

ANNEXURE-A

ANNEXURE-A						
NAME OF PROJECT:		2X20 MW RAHUGHAT HEP	Doc No:	PE-PF-479-501-A401		
NAME OF PACKAGE:		EOT CRANE	Rev No:	0		
TECHNICAL SPECIFICATION:		PE-TS-479-501-A401	Date of issue	Feb-21		
S. No.	DESCRIPTION	UNIT	QTY	TOTAL EX-WORK	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 end customer at manufacturer's works, 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, training of end customer at manufacturer's works 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			
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			
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			
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			
GRAND TOTAL				0		

Note:

1) Bidder to note that there shall be no implication with reference to change of span upto (+/-) 1000 mm and lift upto (+/-) 1000 mm as indicated in CCD.

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

ANNEXURE-I		Doc No:	PE-PF-479-501-A401		
		Rev No:	0		
		Date of issue	Feb-21		
NAME OF PROJECT:		2X20 MW RAHUGHAT HEP			
NAME OF PACKAGE:		EOT CRANES (< 100T CAPACITY)			
TECHNICAL SPECIFICATION:		PE-TS-479-501-A401			
S. No.	DESCRIPTION	UNIT	QTY	UNIT EX-WORKS	TOTAL EX-WORKS
	BROAD BREAK-UP OF S.N. 2.1 OF MAIN SHEET ARE AS A.0 & B.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 70T capacity double girder EOT crane with 19.25 M lift of main hook, 14.7 M span, 49.75 M bay length for POWER HOUSE along with 1 no. EH of 10T capacity (VFD operated for both motion hoisting and travel) , 22.95 m lift and 14.7m travel as defined in BHEL NIT & tender technical specification, amendment & agreements till placement of order.	no.	1		0
B.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 15T capacity single girder EOT crane with 7.2 M lift of main hook, 5M span, 12 M bay length for VALVE HOUSE crane as defined in BHEL NIT & tender technical specification, amendment & agreements till placement of order.	nos.	1		0
1.0	MAJOR BREAK-UP OF PRICES GIVEN IN A.0 ABOVE EXCLUDING TRAINING AT MANUFACTURER'S WORKS				0
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-479-501-A401), amendment & agreements till placement of order for - 70T capacity double girder EOT crane with 19.25 M lift of main hook, 14.7 M span for Power house	no.	1		0
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-479-501-A401), amendment & agreements till placement of order for - PVC shrouded bus bar type DSL for 49.75m baylength	set	1		0
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-479-501-A401), amendment & agreements till placement of order for - Gantry rail for 49.75m baylength	set	1		0
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-479-501-A401), amendment & agreements till placement of order for - Embedded parts, sole plate, anchor bolts and other accessories for rail fixing and insert plate and and anchor bolts or DSL fixing arrangement for 49.75m baylength	no.	1		0
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-479-501-A401), amendment & agreements till placement of order for - Temporary cable (half of the baylength+25m) for operation of crane during erection stage of the plant	set	1		0
1.6	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-479-501-A401), amendment & agreements till placement of order for - One no. Electric hoist of 10T capacity, lift 22.95 m, travel 14.7 m complete with VFD for all motion.	no.	1		0
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-479-501-A401), amendment & agreements till placement of order for - Cradle for load testing of crane	no.	1		0
1.8	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-479-501-A401), amendment & agreements till placement of order for - Maintenance tools and tackles	no.	1		0
	MAJOR BREAK-UP OF PRICES GIVEN IN B.0 ABOVE EXCLUDING TRAINING AT MANUFACTURER'S WORKS				0
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 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-479-501-A401), amendment & agreements till placement of order for - 15T capacity single girder EOT crane with 7.2 M lift of main hook, 5M span for Valve house	no.	1		0
2.2	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-479-501-A401), amendment & agreements till placement of order for - PVC shrouded bus bar type DSL for 12 m baylength	set	1		0
2.3	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-479-501-A401), amendment & agreements till placement of order for - Gantry rail for 12 m baylength	set	1		0

2.4	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-479-501-A401), 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 or DSL fixing arrangement for 12 m baylength	set	1		0
2.5	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-479-501-A401), amendment & agreements till placement of order for - Temporary cable (half of the baylength+25m) for operation of crane during erection stage of the plant	set	1		0
2.6	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-479-501-A401), amendment & agreements till placement of order for - Maintenance tools and tackles	no.	1		0
TRAINING AT MANUFACTURER'S WORKS AS DEFINED AT A.0 & B.0					
3.1	Total lump sum prices for Training of EOT crane at manufacturer's works for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	per man days	4		0
GRAND TOTAL					0
Note: 1) Bidder to note that there shall be no implication with reference to change of span & lift upto (+/-) 1000 mm 2) PG to consider and suitably incorporate taxes, duties and other commercial aspects. 3) Bidder to quote the Prices in 'figures' along with corresponding 'words'. 4) Any variation in length of DSL/rail due to change in bay length will be adjusted based on unit rates arrived from 1.2,1.3,1.4, 2.2,2.3,2.4 above					

