			Doc No:	PE-PF-445-524-A001
	SUGGESTED PRICE FORMAT			0
				13.04.22
NAME OF	PROJECT:	SAGARDIGHI THERMAL POWER PROJECT, 1 X 660 MW UNIT NO 5, S	TAGE III.	
NAME OF	PACKAGE:	SINGLE GIRDER CRANE		
TECHNIC	AL SPECIFICATION:	PE-TS-445-524-A001		
S. No.	D	ESCRIPTION	UNIT	QTY
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART, SERVICE PART (SUPERVISION) & 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 (as applicable), fill of lubricants & consumables, mandatory spares 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.			spection / testing at vendor's & artup and commissioning as
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE			
2.1	Prices inclusive of all prevailing taxes, duties and other levie of drawing /documents including "As Built" drawings and Od testing at vendor's & sub-vendor's works, painting, maintena alongwith spares for erection, startup and commissioning sp for project and package specified above complete with all as & tender technical specification, amendment & agreements	Lot	1	
	2.2 Total lump sum firm price for SERVICE part comprising of Supervision of erection and commissioning of cranes 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 II).			1
	fabrication, assembly, inspection / testing (as applicable)	duties and other levies for Mandatory spares comprising of manufacture, at vendor's & sub-vendor's works, painting, forwarding, proper packing, ical specification above, amendment & agreements till placement of order.		1

Doc No: PE-PF-445-524-A001 SUGGESTED PRICE FORMAT Rev No: MAIN SUPPLY PART : ANNEXURE-I Date of issue 13.04.22 NAME OF PROJECT: SAGARDIGHI THERMAL POWER PROJECT, 1 X 660 MW UNIT NO 5, STAGE III. NAME OF PACKAGE: SINGLE GIRDER CRANE TECHNICAL SPECIFICATION: PE-TS-445-524-A001

I ECHNICAL SP	FE-13-449-524-AUU1			
S. No.	DESCRIPTION	UNIT	QTY	AMOUNT (Ex-Works)
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET.			
2.1	Break up of Prices 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, 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.	Lot	1	
2.1.1(a)	For: CWPH (outside area for screens and gates) (OUTDOOR) Type: Single Girder Semi-Gantry Crane Capacity: 5 T Span: 5.55 m Lift: 14.146 m Baylength: 34 m	No.	1	
2.1.1 (b)	Cable Reeling Drum (CRD) complete with all accessories for complete baylength.	Lot	1	
2.1.1 (c)	Rail complete with all accessories for complete baylength.	Lot	1	
2.1.1 (d)	VVVF Drives for all motions.	Set	1	
2.1.2 (a)	For: ACW & Fire Water Pump House (INDOOR) Type: Single Girder underslung Crane Capacity: 8 T Span: 5.5 m Lift: 13.7 m Baylength: 30m	No.	1	
2.1.2 (b)	PVC Shrouded bus bar type Cu DSL complete with all accessories for complete baylength	Lot	1	
2.1.2 (c)	VVVF Drives for all motions.	Set	1	
2.1.3 (a)	For: DG BUILDING (INDOOR) Type: Single Girder EOT Crane Capacity: 8T Span: 13.5 m Lift: 6.2 m Baylength: 23 m	No.	1	
2.1.3 (b)	PVC Shrouded bus bar type Cu DSL complete with all accessories for complete baylength.	Lot	1	
2.1.3 (c)	Rail complete with all accessories for complete baylength.	Lot	1	
2.1.3 (d)	VVVF Drives for all motions.	Set	1	
2.1.4 (a)	For: MRS Compressor House (INDOOR) Type: Single Girder EOT Crane Capacity: 3T Span: 4.5 m Lift: 5 m Baylength: 19 m	No.	1	
2.1.4 (b)	PVC Shrouded bus bar type Cu DSL complete with all accessories for complete baylength.	Lot	1	
2.1.4 (c)	Rail complete with all accessories for complete baylength.	Lot	1	
2.1.4 (d)	VVVF Drives for all motions.	Set	1	
2.1.5	COMISSIONING SPARES			
2.1.5 (a)	COMMISSIONING SPARES for 3T crane	Set	1	
2.1.5 (b)	COMMISSIONING SPARES for 5T crane	Set	1	
2.1.5 (c)	COMMISSIONING SPARES for 8T cranes	Set	2	
2.1.6	MAINTENANCE TOOLS AND TACKLES			
2.1.6 (a)	Maintenance tools and tackles for 3T crane	Set	1	
2.1.6 (b)	Maintenance tools and tackles for 5T crane	Set	1	
2.1.6 (c)	Maintenance tools and tackles for 8T cranes	Set	2	
2.1.7	MANDATORY SPARES			
2.1.7 (a)	Mandatory Spares for 5T SEMI GANTRY CRANE FOR CWPH (outside area for screens and gates) (OUTDOOR) as per Annexure III	Set	1	
	Mandatory Spares for 8T UNDERSLUNG CRANE FOR ACW & Fire Water Pump House (INDOOR) as per Annexure IV	Set	1	
2.1.7 (b)				
2.1.7 (b) 2.1.7 (c)	Mandatory Spares for 8T EOT CRANE FOR DG BUILDING (INDOOR) as per Annexure V Mandatory Spares for 3T EOT CRANE FOR MRS Compressor House (INDOOR) as per Annexure VI	Set	1	

- Note:
 1) Prices mentioned against clause no. 2.1.1 (b), 2.1.1 (c), 2.1.2 (b), 2.1.3 (b), 2.1.3 (c), 2.1.4 (b), 2.1.4 (c), above will be taken for price adjustment due to change in baylength, if any, during detailed engineering.
 2) There shall be no implication for change in span upto +/-1000mm and/or change in lift upto +/-1000mm.

Particulars of bidder / authorised representative

Name	Designation	Signature	Date	Company Seal

SUGGESTED PRICE FORMAT			Doc No:	PE-PF-445-524-A	A001
	SERVICE PART: ANNEX		Rev No:	0	
	CERVICE I ART. ARREA		Date of issue	13.04.22	
	OF PROJECT:	SAGARDIGHI THERMAL POWI	ER PROJECT, 1 X 660 MV	V UNIT NO 5, STAGE	E III.
NAME	OF PACKAGE:	SINGLE GIRDER CRANES			
TECH	NICAL SPECIFICATION:	PE-TS-445-524-A001			
S. No.	DESCRIPTION		UNIT	QTY	
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.2 (OF MAIN SHEET.			
2.2	Total lump sum firm price for SERVICE part co defined as per BHEL NIT & tender technical speci		-	g of cranes for crane	e for the total scope
2.2.1	Total lump sum prices for visits (should includinsurance (if applicable), intermediary stay etcommissioning for the total scope defined as pespecification, amendment & agreements till placer		3		
2.2.2	Total lump sum prices for Supervision of erection and commissioning (in days) for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.		No of days	9	
2.2.3	Total of 2.2 (2.2.2. to 2.2.3)				
Note: 1. No. of days at site defined at S.N. 2.2.2 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 shall depends upon site requirement. Any variation in no. of visits & no. of days shall be exercised based on unit rate arrived from S.N. 2.2.2 & 2.2.3 above respectively. 3. Bidder to quote the Prices in 'figures' along with corresponding 'words'.					
Partic	Particulars of bidder / authorised representative				
Nam	Designation	Signature		Date	Company Seal

		Doc No:	PE-PF-445-524-A001
	SUGGESTIVE PRICE FORMAT	Rev No:	0
	MANDATORY SPARES: ANNEXURE-III	Date of issue	4/13/2022
NAMEO	F PROJECT:	SAGARDIGHI THERMAL POWER PROJECT, 1	
	PF PACKAGE:	SINGLE GIRDER CRANES	A 660 MW UNIT NO 5, STAGE III.
