

**CORRIGENDUM NO. - I**

Sub: Design, Manufacturing, Class Approval, Supply, Installation, Testing and Commissioning of 08 New LL Cranes at MDL.

Ref: Tender no. 1900000171 dated 08 Dec '23.

1. The following points shall be considered by the bidder(s) before submission of final offer for the subject tender.

Technical:

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1	23.3	20	Manuals of PLC, HMI, VVFDs, encoders etc. shall be given along with relevant instructions or programs. Detailed interconnection diagrams shall be provided. Manuals of each unit shall be provided. MDL shall receive licence to use system software, application Drawing "as fitted and commissioned" shall be provided and is a compulsory requirement as per this tender. Fault diagnosis procedures shall be provided.	Manuals of PLC, HMI, VVFDs, encoders etc. shall be given along with relevant instructions or programs. Detailed interconnection diagrams shall be provided. Manuals of each unit shall be provided. Necessary permissions/licenses shall be given to MDL for using Application software in HMI and Crane management System. Drawing "as fitted and commissioned" shall be provided and is a compulsory requirement as per this tender. Fault diagnosis procedures shall be provided.
2	19.1 (l)5	17	PLC backup and ladder diagrams in electronic form.	PLC software documentation in electronic form.
3	19.2 (d)	17	PLC logic diagrams	PLC software documentation
4	32.6	24	Testing will be witness by an independent TPIA.	Testing will be witnessed by an independent TPIA. As per agreed QAP/ Inspection plan, all Inspections by TPIA will be carried out at the place of fabrication and final erection, testing and commissioning will be at MDL site.
5	37.3	26	The gearboxes shall be of oil-tight welded or cast steel construction	The gearboxes shall be of oil-tight welded or cast steel construction and provided with suitable lifting lugs to both halves. Main



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			and provided with suitable lifting lugs to both halves. Enclosures shall be split horizontally and so arranged that the top half can be easily removed for inspection and repairs without disturbing the bottom half. Small gearboxes can be taken to shop for repair easily and traversing is designed to work with one machinery out.	hoisting, Auxiliary Hoisting, Slewing & Luffing gearboxes must be horizontally split type. Other small gearboxes can be vertical split type, which can be taken to shop for repair.
6	41.1	27	The minimum pitch diameter of the sheaves and the groove radius and form shall be in accordance with the requirements of the crane design standard being employed. All sheaves within a particular hoist system shall be standardised with material of cast steel and fully interchangeable one with another. All individual sheaves shall be statically balanced. Bearing diameters for the sheaves shall be equal to or greater than specified within the design standard employed.	The minimum pitch diameter of the sheaves and the groove radius and form shall be in accordance with the requirements of the crane design standard being employed. All sheaves within a particular hoist system shall be standardised with material of cast steel or welded type and fully interchangeable one with another. All individual sheaves shall be statically balanced. Bearing diameters for the sheaves shall be equal to or greater than specified within the design standard employed, provided the documentation to be provided vetted by TPIA.
7	44.12	30	Compressible buffers of the Oleo type are to be provided at each corner of the crane compatible with the track end stops. Brushes shall be fitted	Compressible hydraulic buffers are to be provided at each corner of the crane compatible with the track end stops. Brushes shall be fitted to the leading edges of each outer bogie to clear the rails of minor debris.



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			to the leading edges of each outer bogie to clear the rails of minor debris.	
8	54.2	36	All components of the PLC's shall be suitable for extended industrial use within the particular operating and climatic environment applicable to the crane. The memory capacity shall be sufficient to contain control algorithms for more than one function and space shall be available to extend the memory to support future developments. The PLC I/O ports shall be capable of being individually programmed to be either input or output and provision shall be provided to provide additional I/O ports if required in the future.	All components of the PLC's shall be suitable for extended industrial use within the particular operating and climatic environment applicable to the crane. The memory capacity shall be sufficient to contain control algorithms for more than one function and space shall be available to extend the memory to support future developments. The PLC I/O ports shall be capable of being individually programmed and provision shall be made for additional I/O ports if required in the future.
9	55.8	37	All the power and control terminations for external connections shall be terminated on the bottom portion of the control panel with suitable rated elmex terminals. There shall be 20 % spare terminals for future use.	All the power and control terminations for external connections shall be terminated on the bottom portion of the control panel with suitable rated terminal blocks. There shall be spare terminals for future use.
10	62.4	39	All lights and lamps shall be readily and safely accessible for repairs/replacement. The floodlights shall	All lights and lamps shall be readily and safely accessible for repairs/replacement. The floodlights shall be positioned to allow such replacement be undertaken safely, without the use of



