

**Project Engineering
Management**

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



Ref. Enquiry No.: PE/PG/TAN/E-5505/2016 Dated: 06.03.2017

DUE DATE
01.04.2017
BY 02:00 PM

CORRIGENDUM-2

Date: 29.03.2017

Subject: Revised BOQ-CUM-Price Schedule for Chemical Dosing System for 1 X 800 MW North Chennai TPS, Stage - III

Dear sir/ madam,
BOQ-CUM-Price Schedule has been revised, revised format along with annexures are appended below. Pls. submit your offer for both Part-1 and Part-2 (i.e. Techno commercial Bid & Price Bid) in revised format only.

With Regards,
For & on behalf of BHEL

Santosh Kumar Verma
29/03/17

(Santosh Kumar Verma)
Sr Engineer/PG-II-1/ BHEL-PEM

Santosh Kumar Verma
Sr. ENGINEER/PG-II-1,
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Regd. Office:
BHEL House
Siri Fort
New Delhi-110049

S. No.	DESCRIPTION	UNIT	QTY	FOR INDIAN BIDDERS							FOR FOREIGN BIDDERS			
				Unit Ex-works price (duly packed) (Rs.)	Total Ex-works price (duly packed) (Rs.)	Excise Duty including Cess @.....% for self manufactured items only (Rs.)	Central Sales Tax @% against form C /VAT@..... (Rs.)	Freight charges including service tax @.....% of Ex-works Price. (Rs.)	TOTAL F.O.R. SITE PRICE (Rs.)	Unit FOB (Duly packed) (Currency)	TOTAL FOB (Duly packed) (Currency)	Ocean Freight (Currency)	Total C & F cost (Currency) (14=12+13)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1.0	Total lump sum firm price for SUPPLY PART & MANDATORY SPARES (if applicable) design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendors & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables(excluding chemicals), mandatory spares (if applicable) alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site 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											
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.													
2.1	Prices 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(excluding chemicals), alongwith spares for erection, startup and commissioning spares as required, forwarding, proper packing, shipment and delivery at site for project and package specified above complete with all accessories for following items for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up of prices as per Annexure I)	Set	1											
2.2	Total lumpsum firm price 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- II).	Lot	1											
Total														
Particulars of bidder / authorised representative														
Name	Designation	Signature	Date	Company Seal										

Signature
29/03/17

S. No.	DESCRIPTION	UNIT	QTY	FOR INDIAN BIDDERS					FOR FOREIGN BIDDERS				
				Unit Ex-works price (duly packed) (Rs.)	Total Ex-works price (duly packed) (Rs.)	Excise Duty including Cess @.....% for self manufacture d items only (Rs.)	Central Sales Tax @% against form C / VAT@..... (Rs.)	Freight charges including service tax @.....% of Ex-works Price. (Rs.)	TOTAL F.O.R. SITE PRICE (Rs.)	Unit FOB (Duly packed) (Currency)	TOTAL FOB (Duly packed) (Currency)	Ocean Freight (Currency)	Total C & F cost (Currency) (14=12+13)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET.													
2.1	Prices 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 vendors & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables(excluding chemicals), alongwith spares for erection, startup and commissioning spares as required, forwarding, proper packing, shipment and delivery at site for project and package specified above complete with all accessories for following items for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1										
2.1.1	Hydrazine dosing skid	No.	2										
2.1.2	Ammonia dosing skid	No.	2										
2.1.3	NaOH dosing skid	No.	1										
2.1.4	Supply of Commissioning spares (As per BHEL NIT & tender technical specification, amendment & agreements till placement of order.)	Set	1										
	Total												
Particulars of bidder / authorised representative													
Name	Designation	Signature	Date	Company Seal									