		PE-TS-445-524-A001	1
	CAL SPECIFICATION:		la fan Harin da sinn
SI No.*	ler shall include in their offer, on basis of technical sp Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 5T SEMI
Si No.	bescription of the Equipment Fathage Name	Quality to be supplied for the rackage	GANTRY CRANE FOR CWPH (outside area for screens and gates) (OUTDOOR) Price (Ex Works)
6.01.00	EOT Cranes		
6.01.01	Long Travel Unit		
(i)	Set of Bearings of Wheels	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Long Travel end Shaft Bearings	1Set for each type & capacity of EOT	
(iv)	Seals for Travel Gear Box	1Set for each type & capacity of EOT	
(v)	Long Travel Brake Shoes Liners	2Sets for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix)	Motor	1 No. for each type & capacity of EOT	
	Cross Travel Unit	1 No. 101 each type & capacity of EO1	
6.01.02		15 at far each tune 9 conscitu of FOT	
(i)	Axle Bearings	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1Set for each type & capacity of EOT	
(iv)	Cross Travel end Shaft Bearing	1Set for each type & capacity of EOT	
(v)	Cross travel Brake Shoes Liners	2Sets for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix)	Motor	1 No. for each type & capacity of EOT	
6.01.03	Hoist		
(i)	Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook, Trolley wheels etc.]		
(ii)	Set of Bearings for Gear box	1 Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1 Set for each type & capacity of EOT	
(iv)	Aux. Hoist Gearbox Bearings	1 Set for each type & capacity of EOT	
(v)	Aux. Hoist Gearbox Seals	1 Set for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)]	2 Sets for each type & capacity of EOT	
(viii)	Main & Aux. Hoist Brake Springs	2 Sets for each type & capacity of EOT	
(ix)	Main & Aux. Hoist Brake shoe liners	2 Sets for each type & capacity of EOT	
(x)	Motor for Main Hoist & Auxiliary Hoist	1 No. for each type & capacity of EOT	
(xi)	Brake Coil	2 Sets for each type & capacity of EOT	
		100% of one crane for each type & capacity of	
(xii)	Wire Rope for Aux. Hook	ЕОТ	
6.01.04	Electrical		
(i)	Other Electrical Spares as applicable as per the Electrical List	Applicable Item & Quantity same as indicated in Electrical list 'B' Sl. no.7.08.00, 7.21.00	
(ii)	Limit Switches for:		
(a)	Main Hoist	1 Set for each type & capacity of EOT	
(b)	Aux. Hoist	1 Set for each type & capacity of EOT	
(c)	Cross Travel	1 Set for each type & capacity of EOT	
(d)	Long Travel	1 Set for each type & capacity of EOT	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 5T SEMI GANTRY CRANE FOR CWPH (outside area for screens and gates) (OUTDOOR) Price (Ex-Works)
(iii)	Master Controller for :		
(a)	Aux. Hoist	1 No. for each type & capacity of EOT	
(b)	Cross Travel	1 No. for each type & capacity of EOT	
(c)	Long Travel	1 No. for each type & capacity of EOT	
(iv)	VVVF Drive Complete Set for:		
(a)	Main Hoist	1 No. for each type & capacity of EOT	
(b)	Aux. Hoist	1 No. for each type & capacity of EOT	
(c)	Cross Travel	1 No. for each type & capacity of EOT	
(d)	Long Travel	1 No. for each type & capacity of EOT	
7.00.00	Electrical Items		
7.08.00	415V System		
7.08.01	11/0.415KV Transformer (for Each make, type and rating of Transformer)		
(i)	Door Limit Switch complete set	1 set (1 set means total requirement for one Transformer)	
(ii)	Neutral CT	1 no of each type and rating	
(iii)	Temperature scanner	1 no.	
(iv)	bhy	3 No	
(v)		3 No	
(vi)	LV neutral Bushing with metal parts, connectors and gaskets Post Insulator	1 No	
(vii)		1 set (1 set means total requirement for one Transformer)	
(viii)	Limb of complete LT & HT of temperature sensing devices	1 Set (1 set means total requirement for one Transformer)	
7.08.02	415V Air Circuit Breaker (for Each make, type and rating of ACB)	20% of total nos. or minimum 5 nos whichever is	
(i)	Trip Coil	higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(ii)	Closing Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(iii)	Spring Charging Motor	2 nos.	
(iv)	Spring Charging Motor with complete Mechanism	2 nos.	
(v)	Spring Charged Limit Switch	5 nos.	
(vi)	Thermal Overload for Spring Charging Motor	2 nos.	
(vii)	Main Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
	Arcing Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(ix)	Breaker Jaw Contact (Bus-end & Breaker- end) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(x)	Sliding Contact (Fixed & Moving)	3 sets.	
(xi)	Breaker Auxiliary Contact Block Arcing Chute	5 nos. 2 sets (1 set consists of 3 nos.) for each type and rating	
(xiii)	Plug Socket with Prefab cable	3 nos	
	Position Limit Switch	5 sets	
	415V PCC, PMCC, MCC, ACDB, DCDB, Elect. Control		
	Panel (For each PCC, PMCC, MCC, ACDB, DCDB and		
7.08.03	Elect. Control Panel) (applicable items of PCC, PMCC,		
	MCC, ACDB, DCDB and Elect. Control Panel shall be		
***	considered)		
(i)	Indicating Lamps complete assembly	2 man of analy marks and the c	
(a)	Red Blue	3 nos of each make and type.	
(b)	Green	3 nos of each make and type. 3 nos of each make and type.	
(d)	White	3 nos of each make and type.	
(e)	Amber	3 nos of each make and type.	
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SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 5T SEMI GANTRY CRANE FOR CWPH (outside area for screens and gates) (OUTDOOR) Price (Ex-Works)
(ii)	СТ	2 nos. for each make, type and Rating	
(iii)	Transducer	2 no for each make, type and Rating	
(iv)	Trip / Neutral / close Control Switch	2 nos. for each make, type and Rating	
(v)	Switch gear or MCC / Trial / Normal selector switch	2 nos. for each make, type and Rating	
(vi)	Local/Remote selector switch	2 nos. for each make, type and Rating	
(vii)	AC Supply On / Off Switch	1 no. for each make, type and Rating	
(viii)	DC Supply On / Off Switch	1 no. for each make, type and Rating	
(ix)	Motor Heater On /Off Switch	1 no. for each make, type and Rating	
(x)	DC Supply Source Selector Switch (3-position)	1 no. for each make, type and Rating	
(xi)	Ammeter Selector Switch	1 no. for each make, type and Rating	
(xii)	Voltmeter Selector Switch	1 no. for each make, type and Rating	
(xiii)	Voltmeter	2 no. for each make, type and Rating	
(xiv)	Ammeter	2 no. for each make, type and Rating	
(xv)	Auxiliary Control Contactor	· ·	
(a)	Auxiliary Control Contactor complete assembly	10% of total nos for each make, type and Rating.	
(b)	Auxiliary Control Contactor spare kits	10% of total nos. for each make, type and Rating.	
(c)	Auxiliary Control Contactor Coils	10% of total nos for each make, type and Rating.	
(xvi)	Power Contactor		
(a)	Power Contactor Complete Assembly	10% of total nos for each make, type and rating	
(b)	Power Contactor spare kits	10% of total nos for each make, type and Rating.	
(c)	Power Contactor Coils	10% of total nos for each make, type and Rating.	