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			be positioned to allow such replacement be undertaken during normal crane operations safely, without the use of temporary platforms or scaffolding.	temporary platforms or scaffolding.
11	64.1	40	Spring loaded end stopper shall be provided at both side of Crane bogie ends (Seaside and Shop side)	Hydraulic buffer end stopper shall be provided at both side of Crane bogie ends (Seaside and Shop side)
12	51.5 & 51.6	35	51.5 All motors shall be equipped with anti-condensation heaters and be provided with over temperature protection by means of embedded thermistors. 51.6 Type of motors – AC squirrel cage induction motor suitable for speed control of variable frequency drive.	51.5 All main motors shall be equipped with anti-condensation heaters and be provided with over temperature protection by means of embedded thermistors. 51.6 Type of Main Motors – AC squirrel cage induction motor suitable for speed control of variable frequency drive.
13	55.2	36	Control gear for the main crane motions shall include “hours run” meters, circuit testing capabilities and fault indication equipment. Any such faults arising shall be relayed to a conveniently located central fault indication panel able to identify the motion in which the fault has occurred. Fault SIGNAL/messages shall also be provided in the OPERATORS cab.	Crane management system provided will act as "Central fault indication system" to identify the motion in which the fault has occurred. These fault details shall also be available in operator cabin HMI.
14	55.3	36	The electrical panels	All major electrical, converters and



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			and inverters shall be mounted in cabinets.	inverters shall be integrated in common enclosures or cabinets for ease of troubleshooting and maintenance. These panels will be located in air conditioned Electrical room.
15	70.1	45	The main hoist, auxiliary hoist, and luffing machinery shall all be housed in a single weatherproof steel framed and steel clad machinery house mounted on the slewing superstructure. Converter/inverter cabinets together with the main electrical control panels shall be in air conditioned electrical room.	The main hoist, auxiliary hoist, luffing and slewing drive system shall be housed in air conditioned electrical room.
16	72.3	47	Luff radius indicator (HMI) shall be provided and shall be of digital display type with fitted in suitable place for easy maintenance. This shall be interconnected with loading of the crane for main hoist and auxiliary hook. Suitable warning and shutdown facility shall be provided to prevent overloading and exceeding limit of radius of the crane. Luff indicating system shall be reliable and rugged construction.	Luff radius indicator shall be provided as part of operator HMI. This shall be interconnected with loading of the crane for main hoist and auxiliary hook. Suitable warning and shutdown facility shall be provided to prevent overloading and exceeding limit of radius of the crane. Luff indicating system shall be reliable and rugged construction.
17	31.3	23	The structural members of the crane shall be of rolled steel plates and sections and shall be constructed using	The structural members of the crane shall be of rolled steel plates and sections and shall be constructed using electric welding. Counterbalance weight can be made from steel box filled with concrete and steel scrap.