Sanjay
26/03/17

S. N.	DESCRIPTION	UNIT	QTY	FOR INDIAN BIDDERS						FOR FOREIGN BIDDERS			
				Unit Ex-works price (duly packed) (Rs.)	Total Ex-works price (duly packed) (Rs.)	Excise Duty @.....% for self manufactured items only (Rs.)	Central Sales Tax @.....% against form C /VAT@..... (Rs.)	Freight charges including service tax @.....% of Ex-works Price. (Rs.)	TOTAL F.O.R. SITE PRICE (Rs.)	Unit FOB (Duly packed) (Currency)	TOTAL FOB (Duly packed) (Currency)	Ocean Freight (Currency)	Total C & F cost (Currency) (14=12+13)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.00	LP CHEMICAL DOSING SYSTEM												
i)	Dosing pumps & drive	No.	1 no for each type & size										
ii)	Agitator	No.	1 no for each type & size										
2.00	Electrical												
2.01	415 V Motors												
i)	Terminal plates	Nos.	10 Nos. each for small motors upto 30 kW & 4 Nos. each for more than 30 kW										
ii)	Heaters	Set	2 sets										
iii)	Greasing arrangements	Set	4 sets each type of motor										
iv)	Motor of each type and rating	%	10% of the installed quantity or minimum 1 number whichever be higher.										
v)	Bearings (DE and NDE) for each type and rating of motor	Set	4 sets										
3.00	Control & Instrumentation												
3.01	MEASURING INSTRUMENTS- Indicators, Recorders, Electrical Metering and Skid Mounted Instruments:												
i)	10% of the number of indicators, recorders and meters offered from each model for the project or a minimum of one number per model, whichever is more. These instruments shall be supplied with three sets of blank scales.	%	Quantity shall be as mentioned in Description Column										
ii)	For skid mounted instruments (if any) - 10% of total number of instruments for each model and type for the project or a minimum of one number for each model and type, whichever is more.	%	Quantity shall be as mentioned in Description Column										
3.02	10% of total number of Temperature Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc. offered for each model and type for the project or a minimum of one number, whichever is more.	%	Quantity shall be as mentioned in Description Column										
4.00	Relay Based Control Panels												
i)	10% LEDs for indicating lights shall be furnished.	%	Quantity shall be as mentioned in Description Column										
ii)	Three times, the one hundred percent (300% of installed) spare replacement control circuit fuses/MCB/MCCB of each current rating required shall be furnished.	%	Quantity shall be as mentioned in Description Column										
iii)	20% spare replacement relays modules & contactors of each type.	%	Quantity shall be as mentioned in Description Column										
5.00	Alarm Annunciation System												
i)	20% spares of each type installed shall be provided for logic modules, group card modules, power supply modules, Hooters and any other electronic module.	%	Quantity shall be as mentioned in Description Column										
ii)	5% spares of each size shall be provided for un-engraved window boxes complete with LED etc.	%	Quantity shall be as mentioned in Description Column										
iii)	20% of installed LEDs for annunciation fascia windows and LEDs box assemblies offered for the project shall be provided as mandatory spares.	%	Quantity shall be as mentioned in Description Column										
iv)	One (1) spare annunciator hooter of each type.	No.	Quantity shall be as mentioned in Description Column										
6.00	ERECTION HARDWARE												

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24/03/17

i)	Ten (10) percent of each type & Size installed instrument valve, manifold for each type, rating, model number and size of devices supplied for the project.	%	Quantity shall be as mentioned in Description Column																
ii)	Ten (10) percent of total number of condensate pots or four numbers whichever is higher of each type & Size installed.	%	Quantity shall be as mentioned in Description Column																
iii)	Ten (10) percent of each type & Size installed Fittings	%	Quantity shall be as mentioned in Description Column																
7.00	Bidder shall include a minimum of 20 % spares for replacement of each type of lamps, PBs, LLPBs, fuse, MCB, MCCB used in the equipment/system offered by him even if this is not detailed above.	%	Quantity shall be as mentioned in Description Column																
	Total																		

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.

Particulars of bidder / authorised representative																			
Name	Designation	Signature & Company	Date																

Sankar
29/03/17