(xvii)	мссв	5% of total nos. for each make, type and rating.	
(xviii)	МСВ	5% of total nos. for each make, type and rating.	
(xix)	Switch Fuse Unit (DC)	10% of total nos. for each make, type and rating.	
(xx)	Power Fuse	5% of total nos. for each make, type and rating.	
(xxi)	Control Fuse	5% of total nos. for each make, type and rating.	
(xxii)	Thermal Overload Relay	5% of total nos. for each make, type and rating.	
(xxii)	Sliding contact (Fixed and moving) Complete assembly	2 sets of each make, type and rating	
(xxiii)	Busbar to module Lira Contact assembly	2 sets of each make, type and rating (1 set means all 3 ph+ neutral)	
(xxiv)	Control and Aux. Transformer	1 no of each make, type and rating	
(XXV)	Delay Timer	2 no of each make, type and rating	
(xxvi)	Power Terminal Block	2 sets for each make, type and rating	
(xxvii)	Control Terminal Block	2 sets for each make, type and rating	
(xxviii)	End plate for Power and Control terminal block	2 sets for each make, type and rating	
(xxix)	Energy meter	1 no for each make, type and rating	
(xxx)	Relays (Other than numerical relay):		
(a)	Conventional (Electromagnetic/Static type) Relay	2 no for each make, type and rating	
(b)	Aux. relays & Lock out relays & TIMERS	2 nos for each make, type and rating	
(xxxi)	MCCB Status (On/off) Monitoring Switch/Contact	2 nos for each make, type and rating	
(xxxii)	Push Button (On/Off) Complete Assembly	2 nos for each make, type and rating	
(xxxiii)	Annunciation Facia with lamps complete	1 set for each make, type and rating	
7.21.00	Motor		
7.21.02	415 Volt Motor		
(i)	End Shield Cover Driving & Non-Driving End	1 set for each type and rating of Motor	
(ii)	Heaters	2 sets for each type and rating of motor	
/:::\	Bearings (DE and NDE) for each type and rating of	2 cats	
(iii)	motor	2 sets	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 5T SEMI GANTRY CRANE FOR CWPH (outside area for screens and gates) (OUTDOOR) Price (Ex-Works)	
(iv)	Cooling Fan for all type and rating of LT motors	One (1) set		
(v)	Dust seals and gaskets for each type of motors	1 Set		
(vi)	Motor Terminal Block	1 no. for each type and rating of Motor		
(vii)	Complete Set of Coupling	1 set for each type and rating		
NOTES:				
1	Bidder to refer Notes in Annexure-II of Technical Specific	ation.		
2	*Refer Volume IIA, Reference clause of the "Customer Sp	pecification".		
Particula	rs of bidder / authorised representative			
Name	Designation	Signature & company seal		

NAME OF PROJECT: SAGANDIGH I THERMAL POWER PROJECT, 1 X 680 MW UNIT NO 5, STAGE III NAME OF PROJECT: SAGANDIGH I THERMAL POWER PROJECT, 1 X 680 MW UNIT NO 5, STAGE III SINGLE GIRDER CRAMES THE DIGGER SHALL INCLUDE IN THE RECOGNIZATION: The DIGGER SHALL INCLUDE IN THE RECOGNIZATION: Description of the Equipment/Package Name Obscription of the Including Name Obscription of the Including Name Obscripti				1
Date of issue NAME OF PROJECT: SAGARDIGHT THERMAL POWER PROJECT, 1 X 680 MW UNIT NO 5, STAGE III MANE OF PACKAGE: SINGLE GRORDER CRANES TECHNICAL SPECIFICATION: PETS-445-524-A001 PETS-445-524-A001 PETS-445-524-A001 PETS-445-524-A001 PETS-445-524-A001 PETS-445-524-A001 PETS-445-524-A001 The bidder shall include in their offer, on basis of technical specification, the mandatory sparses as applicable for their design. SNO- BOUND CONTROL OF THE Equipment/Package Name COUNTRY TO A CONTROL OF THE Equipment/Package Name COUNTRY TO A CONTROL OF THE Equipment Package COUNTRY TO A CONTROL OF THE Equipment Package COUNTRY TO A CONTROL OF THE PACKAGE NAME AND THE PAC		SUGGESTIVE PRICE FORMAT	Doc No:	PE-PF-445-524-A001
NAME OF PROJECT: SAGARDIGHT THERMAL POWER PROJECT. 1.7 600 MW UNIT NO 5, STAGE III NAME OF PACKAGE: SINGLE GIRCREC CRAVES SINGLE GIRCREC CRAVES FETS-452-4-2001 The bidder shall include in their offer, on basis of technical opeofication, the mandatory sparse as applicable for their design. The bidder shall include in their offer, on basis of technical opeofication, the mandatory sparse as applicable for their design. Generity to be supplied for the Package United States of Comment of the Equipment/Package Name Set of Rearings of Wheels Set of Rearings of Wheels Set of Rearings of Wheels Set of Rearings and Set of Rearings Set for each type & capacity of EOT Comment of Package Name Sets for each type & capacity of EOT Sets		MANDATORY SPARES: ANNEXURE-IV	Rev No:	0
NAME OF PROJECT: SAGARDIGHT THERMAL POWER PROJECT, 1X 600 MW UNIT NO 5, STAGE III NAME OF PROJECT CANCAGE: PECHNICAL SPECIFICATION: PCTS-445-524-A001 The bidder shall include in their offer, on basis of sechnical specification, the mandatory spares as applicable for their design. SNO.* Description of the Equipment/Package Name Casesthy to be supplied for the Package Unit of their design. STAGE III Cong Travel Unit Cong Travel Unit Cong Travel Unit Cong Travel Earls Enters Set for each type & capacity of EOT (V) Sasis for Travel Garl Box (V) Sasis for Travel Garl Box Set for each type & capacity of EOT (VI) Sasis of Travel Garl Box Sets for each type & capacity of EOT (VI) Sasis of Sets of Rearings Set for each type & capacity of EOT (VI) Sasis of Sets of Package (VI) Sasis of Sets of Sets of Package (VI) Sasis of Sets of Sets of Sets of Package (VI) Sasis of Sets			Date of issue	4/12/2022
NAME OF PACKAGE: SINGLE GIRDER CRANES PETS-445-524-A001 The bidder shall include in their offer, on basis of technical specification, the mandatory spares as applicable for their design. Total tr. wowers must roll at home the full present/frackage Name Claimbity to be supplied for the Package Understund Crake From Authority to the supplied for the Package On 1.01 On 1.01 On 1.01 Set of Searing of Wheels Set of Pearings of Wheels No. for each type & Capacity of EOT Set of Pearings of Pearings of EOT Set	NAMEO	E DDO IECT.	SACARDIGUITHERMAL BOWER BROJECT 1	
TECHNICAL SPECIFICATION: The bidder shall include in their offer, on basis of technical specification, the mandatory spares as applicable for their design. The bidder shall include in their offer, on basis of technical specification, the mandatory spares as applicable for their design. The bidder shall include in their offer, on basis of technical specification, the mandatory spares as applicable for their design. Description of the Equipment/Package Name Quantity to be supplied for the Package Capacity of ECT			•	A 660 MW UNIT NO 5, STAGE III.