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			electric welding. Counterbalance weights shall be cast iron or cast steel.	
18	45.2	30	The jib must be capable of being lowered to the ground for rope changing and maintenance.	Jib crane will be lowered to parking position for rope changing / maintenance.
19	49.8	33	10% of spare controls cables shall be provided, properly marked and terminated at spare connector or terminal blocks throughout the crane	10% spare cores shall be provided in control wiring, properly marked and terminated at spare connector or terminal blocks throughout the crane
20	55.9	37	The gland plate shall be of 3.15 mm thick M.S, powder coated plate	The gland plate shall be of 3.0 mm thick M.S, powder coated plate.
21	71.3	46	Electrically operated variable speed wipers shall be provided together with screen washers to all main windows.	Electrically operated fixed speed wipers shall be provided together with screen washers to all main windows.
22	88	55	Profibus connector, Profibus cable, Profibus Slipping	Profibus connector, Profibus cable, Profibus Slipping or similar system shall be provided to meet the functional requirements.
23	SOW clause no 27.1	21	Power Supply Power will be provided to the cable anchor pit for connection to the crane trailing cable as below: Supply: - 3 Phase	Power Supply Power will be provided to the cable anchor pit for connection to the crane trailing cable as below: Supply: - 3 Phase + EARTH
24	SOW clause no 87	54	PREFERRED MAKE FOR MAJOR COMPONENTS	
	S. no. 3	54	VVVF DRIVES & PLC - ALLEN BRADLEY/ SIEMENS/ FUJI / YASKAWA /ABB/KONE CRANES	VVVF DRIVES & PLC - ALLEN BRADLEY/ SIEMENS/ FUJI / YASKAWA /ABB/KONE CRANES/ Schneider
	S. no. 5	54	HMI - SIEMENS/HONEYWELL/	HMI - SIEMENS/HONEYWELL/ ABB/FUJI/TOSHIBA/ ALLENBRADLEY/Pro-face/ Schneider



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			ABB/FUJI/TOSHIBA/ ALLENBRADLEY/Pro- face/ chneider /Omron / Delta / GeFanuc /EATON / Mitsubishi/ Hitachi	/Omron / Delta / GeFanuc /EATON / Mitsubishi/ Hitachi
	S. no. 7	54	Gear Boxes - SIEMENS/ SEW/HYOSUNG/SEIS HA/ KONECRANES / Brevini / Bonfiglioli / Zollern or OEM of crane.	Gear Boxes - SIEMENS/ SEW/HYOSUNG/SEISHA/ KONECRANES / Brevini / Bonfiglioli / Zollern or OEM of crane / Shanti , Elecon , NAW, Rossi make Gear Boxes
25	SOW clause no 15.1.e	12	The provision for the turnover pit shall be in suppliers' scope. The specifications and size of supply cable, cable reeling drum to be given by crane supplier to suit the size of pit. Isolation Switch / Connection box should have locking arrangement	The design of the anchoring pit will be provided by vendor and the digging of pit with concreting will be done by MDL.
26	34		COATING SYSTEM	
	34.1	25	The paint coating system shall be mostly applied within the manufacturer's works in a controlled environment with only damage repair, construction joint painting being permitted on site prior to the application of the top coat. Each paint coat shall be of a different colour to the preceding one to help ensure proper coverage is achieved. All coatings are to be applied in conformance with the	The paint coating system shall be mostly applied within the manufacturer's works in a controlled environment with only damage repair, construction joint painting being permitted on site prior to the application of the top coat. Each paint coat shall be of a different colour to the preceding one to help ensure proper coverage is achieved. All coatings are to be applied in conformance with the paint manufacturer's published requirements. Such requirements are considered to form an integral part of this specification.



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			paint manufacturer's published requirements. Such requirements are considered to form an integral part of this specification.	
	34.2	25	All steel work, both structural and non-structural, shall be blast cleaned to Swedish standard SIS 05900 grade Sa 2.5 and immediately painted with a zinc based primer. Wherever possible paint shall be applied by airless spray. Where this process is impracticable roller or brush application may be employed although the number of applied coats may need to be adjusted to achieve the desired DFT at each nominal coat stage.	Structural steel of thickness greater than 6mm shall be blast cleaned to Swedish standard SIS 055900-1967, grade Sa 2.5 and immediately painted with a zinc silicate based primer of 15-25 microns DFT. Wherever possible paint shall be applied by airless spray. Where this process is impracticable roller or brush application may be employed although the number of applied coats may need to be adjusted to achieve the desired DFT at each nominal coat stage.
	34.3	25	The paint system of steel structures shall comply with ISO 12944 C5 durability high for external structures exposed to weather. The external finish top coat shall be gloss golden yellow epoxy or polyurethane top coat paints to be used.	<p>The paint system of steel structures shall comply with ISO 12944 C5 durability high for external structures exposed to weather. The external finish top coat shall be Daffodil Yellow (RAL No. 1007) polyurethane based top coat paints to be used.</p> <p>A four-coat system shall be employed for all external steel work providing a minimum dry film thickness (DFT) of 300 microns.</p> <p>A two or three coat system providing a minimum DFT of 200 microns shall be employed for all internal steel work protected from the weather. The interior of the machinery house and other areas man accessed shall be Oyster white (RAL No.1013)</p>



