

ANNEXURE-A

NAME OF PROJECT:		4x225 MW ARUN-3 HEP				Doc No:	PE-PF-437-501-A004		
NAME OF PACKAGE:		50T/10T WORKSHOP AREA DOUBLE GIRDER EOT CRANE				Rev No:	0		
TECHNICAL SPECIFICATION:		PE-TS-437-501-A004				Date of issue	Jan-22		
S. No.	DESCRIPTION	UNIT	QTY	TOTAL EX-WORK	Freight in %	freight in INR	Total SERVICES PRICES	Total FOR price	TOTAL EXWORKS IN WORDS
1.0	Total lump sum firm price for SUPPLY PART, SERVICE PART (SUPERVISION & MAINTENANCE SERVICES) & 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 along with all accessories and spares for erection, start up and commissioning as required, training of operators at site, forwarding, proper packing, shipment and delivery as per SCC including warranty, supervision of erection and commissioning of crane, supervision of load & overload testing at site, supervision of erection of sole plate, anchor bolts and required accessories for rail & DSL fixing, training of operators at site and routine maintenance/ breakdown maintenance service of crane for the total scope for EOT cranes defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.								
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, fill of lubricants & consumables along with all accessories and spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery as per NIT including warranty of crane for the total scope for EOT cranes defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Price break up to be furnished at Annexure- I).	Lot	1				NA	0	
2.2	Total lump sum firm price for SERVICE part comprising of Supervision of erection and commissioning of crane, supervision of load & overload testing at site, supervision of erection of sole plate, anchor bolts and required accessories for rail & DSL fixing, training of operators at site for crane for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Price break up to be furnished at Annexure- II).	Lot	1			NA			0
2.3	Total lumpsum firm prices for MAINTENANCE SERVICE including manpower, consumables, wear/tear parts etc. for crane after load/ overload testing with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order (Price break up of Maintenance services is to be furnished as per Annexure- III).	Lot	1			NA			0
2.4	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 as per NIT including warranty 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- IV).	Lot	1				NA		0
GRAND TOTAL				0		0	0	0	0
Note: 1) Bidder to note that there shall be no implication for change in span &/or lift upto (+/-) 500 mm. 2) Bidder to quote the Prices in 'figures' along with corresponding 'words'.									

ANNEXURE-I		Doc No: PE-PF-437-501-A004		
		Rev No: 0		
		Date of issue: Jan-22		
NAME OF PROJECT:		4x225 MW ARUN-3 HEP		
NAME OF PACKAGE:		50T/10T WORKSHOP AREA DOUBLE GIRDER EOT CRANE		
TECHNICAL SPECIFICATION:		PE-TS-437-501-A004		
S. No.	DESCRIPTION	UNIT	QTY	TOTAL EX-WORKS
BROAD BREAK-UP OF S.N. 2.1 OF MAIN SHEET ARE AS A.0 BELOW				
A.0	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, DSL and gantry rail complete with all accessories, spares for erection, startup and commissioning as required, fill of lubricants & consumables, training of end customer at manufacturer's works, forwarding, proper packing, shipment and delivery as per conditions mentioned in NIT including warranty of crane for project and package complete with all accessories for 50T/10T capacity double girder EOT crane with 6 M lift of main hook, 6 M lift of aux hook, 10 M span, 18.9 M bay length for WORKSHOP BUILDING as defined in BHEL NIT & tender technical specification, amendment & agreements till placement of order.	no.	1	0
1.0	MAJOR BREAK-UP OF PRICES GIVEN IN A.0 ABOVE EXCLUDING TRAINING AT MANUFACTURER'S WORKS			
1.1	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, fill of lubricants & consumables along with all accessories and spares for erection, start up and commissioning as required, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty of crane for the total scope defined as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - 50T/10T capacity double girder EOT crane with 6 M lift of main hook, 6 M lift of aux hook, 10 M span for Workshop Building.	no.	1	
1.2	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - PVC shrouded bus bar type DSL for 18.9m baylength	set	1	
1.3	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - Gantry rail for 18.9m baylength	set	1	
1.4	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - Embedded parts, sole plate, anchor bolts and other accessories for rail fixing and insert plate and anchor bolts for DSL fixing arrangement for 18.9m baylength	set	1	
1.5	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - Temporary cable (25m) for operation of crane during erection stage of the plant	set	1	
1.6	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies 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 along with all accessories forwarding, proper packing, shipment and delivery as per SCC including warranty for Power cable (200M) from SSB feeder to isolation switch of the crane for the total scope defined as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order.	set	1	
1.7	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - Cradle for load testing of crane along with slings for load/overload testing.	set	1	
1.8	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies 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 along with all accessories forwarding, proper packing, shipment and delivery as per SCC including warranty for 5 pair of slings with suitable storage rack (50T, 40T, 20T, 10T, 5T) for the total scope defined as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order.	set	1	
1.9	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, forwarding, proper packing and delivery as per conditions mentioned in NIT including warranty as per BHEL NIT & tender technical specification (PE-TS-437-501-A004), amendment & agreements till placement of order for - Maintenance tools and tackles	set	1	
GRAND TOTAL				
Note: 1) Bidder to note that there shall be no implication for change in span &/or lift upto (+/-) 500 mm. 2) PG to suitably incorporate taxes, duties and other commercial aspects. 3) Bidder to quote the Prices in 'figures' along with corresponding 'words'. 4) Any variation in baylength will be adjusted based on unit rates arrived from 1.2,1.3,1.4 and 1.6 above.				