The bidder's shall include in their offer, on basis of technical specification, the mandatory sparse as applicable for the ride design. Description of the fquipment/Prakage Name Country of the fquipment Name Name Country of the fquipment of the fquipment of th				1
Description of the Equipment/Package Name Quantity to be supplied for the Package TOTAL EX-WORKS PRICE ROW A Fire Workship				le for their design
South See Searings of Wheels Set for each type & capacity of EOT				TOTAL EX - WORKS PRICE FOR 8T UNDERSLUNG CRANE FOR ACW & Fire Water Pump House (INDOOR)
South See Searings of Wheels Set for each type & capacity of EOT				
(ii) Set of Bearings of Wheels (iii) Long Travel end Shaft Bearings (iv) Long Travel Endes Shoes Liners (iv) Long Travel Endes Liners (iv) Long Travel Endes Liners (iv) Line Line Line Line Line Line Line Line				
(iii) Long Travel end Shafe Bearings (iii) Long Travel end Shafe Bearings (iv) Seals for Travel Gear Box (iv) Long Long Travel Gear Box (iv) Long Travel Gear Gear Box (iv) Long Travel G			46 . 6	
(iii) Long Travel end Shaft Bearings (iv) Seals for Travel Gear Box (v) Long Travel Brake Shoes Liners (vi) Long Travel Brake Shoes Liners (vi) Explicable) (viii) Brake Spring (viiii) Brake Coil (iv) Motor (iv) Asia Bearings (iv) Asia Bearing (iv) Asia Bearings (iv) Asia Bearing				
(iv) Seals for Travel Bear Box	· · ·	Š		
(v) Long Travel Brake Shoes Liners (vi) Brake Spring (iii) Set of Searbox Bearings (iii) Set for each type & capacity of EOT (ivi) Motor (iii) Set of Gearbox Bearings (iiii) Set of seals for Gearbox Seas (ivi) Set for each type & capacity of EOT (ivi) Brake Spring (ivi) Motor (ivi) Motor (ivi) Aule Bearings (ivi) Set of Gearbox Bearings with Sleeves (ivi) Set of Gearbox Seas (ivi) Set for each type & capacity of EOT (ivi) Cross Travel Garbox Seas (ivi) Set for each type & capacity of EOT (ivi) Cross Travel Brake Shoes Liners (ivi) Brake Spring (ivi) Brake Spring (ivi) Set of each type & capacity of EOT (ivi) Brake Spring (ivi) Brake Spring (ivi) Brake Spring (ivi) Brake Spring (ivi) Set of Gearbox Seas (ivi)				
Complete Set of Hydraulic Thruster for Brakes (if applicable)	- ' '	•		
Vii) Brake Spring 1 Set for each type & capacity of EOT	(v)	S	2Sets for each type & capacity of EOT	
Vivil Brake Coil 25ets for each type & capacity of EOT	(vi)	· · · · · · · · · · · · · · · · · · ·	1 No. for each type & capacity of EOT	
(iv) Adva Bearings	(vii)	Brake Spring	1Set for each type & capacity of EOT	
(i) Asde Bearings	(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(i) Akle Bearings (ii) Set of Gearbox Bearings with Sleeves (iii) Set of Gearbox Bearings with Sleeves (iii) Set of Seals for Gearbox (iv) Cross Travel end Shaft Bearing (v) Cross travel end Shaft Bearing (vi) Cross travel Brake Shoes Liners (vi) Complete Set of Hydraulic Thruster for Brakes (if applicable) (vii) Brake Spring (viii) Brake Spring (viii) Brake Coil (ix) Motor (ix) Motor (ix) Motor (ix) Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook, Trolley wheels etc.] (viii) Set of Bearings for Gear box (ix) Set of Seals for Gearbox (ix) Set of Seals for Gearbox (ix) Aux. Hoist Gearbox Seals (ix) Aux. Hoist Gearbox Seals (ix) Aux. Hoist Brake Shones [Brakes shoes with lining for each size of thy Housel (Pair Cach Stripe) (viii) Main & Aux. Hoist Brake Shones [Brake shoes with lining for each size of the Rear (Pair Cach Stripe) (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Mine Rope for Aux Hook (viii) Mire Rope for Aux. Hook (viii) Limit Switches for: (a) Main Hoist (b) Aux. Hoist (c) Cross Travel (c) Lise for each type & capacity of EOT (b) Aux. Hoist	(ix)	Motor	1 No. for each type & capacity of EOT	
(iii) Set of Gearbox Bearings with Sleeves	6.01.02	Cross Travel Unit		
(iii) Set of Gearbox Bearings with Sleeves	(i)	Axle Bearings	1Set for each type & capacity of EOT	
(iii) Set of seals for Gearbox (iv) Cross Travel end Shaft Bearing (ivi) Cross Travel Brake Shoes Liners (ivi) Cromplete Set of Hydraulic Thruster for Brakes (if applicable) (ivii) Brake Spring (iviii) Brake Coil (ix) Motor (ix) Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook, 1 Set for each type & capacity of EOT (iv) Aux. Hoist Gearbox (iv) Set of Seals for Gearbox (iv) Set of Seals for Gearbox (iv) Aux. Hoist Gearbox Bearings (iv) Aux. Hoist Gearbox Seals (iv) Aux. Hoist Gearbox Seals (iv) Applicable) (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (iv) Main & Aux. Hoist Brake Shoes [Brake		Set of Gearbox Bearings with Sleeves		
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(iii) Set of seals for Gearbox	(i)	Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook,		
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(vi) applicable) (vii) Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)] (viii) Main & Aux. Hoist Brake Springs (viii) Main & Aux. Hoist Brake Springs (viii) Main & Aux. Hoist Brake Springs (viii) Main & Aux. Hoist Brake shoe liners (viii) Motor for Main Hoist & Auxiliary Hoist (viii) Brake Coil (viii) Wire Rope for Aux. Hook (viii) Wire Rope for Aux. Hook (viii) Wire Rope for Aux. Hook (viii) Uimit Switches for: (viii) Limit Switches for: (viiii) Limit Switches for: (viiiii) Limit Switches for: (viiiiii) Limit Switches for: (viiiii) Limit Switches for: (viiiiii) Limit Switches for: (viiiiii) Limit Switches for: (viiiiiii) Limit Switches for: (viiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	(v)	Aux. Hoist Gearbox Seals	1 Set for each type & capacity of EOT	
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(viii) Main & Aux. Hoist Brake Springs 2 Sets for each type & capacity of EOT (ix) Main & Aux. Hoist Brake shoe liners 2 Sets for each type & capacity of EOT (x) Motor for Main Hoist & Auxiliary Hoist 1 No. for each type & capacity of EOT (xi) Brake Coil 2 Sets for each type & capacity of EOT (xii) Wire Rope for Aux. Hook 100% of one crane for each type & capacity of EOT 6.01.04 Electrical (i) Other Electrical Spares as applicable as per the Electrical List Applicable Item & Quantity same as indicated in Electrical list 'B' Sl. no.7.08.00, 7.21.00 (ii) Limit Switches for: 1 Set for each type & capacity of EOT (a) Main Hoist 1 Set for each type & capacity of EOT (b) Aux. Hoist 1 Set for each type & capacity of EOT (c) Cross Travel 1 Set for each type & capacity of EOT	(vii)		2 Sets for each type & capacity of EOT	
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(xii) Wire Rope for Aux. Hook EOT 6.01.04 Electrical Other Electrical Spares as applicable as per the Electrical list 'B' Sl. no.7.08.00, 7.21.00 (ii) Limit Switches for: (a) Main Hoist (b) Aux. Hoist (c) Cross Travel EOT Applicable Item & Quantity same as indicated in Electrical list 'B' Sl. no.7.08.00, 7.21.00 1 Set for each type & capacity of EOT 1 Set for each type & capacity of EOT	(xi)	Brake Coil	2 Sets for each type & capacity of EOT	
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(b) Aux. Hoist 1 Set for each type & capacity of EOT (c) Cross Travel 1 Set for each type & capacity of EOT	(ii)	Limit Switches for:		
(c) Cross Travel 1 Set for each type & capacity of EOT	(a)	Main Hoist	1 Set for each type & capacity of EOT	
	(b)	Aux. Hoist	1 Set for each type & capacity of EOT	
(d) Long Travel 1 Set for each type & capacity of EOT	(c)	Cross Travel	1 Set for each type & capacity of EOT	
	(d)	Long Travel	1 Set for each type & capacity of EOT	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T UNDERSLUNG CRANE FOR ACW & Fire Water Pump House (INDOOR) Price (EX -Works) -
(iii)	Master Controller for :		
(a)	Aux. Hoist	1 No. for each type & capacity of EOT	
(b)	Cross Travel	1 No. for each type & capacity of EOT	
(c)	Long Travel	1 No. for each type & capacity of EOT	
(iv)	VVVF Drive Complete Set for:	. ,	
(a)	Main Hoist	1 No. for each type & capacity of EOT	
(b)	Aux. Hoist	1 No. for each type & capacity of EOT	
(c)	Cross Travel	1 No. for each type & capacity of EOT	
(d)	Long Travel	1 No. for each type & capacity of EOT	
7.00.00	Electrical Items		
7.08.00	415V System		
7.08.01	11/0.415KV Transformer (for Each make,type and rating of Transformer)		
(i)	Door Limit Switch complete set	1 set (1 set means total requirement for one Transformer)	
(ii)	Neutral CT	1 no of each type and rating	
(iii)	Temperature scanner	1 no.	