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	34.4	25	The paint system of steel structures shall comply with ISO 12944 C3 durability medium for internal steel work protected from the weather. The external finish top coat shall be gloss golden yellow epoxy or polyurethane top coat paints. The interior of the machinery house and other areas man accessed shall be gloss white.	The paint system of steel structures shall comply with ISO 12944 C5 durability medium for internal steel work protected from the weather. The external finish top coat shall be polyurethane based top coat paints. The interior of the machinery house and other areas man accessed shall be gloss white.
	34.5	25	The supplier shall provide suitable colour swatches to enable the precise paint colours to be identified in advance.	Deleted.
	34.6	25	The overall systems shall be designed to provide 05 year coating life with minimum degradation of the top coat colour over this period.	The overall systems shall be designed to provide 05 year coating life with minimum degradation of the top coat colour over this period.
	34.7	25	Coated surfaces will only be inspected when the paint is fully dry. Inspection criteria will include achieved DFT, consistency of application and the physical appearance of the paint coat. The MDL executive may reject unsatisfactory paint work, which shall then be rectified to the MDL executive's satisfaction. The paint coat shall be inspected and certified by TPIA.	Coated surfaces will only be inspected when the paint is fully dry. Inspection criteria will include achieved DFT, consistency of application and the physical appearance of the paint coat. The painting system shall be inspected, approved and certified by TPIA.
	34.8	25	Any repairs necessary to the coating system	Any repairs necessary to the coating system should be undertaken at the earliest



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			should be undertaken at the earliest possible opportunity to reinstate the relevant stage and DFT. The coating system in way of the bare steel construction joints shall stepped back, coat by coat, to allow the overall coating system integrity to be achieved on site. The same acceptance criteria as used for the workshops will apply.	possible opportunity to reinstate the relevant stage and DFT. The coating system in way of the bare steel construction joints shall stepped back, coat by coat, to allow the overall coating system integrity to be achieved on site as used for the workshops.
	34.9	25	The supplier shall provide approximate paintable crane surface area in square meter after commissioning of the crane.	The supplier shall provide approximate paintable crane surface area in square meter after commissioning of the crane. Note: Preferred Paint makes are already given at Para 87. Preferred Paint makes are JOTUN/HEMPEL/SIGMA/AKZO NOBLE only
27	88	55	CRITICAL SPARES TO BE SUPPLIED ALONG WITH THE CRANES – 25/5T for 04 cranes 15/5T 60/5T 40/5T 20/7.5T	CRITICAL SPARES TO BE SUPPLIED ALONG WITH THE CRANES – 25/5T for 04 cranes 15/5T 60/5T 50/10T 20/7.5T
28	88	56	Mechanical Spares- 03) Wire ropes of Main Hoist – Quantity Blank 04) Wire ropes of Aux Hoist - Quantity Blank	Mechanical Spares- 03) Wire ropes of Main Hoist – Quantity As per Bidder's Design requirement 04) Wire ropes of Aux Hoist - Quantity As per Bidder's Design requirement
29	15.e	12	The provision for the turnover pit shall be in suppliers' scope. The specifications and size of supply cable, cable reeling drum to be given by crane supplier to suit the size of pit. Isolation Switch / Connection box should have	The specifications and size of supply cable, cable reeling drum to be given by crane supplier to suit the size of pit. Isolation Switch / Connection box should have locking arrangement. Only Civil work is in MDL scope, rest all in the bidder's scope.



