the 'Control valve accessories' datasheet attached in the Aux.PRDS specification (PE-TS-435-142-N101)
2	SPEC. NO.: PE-TS-435-142-N101 SECTION-I Page 6 of 14	Mandatory Spares List as per specification clause no. 1.5 (iv) page 6 of 14 & mandatory spares as per BOC/price list.	As per the project specification in the mandatory spares List the other mandatory spares are asked for the items applicable for all the valves in the project. Where as per price list item description other mandatory spares calls for only spray pressure control valve i.e. CDV138 only. Hence kindly confirm that we have to consider the respective spares for CDV138 only or for all the valves.	This requirement of mandatory spares is for all the valves as per the specification clause no. 1.5 (iv) page 6 of 14 . Price Schedule is revised accordingly.

Shy
 03-1-19
 31/1/2019

2x660 MW UDANGUDI STPP		ANNEXURE-II		
SL NO	ITEM DESCRIPTION	UNIT	TOTAL QTY	
1	2	3	3	
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-435-142-N101			
A.1	Combined Type Aux. Steam High Capacity Pr. Reducing Valve (ASV-22)	NO.	2	
A.2	Low Capacity Pressure Reducing Valve (from CRH line) (ASV-26)	NO.	2	
A.3	Spray Control Valve (CDV-138) for HC-PRDS	NO.	2	
A.6	ORDERING VALUE (A.1 to A.5)			
B	Mandatory spare as per the list furnished under vide LTR ref no. MS-1-17-0008 dated 07-06-2018 cl. No.24, Page 93 of 94. Same is mentioned at cl.no. (iv) section-I page 7 of 17 of Aux.PRDS tech Spec, Item wise breakup with item wise price to be given.Price not to be included in clause A.6 above.			
B.1	Mandatory Spares for High Capacity PRDS (AS-22)			
a)	Pneumatic and electro-hydraulic actuator assembly	NO.	10% or 1 no. of each type, model and rating, whichever is more	
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	NO.	1 set for each type of control valve	
B.2	Mandatory Spares for LC PRDS (ASV-26)			
a)	Pneumatic and electro-hydraulic actuator assembly	NO.	10% or 1 no. of each type, model and rating, whichever is more	
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	NO.	1 set for each type of control valve	
B.2	Mandatory Spares for Spray Valve (CDV-138)			
a)	Pneumatic and electro-hydraulic actuator assembly	NO.	10% or 1 no. of each type, model and rating, whichever is more	
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	NO.	1 set for each type of control valve	

B.3		Other Mandatory spares (common for all valves)		
a)	Diaphragms, O' rings, seals etc. of all types, make etc.	NO.	200%	
b)	Pressure Gauges of all types, make, rating etc.	NO.	10% or 2 nos. of each type whichever is more.	
c)	Solenoid valves (if applicable)	NO.	10% or 2 nos. of each type whichever is more.	
d)	Positioner units (complete unit)	NO.	10% or 1 no. of each type whichever is more.	
e)	Pneumatic air-filter/Regulator of each type, make, rating etc.	NO.	10% or 2 nos., whichever is more	
f)	Position feedback transmitters	NO.	10% or 2 nos. of each type,	
g)	Torque and limit switch assembly	NO.	10% or 2 nos. of each type,	
h)	Air lock relays	NO.	10% or 2 nos. of each type, whichever is more	
B.4	ORDERING VALUE (B.1 to B.3)			

C	Site visit for valve installation check to ensure proper valve functionality check after the erection of the valve during the commissioning (cold condition) and during the hot charging of the valve considering 2 nos. of site visit for 2 days each.			
1)	Charges per visit	1 visit	2 visits	
2)	Charges per mandays	1 day	4 days	

NOTE-

1. PLEASE REFER TECHNICAL SPECIFICATION PE-TS-435-142-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. Bidder shall depute engineer for supervision and site inspection after intimation by BHEL for 2 days time .Addition /deletion in no. of days in site visit shall be considered on prorata basis as per Sl. no. C (2)

4. Additional site visit, if required, shall be considered on prorata basis as per Sl. no. C above and shall be calculated as per formulae : C (1) x No. of visits + C (2) x No. of days. The prices shall be inclusive of charges of airfare,transport within India, boarding/lodging, meals, visa, insurance etc.



**TECHNICAL SPECIFICATION FOR
AUXILIARY STEAM PRESSURE REDUCING &
DESUPERHEATING STATION**

SPEC. NO.: PE-TS-435-142-N101

SECTION I

REV. NO. 00

DATE 15.11.18

SHEET 6 OF 14

iv) **Mandatory Spares List:**

Auxiliary Steam Pressure Reducing & Desuperheating System

High Capacity PRDS System (ASV-22)

a)	Pneumatic and electro-hydraulic actuator assembly	10% or 1 no. of each type, model and rating, whichever is more
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	1 set for each type of control valve

Low Capacity PRV (ASV-26)

a)	Pneumatic and electro-hydraulic actuator assembly	10% or 1 no. of each type, model and rating, whichever is more
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	1 set for each type of control valve

Spray Control Valve for High Capacity PRDS System (CDV-138)

a)	Pneumatic and electro-hydraulic actuator assembly	10% or 1 no. of each type, model and rating, whichever is more
b)	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	1 set for each type of control valve

Other Mandatory spares (common for all valves)

a)	Diaphragms, O' rings, seals etc. of all types, make etc.	200%
b)	Pressure Gauges of all types, make, rating etc.	10% or 2 nos. of each type whichever is more.
c)	Solenoid valves (if applicable)	10% or 2 nos. of each type whichever is more.
d)	Positioner units (complete unit)	10% or 1 no. of each type whichever is more.
e)	Pneumatic air-filter/Regulator of each type, make, rating etc.	10% or 2 nos., whichever is more
f)	Position feedback transmitters	10% or 2 nos. of each type
g)	Torque and limit switch assembly	10% or 2 nos. of each type,
h)	Air lock relays	10% or 2 nos. of each type, whichever is more