(iv)	bhy	3 No	
(v)	LV Bushing with metal parts, connectors and gaskets	3 No	
(vi)	LV neutral Bushing with metal parts, connectors and gaskets	1 No	
(vii)	Post Insulator	1 set (1 set means total requirement for one Transformer)	
(viii)	Limb of complete LT & HT of temperature sensing devices	1 Set (1 set means total requirement for one Transformer)	
7.08.02	415V Air Circuit Breaker (for Each make, type and rating of ACB)		
(i)	Trip Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(ii)	Closing Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(iii)	Spring Charging Motor	2 nos.	
(iv)	Spring Charging Motor with complete Mechanism	2 nos.	
(v)	Spring Charged Limit Switch	5 nos.	
(vi)	Thermal Overload for Spring Charging Motor	2 nos.	
(vii)	Main Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and	
(viii)	Arcing Contact (Fixed and moving) assembly	rating 5 sets (1 set consists of 3 nos.) for each type and	
(ix)	Breaker Jaw Contact (Bus-end & Breaker-	rating 5 sets (1 set consists of 3 nos.) for each type and	
(v)	end) assembly Sliding Contact (Fixed & Moving)	rating	
(x) (xi)	Breaker Auxiliary Contact Block	3 sets. 5 nos.	
(xii)	Arcing Chute	2 sets (1 set consists of 3 nos.) for each type and rating	
(xiii)	Plug Socket with Prefab cable	3 nos	
(xiv)	Position Limit Switch	5 sets	
	415V PCC, PMCC, MCC, ACDB, DCDB, Elect. Control		
	Panel (For each PCC, PMCC, MCC, ACDB, DCDB and		
7.08.03	Elect. Control Panel) (applicable items of PCC, PMCC,		
	MCC, ACDB, DCDB and Elect. Control Panel shall be		
/:\	considered)		
(i) (a)	Indicating Lamps complete assembly Red	3 nos of each make and type.	
(b)	Blue	3 nos of each make and type.	
(c)	Green	3 nos of each make and type.	
(d)	White	3 nos of each make and type.	
(e)	Amber	3 nos of each make and type.	
<u> </u>	1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T UNDERSLUNG CRANE FOR ACW & Fire Water Pump House (INDOOR) Price (Ex-Works)
(ii)	CT	2 nos. for each make, type and Rating	
(iii)	Transducer	2 no for each make, type and Rating	
(iv)	Trip / Neutral / close Control Switch	2 nos. for each make, type and Rating	
(v)	Switch gear or MCC / Trial / Normal selector	2 nos. for each make, type and Rating	
(*)	switch	2 noon for odon make, type and realing	
(vi)	Local/Remote selector switch	2 nos. for each make, type and Rating	
(vii)	AC Supply On / Off Switch	1 no. for each make, type and Rating	
(viii)	DC Supply On / Off Switch	1 no. for each make, type and Rating	
(ix)	Motor Heater On /Off Switch	1 no. for each make, type and Rating	
(x)	DC Supply Source Selector Switch (3-position)	1 no. for each make, type and Rating	
(xi)	Ammeter Selector Switch	1 no. for each make, type and Rating	
(xii)	Voltmeter Selector Switch	1 no. for each make, type and Rating	
(xiii)	Voltmeter	2 no. for each make, type and Rating	
(xiv)	Ammeter	2 no. for each make, type and Rating	
(XV)	Auxiliary Control Contactor	is. sast many, type and rading	
(a)	Auxiliary Control Contactor complete assembly	10% of total nos for each make, type and Rating.	
. ,			
(b)	Auxiliary Control Contactor spare kits	10% of total nos. for each make, type and Rating.	
(c)	Auxiliary Control Contactor Coils	10% of total nos for each make, type and Rating.	
(xvi)	Power Contactor		
(a)	Power Contactor Complete Assembly	10% of total nos for each make, type and rating	
(b)	Power Contactor spare kits	10% of total nos for each make, type and Rating.	
(c)	Power Contactor Coils	10% of total nos for each make, type and Rating.	
(xvii)	MCCB	5% of total nos. for each make, type and rating.	
(xviii)	МСВ	5% of total nos. for each make, type and rating.	
(xix)	Switch Fuse Unit (DC)	10% of total nos. for each make, type and rating.	
(xx)	Power Fuse	5% of total nos. for each make, type and rating.	
(xxi)	Control Fuse	5% of total nos. for each make, type and rating.	
(xxii)	Thermal Overload Relay	5% of total nos. for each make, type and rating.	
(xxii)	Sliding contact (Fixed and moving) Complete assembly	2 sets of each make, type and rating	
(xxiii)	Busbar to module Lira Contact assembly	2 sets of each make, type and rating (1 set means all 3 ph+ neutral)	
(xxiv)	Control and Aux. Transformer	1 no of each make, type and rating	
(xxv)	Delay Timer	2 no of each make, type and rating	
(xxvi)	Power Terminal Block	2 sets for each make, type and rating	
(xxvii)	Control Terminal Block	2 sets for each make, type and rating	
(xxviii)	End plate for Power and Control terminal block	2 sets for each make, type and rating	
(xxix)	Energy meter	1 no for each make, type and rating	
(xxx)	Relays (Other than numerical relay):		
(a)	Conventional (Electromagnetic/Static type) Relay	2 no for each make, type and rating	
(b)	Aux. relays & Lock out relays & TIMERS	2 nos for each make, type and rating	
(xxxi)	MCCB Status (On/off) Monitoring Switch/Contact	2 nos for each make, type and rating	
(xxxii)	Push Button (On/Off) Complete Assembly	2 nos for each make, type and rating	
(xxxiii)	Annunciation Facia with lamps complete	1 set for each make, type and rating	
7.21.00	Motor		
7.21.02	415 Volt Motor		
(i)	End Shield Cover Driving & Non-Driving End	1 set for each type and rating of Motor	
(ii)	Heaters	2 sets for each type and rating of motor	
	Bearings (DE and NDE) for each type and rating of		
(iii)	motor	2 sets	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T	
			UNDERSLUNG CRANE FOR ACW & Fire	
			Water Pump House (INDOOR)	
			Price (Ex Works)	
(iv)	Cooling For for all type and rating of LT maters	One (1) set		
(iv)	Cooling Fan for all type and rating of LT motors	One (1) set		
(v)	Dust seals and gaskets for each type of motors	1 Set		
(vi)	Motor Terminal Block	1 no. for each type and rating of Motor		
(vii)	Complete Set of Coupling	1 set for each type and rating		
NOTES:				
1	Bidder to refer Notes in Annexure-II of Technical Specific	cation.		
2	*Refer Volume IIA, Reference clause of the "Customer Sp	pecification".		
