

Project Engineering
Management

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



Ref. Enquiry No.: PE/PG/TAN/E-5506/2016 Dated: 06.03.2017

DUE DATE
31.03.2017
BY 02:00 PM

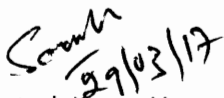
CORRIGENDUM-2

Date: 29.03.2017

Subject: Revised BOQ-CUM-Price Schedule for Oxygen 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)

Sr Engineer/PG-II-1/ BHEL-PEM

Santosh Kumar Verma
Sr. ENGINEER/PG-II-1,
BHEL/PS-PEM
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New Delhi-110049

FOR INDIAN BIDDERS													
S. No.	DESCRIPTION	UNIT	QTY	Unit Ex-works price	Total Ex-works price	Excise Duty	Central Sales Tax @	Freight charges	TOTAL F.O.R. SITE	FOR FOREIGN BIDDERS			
				(duty packed) (Rs.)	(duty packed) (Rs.)	Including Cess @.....% for self manufactured items only (Rs.)	% against Form C / VAT@..... (Rs.)	Including charges including service tax @.....% of Ex- works Price. (Rs.)	PRICE (Rs.)	Unit FOB (Duty packed) (Currency)	TOTAL FOB (Duty 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 vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, 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, 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									

Sd/-
29/03/17

				FOR INDIAN BIDDERS						FOR FOREIGN BIDDERS			
S. No.	DESCRIPTION	UNIT	QTY	Unit Ex-works price (duty packed) (Rs.)	Total Ex-works price (duty 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 (Duty packed) (Currency)	TOTAL FOB (Duty packed) (Currency)	Ocean Freight (Currency)	Total C & F cost (14=12+13) (Currency)
1	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET.	3	4	5	6	7	8	9	10	11	12	13	14
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, 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	Oxygen dosing skid (including oxygen cylinders mounted on each skid)	Nos.	4 nos.										
2.1.2	Accessories (as described below):-												
2.1.2.1	Injector Assembly	Nos.	4 nos.										
2.1.2.2	15 NB, SS 316, 18 BWG tubing for oxygen dosing	Meters	200 meters										
2.1.2.3	SS 316 Tube fittings -tees	Nos.	10 nos.										
2.1.2.4	SS 316 Tube fittings -90° elbows	Nos.	10 nos.										
2.1.2.5	Filled oxygen cylinders	Nos.	30 nos.										
2.1.2.6	Rack to hold 30 filled oxygen cylinders	No.	1 no.										
2.1.2.7	Compression fittings	Nos.	40 Nos.										
	Total												
Particulars of bidder / authorised representative													
Name	Designation	Signature	Date	Company Seal									

Set
29/03/17

FOR INDIAN BIDDERS													
S. N.	DESCRIPTION	UNIT	QTY	Unit Ex-works price	Total Ex-works	Excise Duty	Central Sales Tax @	Freight charges	TOTAL F.O.R. SITE	Unit FOB	TOTAL FOB	Ocean Freight	Total C & F cost
				(duty packed) (Rs.)	price (duty packed) (Rs.)	Including Cess @.....% for self manufactured items only (Rs.)	% against form C / VAT@..... (Rs.)	Including service tax @.....% of Ex- works Price. (Rs.)	PRICE (Rs.)	(Duty packed) (Currency)	(Duty packed) (Currency)	(Currency)	(Currency) (14=12+13)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.0	CONTROL & INSTRUMENTATION												
1.01	MEASURING INSTRUMENTS:- Indicators, Recorders, Electrical Meitering 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										
1.02	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										
2.0	ALARM ANNUNCIATION SYSTEM												
2.01	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										
2.02	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										
2.03	20% of installed LEDs for annunciation, facia windows and LEDs box assemblies offered for the project shall be provided as mandatory spares.	%	Quantity shall be as mentioned in Description Column										
2.04	One (1) spare annunciator hooter of each type.	no.	Quantity shall be as mentioned in Description Column										
3.0	ERECTION HARDWARE												
3.1	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										
3.2	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										
3.3	Ten (10) percent of each type & Size installed Filings	%	Quantity shall be as mentioned in Description Column										
4.0	MANDATORY SPARES NOT COVERED ABOVE												
	Bidder to supply 10% or 1 no. (whichever is more) of each type of sensor/instrument,analyzers /special instruments,Electronic card, instrumentation/mechanical fittings etc. for any other electronic system, feeder control cabinets, hydra step (EWL), Vibration Monitoring System, CCTV, C&I Lab Instruments, On line Carbon in Ash analyzer system, On line Coal mass flow/speed measurement system, On line secondary air flow measurement system Mass Flow meter, Solid flow meter, 3 D Acoustic type level transmitters, Nucleonic & non nucleonic density transmitter etc.	%	Quantity shall be as mentioned in Description Column										
5.0	SOLENOID VALVES												
5.1	Solenoid valves	nos.	20% or 2 nos. of each type whichever is more										
	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 Seal	Date										

Sd/-
29/03/17