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			locking arrangement.	
30	31.4	23	All enclosed volumes within the structure that are not 100% sealed shall be fitted with weatherproof covers or similar to facilitate inspection. Fully enclosed volumes shall be treated with a wax type corrosion inhibitor immediately prior to final closure.	All enclosed volumes within the structure that are not 100% sealed shall be fitted with weatherproof covers or similar to facilitate inspection. Corrosion resistant primer coat will be applied before the closing plate welding.
31	44.5	29	All brakes shall be installed within weather proof covers. Drive units shall be provided with a space heater and a humidistat to ensure proper operation after long periods of idleness in a location of very high humidity as defined in Clause 2.	All brakes shall be installed within weather proof covers. Long travel drive space heaters shall be controlled by PLC system by monitoring the idleness of the drives to ensure proper operation after long periods of idleness in a location of very high humidity as defined in Clause 2.
32	30.2	23	The cranes shall also be equipped with some form of mechanical locking device(s), by stowage pins for example, locating into special reinforced anchor location or similar to secure against movement during storm conditions. The device(s) shall be fitted to the crane portal structure on each side of the crane, not to the long travel bogies. Ideally the pins and anchor locations shall provide	The cranes shall also be equipped with some form of mechanical locking device(s), by stowage pins for example, locating into special reinforced anchor location or similar to secure against movement during storm conditions. The device(s) shall be fitted to the crane portal structure on each side of the crane, not to the long travel bogies. Ideally the pins and anchor locations shall provide the resistance to overturning rather than having to resort to separate tie down provisions where the design rules adopted allow for the existence of net overturning moments. Electric interlocks shall be provided such that the travelling machinery cannot be energized until the storm anchors have been released. Bidder shall provide mechanical locking device and anchor box. Civil work and



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			the resistance to overturning rather than having to resort to separate tie down provisions where the design rules adopted allow for the existence of net overturning moments. Electric interlocks shall be provided such that the travelling machinery cannot be energized until the storm anchors have been released.	fixing of anchor box and mechanical locking device will be in MDL scope.
33	50.5	34	Termination boxes and associated cable glands on the cable reeling system shall be watertight, complying with protection code IP 65 as a minimum. Power take off from the cable to the crane shall be through a totally enclosed slipring collector. The enclosure shall be provided with an anti-condensation heater and weatherproofed to protection code IP 65. A dedicated separate earthing slipring shall be provided for the cable reel itself. Appropriate sliprings for the communications together with, as number of spare rings for future needs shall also be provided. Each ring shall have minimum two copper graphite spring loaded brush and all the rocker arms shall be	Deleted.



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			mounted on the common assembly to avoid misalignment. Adequate precaution is to be taken for insulation and high moisture content in the atmosphere.	
Tender Enquiry Form (TEF)				
34	TEF Cl. 20	20	Delivery Period: The Completion period for entire work shall be 28 (Twenty Eight) MONTHS from the date of Placement of Purchase Order excluding mobilization period of 42 days.	The Completion period for entire work shall be 32 (Thirty Two) MONTHS from the date of Placement of Purchase Order excluding mobilization period of 42 days.

Commercial:

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1	14.7 of Enclosure 32 - Part 2 - Particular Conditions of Contract	06	The Employer shall pay to the Contractor within 45 days from the date of receipt of invoice, duly certified by the Engineer, on completion of the milestones indicated in clause 14.4 above.	The Employer shall pay to the Contractor within 15-20 days from the date of receipt of invoice, duly certified by the Engineer, on completion of the milestones indicated in clause 14.4 above.
2	TEF Cl. 47.2.1 and Cl. 21 of Encl. 32 - Part 2 - Particular Conditions of Contract	39	Arbitration clause applicable to CPSUs: In the event of any dispute or difference between the parties hereto, such disputes or differences shall be resolved amicably by mutual consultation or through the good offices or empowered agencies of the Government. If such resolution is not possible, then the unresolved dispute or difference shall be referred to arbitration by Permanent Machinery of Arbitrators in the Bureau of	Arbitration clause applicable to CPSUs: In case of unresolved difference/dispute between the Purchaser and Supplier, being Central Public Sector Enterprises/Central Govt. departments, the disputes shall be resolved firstly through mutual discussion or through the empowered agencies of the Govt. or through arbitration by reference by either party to the department of Public Enterprises, as per extant guidelines. If disputes/differences remain