Particula	rs of bidder / authorised representative			
		2:		
Name	Designation	Signature &		
- valie	Dosignation	company seal		
1				

	OUGGESTIVE PRIOR FORMAT	Doc No:	PE-PF-445-524-A001
	SUGGESTIVE PRICE FORMAT	Rev No:	0
MANDATORY SPARES: ANNEXURE-V		Date of issue	4/13/2022
NAME OF PROJECT:		SACARDIGHI THERMAL BOWER PROJECT 1	
NAME OF PROJECT:		SAGARDIGHI THERMAL POWER PROJECT, 1 SINGLE GIRDER CRANES	X 660 MW UNIT NO 5, STAGE III.
TECHNICAL SPECIFICATION:			1
		PE-TS-445-524-A001	
SI No.*	er shall include in their offer, on basis of technical sp Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T EOT CRANE FOR DG BUILDING (INDOOR) Price (Ex-Works)
6.01.00	EOT Cranes		
6.01.01	Long Travel Unit		
(i)	Set of Bearings of Wheels	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Long Travel end Shaft Bearings	1Set for each type & capacity of EOT	
	Seals for Travel Gear Box	,, , ,	
(iv)	Long Travel Brake Shoes Liners	1Set for each type & capacity of EOT 2Sets for each type & capacity of EOT	
(v)	Complete Set of Hydraulic Thruster for Brakes (if	Zoeto for each type & capacity of EOT	
(vi)	applicable)	1 No. for each type & capacity of EOT	
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix)	Motor	1 No. for each type & capacity of EOT	
6.01.02	Cross Travel Unit		
(i)	Axle Bearings	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1Set for each type & capacity of EOT	
(iv)	Cross Travel end Shaft Bearing	1Set for each type & capacity of EOT	
(v)	Cross travel Brake Shoes Liners	2Sets for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix)	Motor	1 No. for each type & capacity of EOT	
6.01.03	Hoist	2 Horrion education type of education of 20 h	
(i)	Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook, Trolley wheels etc.]		
(ii)	Set of Bearings for Gear box	1 Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1 Set for each type & capacity of EOT	
(iv)	Aux. Hoist Gearbox Bearings	1 Set for each type & capacity of EOT	
(v)	Aux. Hoist Gearbox Seals	1 Set for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)]	2 Sets for each type & capacity of EOT	
(viii)	Main & Aux. Hoist Brake Springs	2 Sets for each type & capacity of EOT	
(ix)	Main & Aux. Hoist Brake shoe liners	2 Sets for each type & capacity of EOT	
(x)	Motor for Main Hoist & Auxiliary Hoist	1 No. for each type & capacity of EOT	
(xi)	Brake Coil	2 Sets for each type & capacity of EOT	
(xii)	Wire Rope for Aux. Hook	100% of one crane for each type & capacity of EOT	
6.01.04	Electrical		
(i)	Other Electrical Spares as applicable as per the Electrical List	Applicable Item & Quantity same as indicated in Electrical list 'B' Sl. no.7.08.00, 7.21.00	
(ii)	Limit Switches for:		
(a)	Main Hoist	1 Set for each type & capacity of EOT	
(b)	Aux. Hoist	1 Set for each type & capacity of EOT	
(c)	Cross Travel	1 Set for each type & capacity of EOT	
(d)	Long Travel	1 Set for each type & capacity of EOT	
(iii)	Master Controller for :	The same of the sa	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T EOT CRANE FOR DG BUILDING (INDOOR) Price (E x Works)
(a)	Aux. Hoist	1 No. for each type & capacity of EOT	
(b)	Cross Travel	1 No. for each type & capacity of EOT	
(c)	Long Travel	1 No. for each type & capacity of EOT	
(iv)	VVVF Drive Complete Set for:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(a)	Main Hoist	1 No. for each type & capacity of EOT	
(b)		1 No. for each type & capacity of EOT	
(c)	Cross Travel	1 No. for each type & capacity of EOT	
(d)	Long Travel	1 No. for each type & capacity of EOT	
7.00.00	Electrical Items		
7.08.00	415V System		
7.08.01	11/0.415KV Transformer (for Each make,type and rating of Transformer)		
(i)	Door Limit Switch complete set	1 set (1 set means total requirement for one Transformer)	
(ii)	Neutral CT	1 no of each type and rating	
(iii)	Temperature scanner	1 no.	
(iv)	bhy	3 No	
(v)	LV Bushing with metal parts, connectors and gaskets		
(vi)	LV neutral Bushing with metal parts, connectors	1 No	
(vii)	and gaskets Post Insulator	1 set (1 set means total requirement for one Transformer)	
(viii)	Limb of complete LT & HT of temperature sensing devices	1 Set (1 set means total requirement for one Transformer)	
7.08.02	415V Air Circuit Breaker (for Each make, type and rating of ACB)		
(i)	Trip Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(ii)		20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
(iii)	Spring Charging Motor	2 nos.	
(iv)	Spring Charging Motor with complete Mechanism	2 nos.	
(v)	Spring Charged Limit Switch	5 nos.	
(vi)	Thermal Overload for Spring Charging Motor	2 nos.	
(vii)	Main Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(viii)	Arcing Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(ix)	end) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(x)	Sliding Contact (Fixed & Moving)	3 sets.	
(xi)	Breaker Auxiliary Contact Block	5 nos.	
(xii)	Arcing Chute	2 sets (1 set consists of 3 nos.) for each type and rating	
(xiii)	Plug Socket with Prefab cable	3 nos	
	Position Limit Switch	5 sets	
7.08.03	415V PCC, PMCC, MCC, ACDB, DCDB, Elect. Control Panel (For each PCC, PMCC, MCC, ACDB, DCDB and Elect. Control Panel) (applicable items of PCC, PMCC, MCC, ACDB, DCDB and Elect. Control Panel shall be considered)		
(i)	Indicating Lamps complete assembly		
(a)	Red	3 nos of each make and type.	
(b)	Blue	3 nos of each make and type.	
(c)	Green	3 nos of each make and type.	
(d)	White	3 nos of each make and type.	
(e)	Amber	3 nos of each make and type.	
(ii)		2 nos. for each make, type and Rating	
(iii)	Transducer	2 no for each make, type and Rating	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T EOT CRANE FOR DG BUILDING (INDOOR) Price (E x-Works)
(iv) (v)	Trip / Neutral / close Control Switch Switch gear or MCC / Trial / Normal selector switch	2 nos. for each make, type and Rating 2 nos. for each make, type and Rating	
(vi)	Local/Remote selector switch	2 nos. for each make, type and Rating	
(vii)	AC Supply On / Off Switch	1 no. for each make, type and Rating	
(viii)	DC Supply On / Off Switch	1 no. for each make, type and Rating	
(ix) (x)	Motor Heater On /Off Switch DC Supply Source Selector Switch (3- position)	1 no. for each make, type and Rating 1 no. for each make, type and Rating	
(*)	Bo Supply Source Science Switch (6 position)	The for each make, type and realing	
(xi)	Ammeter Selector Switch	1 no. for each make, type and Rating	
(xii)	Voltmeter Selector Switch Voltmeter	1 no. for each make, type and Rating	
(xiii) (xiv)	Ammeter	2 no. for each make, type and Rating 2 no. for each make, type and Rating	
(XV)	Auxiliary Control Contactor	Z no. for each make, type and realing	
(a)	Auxiliary Control Contactor complete assembly	10% of total nos for each make, type and Rating.	
