

BOQ

NAME OF PROJECT:	1 X 660MW BHUSAWAL TPS
NAME OF PACKAGE:	DOUBLE GIRDER EOT CRANES (>100T CAPACITY)
TECHNICAL SPECIFICATION:	PE-TS-415-501-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 and till COD of the unit, 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 and till COD of the unit, 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	Lot	2

Note: 1) Bidder to note that BHEL reserves the rights to distribute total number of crane-months in four 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 cranes. 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. 2.3 above.

2) BOP to consider and suitably incorporate taxes, duties and other commercial aspects.

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

Particulars of bidder / authorised representative

Nam	Designation	Signature	Date	Company Seal

LIST OF MANDATORY SPARES (BOQ)

NAME OF PROJECT:		1 X 660 MW BHUSAWAL TPS
NAME OF PACKAGE:		DOUBLE GIRDER EOT CRANES (>100T
TECHNICAL SPECIFICATION:		PE-TS-415-501-A501
Sl. No.	DESCRIPTION	QUANTITY
1	Carbon brushes for each motor	Three (3) sets
2	Brush holders for each motor	One (1) set
3	Bearing for each motor	One (1) set
4	Bearings for each reduction gear unit	One (1) set
5	Bearings for cross travel and long travel wheels	One (1) set
6	Linings for each brake shoe complete with rivets	Two (2) sets
7	Contactors of each type and rating	Two (2) each
8	Timers of each type	Two (2) each
9	Limit switches and switches of each type	One (1) set each
10	Sockets of each type	One (1) set each
11	Double roller collectors	Three (3) sets
12	Porcelain insulators of each type	Two (2) sets each
13	Contacts for master controllers	Two (2) sets
14	Brake springs for main and auxiliary hoist brakes	Three (3) sets.
15	Coils for all contactors	One (1) set each.
16	V3F DRIVE	
16.1	Thysrister	Twelve (12) nos.
16.2	Ignition Transformer	Twelve (12) nos.
16.3	Firing card	Four (4) Nos.
16.4	Control Transformer	Two (2) nos.
16.5	Auxiliary contactor	Two (2) each type.
NOTES		
1	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 & company seal