

ANNEXURE-A (BOQ)

Doc No:	PE-PF-434-501-A501
Rev No:	0
Date of issue	22.06.19

NAME OF PROJECT:	3X800MW PVUNL PATRATU TPP Phase-I
NAME OF PACKAGE:	DOUBLE GIRDER EOT CRANES (>100T CAPACITY)
TECHNICAL SPECIFICATION:	PE-TS-434-501-A501

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
1.0	Total lump sum firm price for SUPPLY PART, SERVICE PART & MANDATORY SPARES 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, fill of lubricants & consumables, mandatory spares alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, trial run at site and carrying out performance guarantee/Functional/Demonstration tests at site (As applicable), and OPERATION AND MAINTENANCE SERVICE including manpower, supervision, consumables etc for operation & maintenance of cranes for 24 crane-months for each crane after commissioning & final handing over to end customer (after O & M service) in flawless condition of crane(s) 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.		Lot	1
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE			
2.1	Total lump sum firm price 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, spares for erection, startup and commissioning as required, fill of lubricants & consumables, forwarding, proper packing, shipment and delivery at site for project and package complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	8426 11 00	Nos.	2
2.2	Total lump sum firm price for SERVICE part comprising of unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, trial run at site, and carrying out performance guarantee/Functional/Demonstration tests at site (As applicable) of crane(s) for project and package complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	998732	Nos.	2
2.3	Total lumpsum firm price for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing 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- I).	8431 49 20	Lot	1
2.4	Total lumpsum firm price for providing OPERATION AND MAINTENANCE SERVICE including manpower, supervision, consumables etc for operation & maintenance of crane for 24 crane-months per crane after commissioning & final handing over to end customer (after O & M service) in flawless condition with all accessories for the total scope defined as per technical specification. (Refer Note 1 below)	998732	Nos.	2

Note: 1) Bidder to note that BHEL reserves the rights to distribute total number of crane-months in two cranes at its descretion i.e. during execution number of crane-months for one crane may be more than 24 nos. and accordingly lesser number of crane-months for other crane. Further, if increase/decrease in number of crane-months over and above the quoted period, shall be calculated based on prices quoted by bidder against S. no. 2.4 above.

2) Bidder to quote the Prices in 'figures' along with corresponding 'words'.

Particulars of bidder / authorised representative

Name	Designation	Signature		Date	Company

ANNEXURE-I LIST OF MANDATORY SPARES		Doc No:	PE-PF-434-501-A501
		Rev No:	0
		Date of issue	22.06.19
NAME OF PROJECT:		3 X 800MW PATRATU TPS	
NAME OF PACKAGE:		DOUBLE GIRDER EOT CRANES (>100T CAPACITY)	
TECHNICAL SPECIFICATION:		PE-TS-434-501-A501	
Sl. No.	DESCRIPTION	QUANTITY	
Mechanical			
1	Bearings for long travel wheels	1 Set (Requirement for one Crane)	
2	Bearings for cross travel wheels	1 Set(Requirement for one Crane)	
3	Bearings for Gear Boxes for each type of Hoist & travel (Main and aux hoist, LT and CT travel)	1 Set(Requirement for one Crane)	
4	Brake Liner for all the brakes (main and aux hoist ,LT and CT travel)	2 Sets (Requirement for two Crane)	
5	Hydraulic thruster for all Brakes (Main and aux hoist, CT and LT travel)	1 Set (Requirement for one Crane)	
6	Oil Seals (both main and aux hoist , CT and LT motion)	2 Sets(Requirement for two Crane)	
7	Brake springs for all brakes (both main and aux hoist, LT and CT travel)	1 Set(Requirement for one Crane)	
8	Wire Rope for Aux. hoist	1 No each	
9	Oil Pumps with motor & Hydraulic cylinder for operation of jaw of storm Brake	1 No. of each type& size	
Electrical			
1	Solenoid Coils for Brakes	2 sets	
2	MCBs/MCCBS/Fuse links for the whole crane	1 set	
3	Contactors and overload Relays for Motors of the EOT	1 set of each type, size & rating	
4	Motors of EOT	1 set of each type, size & rating	
5	Timers of each type, size & rating	1 set	
6	Limit Switches for		
	Main Hoist	1 set	
	Aux. Hoist	1 set	
	Cross Travel	1 set	
	Long Travel	1 set	
7	Carbon brushes & brush holders	1 set	
8	Master Controller for Aux. Hoist	1 set each	
9	Resistance Box	1 No of each type.	
10	Drive for MH,AH,CT<	1 no. of each type& rating	
NOTES	Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification, same shall be deemed to have been covered in bidders scope of supply.		
Particulars of bidder / authorised representative			
Name	Designation	Signature &	