(b)	Auxiliary Control Contactor spare kits	10% of total nos. for each make, type and Rating.	
(c)	Auxiliary Control Contactor Coils	10% of total nos for each make, type and Rating.	
(xvi)	Power Contactor Power Contactor Complete Assembly	10% of total nos for each make, type and rating	
(a)	Power Contactor Complete Assembly	10% of total flos for each make, type and fatting	
(b)	Power Contactor spare kits	10% of total nos for each make, type and Rating.	
(c)	Power Contactor Coils	10% of total nos for each make, type and Rating.	
(xvii)	MCCB	5% of total nos. for each make, type and rating.	
(xviii)	MCB	5% of total nos. for each make, type and rating.	
(xix)	Switch Fuse Unit (DC)	10% of total nos. for each make, type and rating.	
(xx)	Power Fuse	5% of total nos. for each make, type and rating.	
(xxi)	Control Fuse	5% of total nos. for each make, type and rating.	
(xxii)	Thermal Overload Relay	5% of total nos. for each make, type and rating.	
(xxii)	Sliding contact (Fixed and moving) Complete assembly	2 sets of each make, type and rating	
	Busbar to module Lira Contact assembly	2 sets of each make, type and rating (1 set means all 3 ph+ neutral)	
(xxiv)	Control and Aux. Transformer	1 no of each make, type and rating	
(xxv) (xxvi)	Delay Timer Power Terminal Block	2 no of each make, type and rating 2 sets for each make, type and rating	
(xxvii)	Control Terminal Block	2 sets for each make, type and rating	
(xxviii)	End plate for Power and Control terminal block	2 sets for each make, type and rating	
(xxix)	Energy meter	1 no for each make, type and rating	
(xxx)	Relays (Other than numerical relay): Conventional (Electromagnetic/Static type) Relay	2 no for each make, type and rating	
(a) (b)	Aux. relays & Lock out relays & TIMERS	2 no for each make, type and rating 2 nos for each make, type and rating	
(xxxi)	MCCB Status (On/off) Monitoring Switch/Contact	2 nos for each make, type and rating	
(xxxii)	Push Button (On/Off) Complete Assembly	2 nos for each make, type and rating	
(xxxiii)	Annunciation Facia with lamps complete	1 set for each make, type and rating	
7.21.00 7.21.02	Motor 415 Volt Motor		
(i)	End Shield Cover Driving & Non-Driving End	1 set for each type and rating of Motor	
(ii)	Heaters	2 sets for each type and rating of motor	
(iii)	Bearings (DE and NDE) for each type and rating of motor		
(iv)	Cooling Fan for all type and rating of LT motors	One (1) set	
(v)	Dust seals and gaskets for each type of motors	1 Set	
(vi)	Motor Terminal Block	1 no. for each type and rating of Motor	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 8T EOT CRANE FOR DG BUILDING (INDOOR) Price (E x Works)
(vii)	Complete Set of Coupling	1 set for each type and rating	
NOTES:			
1	Bidder to refer Notes in Annexure-II of Technical Specification.		
2	*Refer Volume IIA, Reference clause of the "Customer Specification".		
Particulars of bidder / authorised representative			
Name	Designation	Signature & company seal	

		Doc No:	PE-PF-445-524-A001
SUGGESTIVE PRICE FORMAT MANDATORY SPARES: ANNEXURE-VI		Rev No:	0
		Date of issue	4/40/0000
		CACARDICHI THERMAL DOWER PROJECT 4	4/13/2022
NAME OF PROJECT: NAME OF PACKAGE:		SAGARDIGHI THERMAL POWER PROJECT, 1: SINGLE GIRDER CRANES	X 660 MW UNIT NO 5, STAGE III.
TECHNICAL SPECIFICATION:		PE-TS-445-524-A001	T
	er shall include in their offer, on basis of technical sp		le for their design
SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 3T EOT CRANE FOR MRS Compressor House (INDOOR) Price (Ex Works).
6.01.00	EOT Cranes		
6.01.01	Long Travel Unit		
(i)	Set of Bearings of Wheels	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Long Travel end Shaft Bearings	1Set for each type & capacity of EOT	
(iv)	Seals for Travel Gear Box	1Set for each type & capacity of EOT	
(v)	Long Travel Brake Shoes Liners	2Sets for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix)	Motor	1 No. for each type & capacity of EOT	
6.01.02	Cross Travel Unit	,, , ,	
(i)	Axle Bearings	1Set for each type & capacity of EOT	
(ii)	Set of Gearbox Bearings with Sleeves	1Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1Set for each type & capacity of EOT	
(iv)	Cross Travel end Shaft Bearing	1Set for each type & capacity of EOT	
(v)	Cross travel Brake Shoes Liners	2Sets for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if	1 No. for each type & capacity of EOT	
	applicable)		
(vii)	Brake Spring	1Set for each type & capacity of EOT	
(viii)	Brake Coil	2Sets for each type & capacity of EOT	
(ix) 6.01.03	Motor Hoist	1 No. for each type & capacity of EOT	
(i)	Main Hoist Pulley Bearings [All Bearings of Each Type and size used in all Gear Assemblies, Lifting Hook, Trolley wheels etc.]		
(ii)	Set of Bearings for Gear box	1 Set for each type & capacity of EOT	
(iii)	Set of seals for Gearbox	1 Set for each type & capacity of EOT	
(iv)	Aux. Hoist Gearbox Bearings	1 Set for each type & capacity of EOT	
(v)	Aux. Hoist Gearbox Seals	1 Set for each type & capacity of EOT	
(vi)	Complete Set of Hydraulic Thruster for Brakes (if applicable)	1 No. for each type & capacity of EOT	
(vii)	Main & Aux. Hoist Brake Shoes [Brake shoes with lining for each size of brake (Pair of each size)]	2 Sets for each type & capacity of EOT	
(viii)	Main & Aux. Hoist Brake Springs	2 Sets for each type & capacity of EOT	
(ix)	Main & Aux. Hoist Brake shoe liners	2 Sets for each type & capacity of EOT	
(x)	Motor for Main Hoist & Auxiliary Hoist	1 No. for each type & capacity of EOT	
(xi)	Brake Coil	2 Sets for each type & capacity of EOT	
(xii)	Wire Rope for Aux. Hook	100% of one crane for each type & capacity of EOT	
6.01.04	Electrical	 -	
(i)	Other Electrical Spares as applicable as per the Electrical List	Applicable Item & Quantity same as indicated in Electrical list 'B' Sl. no.7.08.00, 7.21.00	
(ii)	Limit Switches for:		
(a)	Main Hoist	1 Set for each type & capacity of EOT	
(b)	Aux. Hoist	1 Set for each type & capacity of EOT	
(c)	Cross Travel	1 Set for each type & capacity of EOT	
(d)	Long Travel	1 Set for each type & capacity of EOT	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 3T EOT CRANE FOR MRS Compressor House (INDOOR) Price (Ex-Works)
(iii)	Master Controller for :		
(a)	Aux. Hoist	1 No. for each type & capacity of EOT	
(b)	Cross Travel	1 No. for each type & capacity of EOT	
(c)	Long Travel	1 No. for each type & capacity of EOT	
(iv)	VVVF Drive Complete Set for:		
(a)	Main Hoist	1 No. for each type & capacity of EOT	
(b)	Aux. Hoist	1 No. for each type & capacity of EOT	
(c)	Cross Travel	1 No. for each type & capacity of EOT	
(d)	Long Travel	1 No. for each type & capacity of EOT	
7.00.00	Electrical Items		
7.08.00	415V System		
7.08.01	11/0.415KV Transformer (for Each make,type and rating of Transformer)		
(i)	Door Limit Switch complete set	1 set (1 set means total requirement for one Transformer)	
(ii)	Neutral CT	1 no of each type and rating	
(iii)	Temperature scanner	1 no.	