ANNEXURE II: PRICE BREAKUP FOR SERVICE PART

NAME OF PROJECT:		4x225 MW ARUN-3 HEP		Doc No:	PE-PF-437-501-A004
NAME OF PACKAGE:		50T/10T WORKSHOP AREA DOUBLE GIRDER EOT		Rev No:	0
TECHNICAL SPECIFICATION:		PE-TS-437-501-A004		Date of issue	Jan-22
S. No.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
1.0	Total lump sum firm price for SERVICE part comprising of site visit and Supervision of erection and commissioning of crane, sole plate, anchor bolts and required accessories for rail & DSL fixing, load & overload testing at site and training of operators at site for crane for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.				
2.0	Break Up Prices of 1.0				
2.1	Total lump sum prices for visits (should include travel expenses to/ fro site, visa/ insurance (if applicable), intermediary stay) for 50T/10T Double Girder Crane for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Nos.	2		
2.2	Total lump sum prices for SUPERVISION of erection & commissioning for crane, sole plate, anchor bolts and required accessories for rail & DSL fixing, load & overload and testing at site and training of operators at site for 50T/10T Double Girder Crane for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	days	10		
2.3	Total of 2.0 (2.1. to 2.2)				

Note:

- No. of days at site defined at S.N. 2.2 above shall be calculated on the basis of presence at site (travel time is excluded).
- No. of Visits and days for supervision of E & C, Load testing, erection of sole plate and DSL may vary depending on site requirement. Any variation in no. of visits & no. of days shall be exercised based on unit rate arrived from S.N. 2.1 & 2.2 above respectively.
- Bidder to quote the Prices in 'figures' along with corresponding 'words'.

ANNEXURE III: PRICE BREAKUP FOR ROUTINE MAINTENANCE/BREAKDOWN MAINTENANCE

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TECHNICAL SPECIFICATION:		PE-TS-437-501-A004	Date of iss	Jan-22		
S. No.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE	
1.0	Total lumpsum firm price for MAINTENANCE SERVICE including manpower, consumables, wear/tear parts etc. for crane after load/ overload testing with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.					
2.0	Break Up Prices of 1.0					
2.1	Total lump sum prices for visits (should include travel expenses to/ fro site, visa/ insurance (if applicable), intermediary stay) including required consumables & replacment of wear/ tear parts for Maintenance services for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Nos.	4			
2.2	Total lump sum prices for Maintenance services (in days) for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	days	20			
2.3	Total of 2.0 (2.1. to 2.2)					

Note:

- No. of days at site defined at S.N. 2.2 above shall be calculated on the basis of presence at site (travel time is excluded).
- No. of Visits and days for maintenance service may vary pending on site requirement. Any variation in no. of visits & no. of days shall be exercised based on unit rate arrived from S.N. 2.1 & 2.2 above respectively.
- Bidder to quote the Prices in 'figures' along with corresponding 'words'.
- Replacment of damaged items during maintenance have to be replaced by bidder which are already covered under requirement of warranty as defined under **SUPPLY PART** and detail as mentioned in BHEL NIT & tender technical specification, amendment & agreements till placement of order.