ANNEXURE II: PRICE BREAKUP FOR SERVICE PART

NAME OF PROJECT:		2X20 MW RAHUGHAT HEP		Doc No:	PE-PF-479-501-A401
NAME OF PACKAGE:		EOT CRANE		Rev No:	0
TECHNICAL SPECIFICATION:		PE-TS-479-501-A401		Date of issue	Feb-21
S. No.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
1.0	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.				
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 Supervision of erection and commissioning for both 70T & 15T Cranes for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Nos.	4		0
2.2	Total lump sum prices for 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 both 70T & 15T Cranes for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	days	20		0
2.3	Total of 2.0 (2.1. to 2.2)				0

Note:

1. 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).
2. No. of Visits and days for supervision of E & C, Load testing, erection of sole plate and DSL 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.
3. Bidder to quote the Prices in 'figures' along with corresponding 'words'.

ANNEXURE III: PRICE BREAKUP FOR ROUTINE MAINTENANCE/BREAKDOWN MAINTENANCE

NAME OF PROJECT:	2X20 MW RAHUGHAT HEP	Doc No:	PE-PF-479-501-A401		
NAME OF PACKAGE:	EOT CRANE	Rev No:	0		
TECHNICAL SPECIFICATION:	PE-TS-479-501-A401	Date of issue	Feb-21		
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 both 70T & 15T Cranes for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Nos.	4		0
2.2	Total lump sum prices for Maintenance services (in days) for both 70T & 15T Cranes the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	days	20		0
2.3	Total of 2.0 (2.1. to 2.2)				0

Note:

1. 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).
2. 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.
3. Bidder to quote the Prices in 'figures' along with corresponding 'words'.
4. 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: PRICE BREAKUP FOR ROUTINE MAINTENANCE/BREAKDOWN
MAINTENANCE**

NAME OF PROJECT:		2X20 MW RAHUGHAT HEP	Doc No: PE-PF-479-501-A401
NAME OF PACKAGE:		EOT CRANE	Rev No: 0
TECHNICAL SPECIFICATION:		PE-TS-479-501-A401	Date of issue: Feb 21
Sl. No.	DESCRIPTION	Total Quantity	AMOUNT (TOTAL Ex-Works)
A.	70T POWER HOUSE CRANE WITH 10T ELECTRIC HOIST		
1)	Motor of each type used	1 no.	
2)	Bearings, bearing bushings, wear pins, etc., of each type used	1 set	
3)	Brake shoes and sleeves for each type of brake used	1 set	
4)	Gaskets and packings for each type used	1 set	
5)	Limit switches of each type used	1 set	
6)	Lamps, fuses, indicators, coils, thermal relays, resistors, capacitors and other important small parts of each type used	5 set	
7)	Insulators for travelling trolley wires	for one line	
8)	Grease nipples and/or cups for each size and type and grease gun with appropriate nozzle	5 no.	
9)	Switches, Contactors, Relays, etc	1 (one) complete assembly set	
10)	Finger tips and segments for controller	100%	
11)	Hoisting rope of proper length of each type used,	1 set	
12)	Solenoid for each type of brake used,	1 no.	
13)	Slings and lubricants used throughout	1 (one) complete set	
B.	15T VALVE HOUSE CRANE		
1)	Motor of each type used for the crane	1 no.	
2)	Bearings, bearing bushings, wear pins, etc., of each type used	1 set	
3)	Brake shoes and sleeves for each type of brake used	1 set	
4)	Gaskets and packings for each type used	1 set	
5)	Limit switches of each type used	1 set	
6)	Lamps, fuses, indicators, coils, thermal relays, resistors, capacitors and other important small parts of each type used	5 set	
7)	Insulators for travelling trolley wires	for one line	
8)	Grease nipples and/or cups for each size and type and grease gun with appropriate nozzle	5 no.	
9)	Switches, Contactors, Relays, etc	1 (one) complete assembly set	
10)	Finger tips and segments for controller	100%	
11)	Hoisting rope of proper length of each type used,	1 set	
12)	Solenoid for each type of brake used,	1 no.	
13)	Slings and lubricants used throughout the crane,	1 (one) complete set	
TOTAL B			0
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.		