(iv)	bhy	3 No	
(v)	LV Bushing with metal parts, connectors and gaskets	3 No	
(vi)	LV neutral Bushing with metal parts, connectors and gaskets	1 No	
(vii)	Post Insulator	1 set (1 set means total requirement for one Transformer)	
` ′	Limb of complete LT & HT of temperature sensing devices	1 Set (1 set means total requirement for one Transformer)	
7.08.02	415V Air Circuit Breaker (for Each make, type and rating of ACB)		
(i)	Trip Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
	Closing Coil	20% of total nos. or minimum 5 nos whichever is higher for each type and rating used in each switchgear (PCC/PMCC/MCC/ACDB)	
	Spring Charging Motor	2 nos.	
, ,	Spring Charging Motor with complete Mechanism	2 nos.	
(v)		5 nos.	
	Thermal Overload for Spring Charging Motor	2 nos.	
(vii)	Main Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
	Arcing Contact (Fixed and moving) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(ix)	Breaker Jaw Contact (Bus-end & Breaker- end) assembly	5 sets (1 set consists of 3 nos.) for each type and rating	
(x)	Sliding Contact (Fixed & Moving)	3 sets.	
	Breaker Auxiliary Contact Block Arcing Chute	5 nos. 2 sets (1 set consists of 3 nos.) for each type and	
7:::>	Diving Spokest with Drofels askila	rating	
	Plug Socket with Prefab cable	3 nos	
(XIV)	Position Limit Switch 415V PCC, PMCC, MCC, ACDB, DCDB, Elect. Control	5 sets	
	Panel (For each PCC, PMCC, MCC, ACDB, DCDB and		
7.08.03	Elect. Control Panel) (applicable items of PCC, PMCC,		
	MCC, ACDB, DCDB and Elect. Control Panel shall be		
	considered)		
(i)	Indicating Lamps complete assembly		
(a)	Red	3 nos of each make and type.	
(b)	Blue	3 nos of each make and type.	
(c)	Green	3 nos of each make and type.	
(d)	White	3 nos of each make and type.	
(e)	Amber	3 nos of each make and type.	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 3T EOT CRANE FOR MRS Compressor House (INDOOR) Price (Ex-Works)
(ii)	CT	2 nos. for each make, type and Rating	
(iii)	Transducer	2 no for each make, type and Rating	
(iv)	Trip / Neutral / close Control Switch	2 nos. for each make, type and Rating	
(v)	Switch gear or MCC / Trial / Normal selector	2 nos. for each make, type and Rating	
(*)	switch	2 nos. for each make, type and realing	
(vi)	Local/Remote selector switch	2 nos. for each make, type and Rating	
(vii)	AC Supply On / Off Switch	1 no. for each make, type and Rating	
(viii)	DC Supply On / Off Switch	1 no. for each make, type and Rating	
(ix)	Motor Heater On /Off Switch	1 no. for each make, type and Rating	
(x)	DC Supply Source Selector Switch (3-position)	1 no. for each make, type and Rating	
(vd)	Americator Calacter Cuitela	1 no fee cook make hims and Dating	
(xi)	Ammeter Selector Switch	1 no. for each make, type and Rating	
(xii)	Voltmeter Selector Switch	1 no. for each make, type and Rating	
(xiii)	Voltmeter	2 no. for each make, type and Rating	
(xiv)	Ammeter	2 no. for each make, type and Rating	
(xv)	Auxiliary Control Contactor	100/ of total non-fra-state in 15 "	
(a)	Auxiliary Control Contactor complete assembly	10% of total nos for each make, type and Rating.	
(b)	Auxiliary Control Contactor spare kits	10% of total nos. for each make, type and Rating.	
(c)	Auxiliary Control Contactor Coils	10% of total nos for each make, type and Rating.	
(xvi)	Power Contactor		
(a)	Power Contactor Complete Assembly	10% of total nos for each make, type and rating	
(b)	Power Contactor spare kits	10% of total nos for each make, type and Rating.	
(c)	Power Contactor Coils	10% of total nos for each make, type and Rating.	
(xvii)	MCCB	5% of total nos. for each make, type and rating.	
(xviii)	MCB	5% of total nos. for each make, type and rating.	
(xix)	Switch Fuse Unit (DC)	10% of total nos. for each make, type and rating.	
(xx)	Power Fuse	5% of total nos. for each make, type and rating.	
(xxi)	Control Fuse	5% of total nos. for each make, type and rating.	
(xxii)	Thermal Overload Relay	5% of total nos. for each make, type and rating.	
(xxii)	Sliding contact (Fixed and moving) Complete assembly	2 sets of each make, type and rating	
(xxiii)	Busbar to module Lira Contact assembly	2 sets of each make, type and rating (1 set means all 3 ph+ neutral)	
(xxiv)	Control and Aux. Transformer	1 no of each make, type and rating	
(xxv)	Delay Timer	2 no of each make, type and rating	
(xxvi)	Power Terminal Block	2 sets for each make, type and rating	
(xxvii)	Control Terminal Block	2 sets for each make, type and rating	
(xxviii)	End plate for Power and Control terminal block	2 sets for each make, type and rating	
(xxix)	Energy meter	1 no for each make, type and rating	
(xxx)	Relays (Other than numerical relay):		
(a)	Conventional (Electromagnetic/Static type) Relay	2 no for each make, type and rating	
(b)	Aux. relays & Lock out relays & TIMERS	2 nos for each make, type and rating	
(xxxi)	MCCB Status (On/off) Monitoring Switch/Contact	2 nos for each make, type and rating	
(xxxii)	Push Button (On/Off) Complete Assembly	2 nos for each make, type and rating	
(xxxiii)	Annunciation Facia with lamps complete	1 set for each make, type and rating	
7.21.00	Motor		
7.21.02	415 Volt Motor		
(i)	End Shield Cover Driving & Non-Driving End	1 set for each type and rating of Motor	
(ii)	Heaters	2 sets for each type and rating of motor	
/:::\	Bearings (DE and NDE) for each type and rating of	2 sets	
(iii)	motor	2 3013	

SI No.*	Description of the Equipment/Package Name	Quantity to be supplied for the Package	TOTAL EX - WORKS PRICE FOR 3T EOT CRANE FOR MRS Compressor House (INDOOR) Price (Ex-Works)
(iv)	Cooling Fan for all type and rating of LT motors	One (1) set	
(v)	Dust seals and gaskets for each type of motors	1 Set	
(vi)	Motor Terminal Block	1 no. for each type and rating of Motor	
(vii)	Complete Set of Coupling	1 set for each type and rating	
NOTES:			
1	Bidder to refer Notes in Annexure-II of Technical Specific	ation.	
2	*Refer Volume IIA, Reference clause of the "Customer Specification".		
Particulars of bidder / authorised representative			
Name	Designation	Signature & company seal	