ANNEXURE IV: Mandatory Spares

NAME OF PROJECT:		4x225 MW ARUN-3 HEP	Doc No: PE-PF-437-501-A004
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TECHNICAL SPECIFICATION:		PE-TS-437-501-A004	Date of issue: Jan 22
Sl. No.	DESCRIPTION	Total Quantity	AMOUNT (TOTAL Ex-Works)
1)	Pair of brake shoe with lining for each size of brake used viz. D.C. operated E.M. or Hydraulic thruster operated.	2 Sets	
2)	Pair of brake linings with rivets for each size of brake used.	2 Sets	
3)	Main springs for each size of brake used.	2 Nos.	
4)	Brake coils for each size of brake used.	2 Sets	
5)	Thruster of each size used.	1 No. each	
6)	Pair of oil seals for each gear box used on crane.	2 Sets	
7)	Contactors of each size used.	2 Sets	
8)	Fixed & moving contacts of each size contactor used.	2 Sets	
9)	3 Nos. Coils for each size of contactor used.	1 Set each	
10)	Overload relay for each motor.	1 No.	
11)	3 No. fuse links of each sizes used on crane	2 Sets	
12)	1 Printed circuit breaker of each size and type	1 Set	
13)	Complete set of lamps for lightning and signals	1 Set	
14)	Fuse links of each size used	2 Sets	
15)	Segment of DSL including fitting, jointing, clamping etc.	Equivalent to 1 phase installed length	
16)	LT Bearings	50% of installed bearings in crane	
17)	CT Bearings	2 no.	
18)	Motor of each size	1 no.	
19)	Flood light illumination	50 % of installed	
20)	Load cell	1 set	
21)	Indication lamp of DSL	1 set	
22)	MCCB and Fuses	1 set each	
23)	Auxiliary relay, contactor and timers	5 nos. each	
24)	Communication Card/cable	One set for one complete crane	
25)	I/O Card	One set for one complete crane	
26)	Processors	One set for one complete crane	
27)	Indicating lamps	One set for one complete crane	
28)	VVVF drive	One set for one complete crane	
29)	Any other items for completeness of system.	10% of installation	
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.		
2	All mandatory spares shall be supplied as per the requirement of the specifications. In case any spare indicated in the specification is "not applicable" for particular equipment, then suitable applicable alternate spare has been offered / shall be supplied by the bidder without any financial implication."		
3	For quantities indicated in percentage, fractions are to be rounded-off to next higher integer.		
4	Bidder to write "Quoted / Not Applicable" against all items. Any item which is quoted as "not applicable" by the bidder in the above list and is found to be "applicable" at a later date shall be supplied by the bidder without any commercial and delivery implication.		
5	Any cell left blank in the unpriced schedule shall be treated as "Quoted" and is included in total price.		
6	For Sl.no 29 of mandatory spare list - Refer attached customer specification (sub section IA , clause no 23.1.1 (H))		

ANNEXURE-II DEVIATION SHEET (COST OF WITHDRAWAL)

PROJECT:-									
PACKAGE :-									
TENDER ENQUIRY :-									
Sl. No.	Volume/ Section	Page No.	Clause No.	Technical Specification/Tender Document No	Complete Description of Deviation	Cost of withdrawal of deviation to be entered by the bidder in	Reference of price Schedule of which Cost of Withdrawal of Deviation is applicable	Nature of cost of withdrawal of deviation (Positive/Negative)	Reasons for quoting deviation
1	TECHNICAL DEVIATION								
1.01									
1.02									
1.03									
1.04									
1.05									
1.06									
1.07									
1.08									
2	COMMERCIAL DEVIATION								
2.01									
2.02									
2.03									
2.04									
2.05									
2.06									
2.07									
2.08									

NOTES:

- Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
- All the bidders have to list out all their technical & commercial deviations (if any) in details in the above format.
- Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
- Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.
- Bidder shall furnish price copy of above format along with price bid.
- The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
- Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
- For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII of GCC, Rev-07 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
- Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
- All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
- Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
- In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
- In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.