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			Public Enterprises in terms of Office Memorandum No.15/9/86-BPE(FIN) dated 30.03.1989 issued by the Ministry of Industry, Bureau of Public Enterprises and as modified from time to time. The Arbitration and conciliation Act 1996 shall not be applicable to arbitration under this clause. The Arbitrators' fee and cost incurred in arbitration shall be borne equally by both the parties.	unresolved/unexecuted, the same shall be referred first to the Cabinet Secretariat and then, if necessary to the PMO."
3	TEF Cl. 47.3.1	40	Arbitration clause applicable to non-CPSUs: If any dispute, difference or question shall, any time hereafter, arise between the parties hereto in respect of the construction of these presents or concerning anything herein contained or arising out of these presents or as to the rights, liabilities or duties of the said parties hereunder which cannot be mutually resolved by the parties, the same shall be referred to the sole Arbitrator appointed by the CMD, MDL. The Sole Arbitrator shall on matters referred to him / her indicate the reasons for his finding on each and every item of disputes. The venue of the Arbitration shall be Mumbai. Subject to above, The Arbitration will be governed by the provisions of Conciliation and Arbitration Act, 1996, as amended from time to time.	Arbitration clause applicable to non-CPSUs: Unresolved disputes/differences, if any, shall then be settled by arbitration. The Arbitration proceedings shall be conducted at Mumbai, India, in English Language, under the Arbitration & Conciliation Act, 1996. MDL prefers to have arbitration through Institutes such as Indian Council of Arbitration (ICA)/ICA-DR, with the mutual consent of the parties.
4	TEF Cl. 49	40	TERMINATION: 49.1. If MDL considers that the services rendered by the firm directly or through their associates are unsatisfactory, MDL reserves the right to terminate the agreement with	TEF Clause 49 deleted. Refer Encl. 32 - FIDIC - General Conditions of Contract and Particular Conditions of Contract.



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			<p>firm in writing at any stage by giving them 30 days' notice. In case MDL decides to part with the services of the firm, the firm fees quoted by them will be restricted to the proportionate work rendered by them up to that stage.</p> <p>49.2. TERMINATION OF CONTRACT FOR INSOLVENCY - If the supplier becomes bankrupt or becomes otherwise insolvent or undergoes liquidation or loses substantially the technical or financial capability (based on which he was selected for award of contract), at any time, the contract may be terminated, by giving a written notice to the supplier, without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to MDL.</p>	
5	Cl. 22.7 of Encl. 32 – Part 2 - Particular Conditions of Contract	16	<p>PREFERENCETIAL PURCHASE FROM MSE-MANUFACTURERS & START-UPS:</p> <p>i) MDL has right to place order on MSE-Manufacturers meeting following criteria: In tenders, if participating MSEs quoted prices are within price band of L1+15%, such MSEs shall also be allowed to supply a portion up to 20% of requirement by bringing down their prices to L1 price where L1 is non MSEs. If more than 1 MSEs fall under such criteria then this 20% shall be distributed proportionally. This preference shall not be applicable where MSE firm is L1 firm. % out of 20 percent target of annual procurement from Micro and</p>	Deleted.



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			<p>Small Enterprises, a sub-target of 20 percent (i.e 4 percent out of 20 percent) shall be earmarked for procurement from Micro and Small Enterprises owned by the Scheduled Caste or the Scheduled Tribe Entrepreneurs. In respect of items reserved for MSE-Manufacturers, extant guidelines shall be followed. Presently Circular No. S.O. 581(E) dated 23.03.2012 is applicable. MSEs involved in trading activity are not eligible to avail benefits of PPP for MSEs.</p> <p>ii) MDL has right to place order on Start-ups meeting following criteria: 20% of the of the tendered quantity can be ordered on techno-commercially qualified Start-ups in case emerged L1 bidder is other than Start-up and Start-up firm agrees to match L1 prices. In case if Start-up firm emerges as L1, an initial order for 20% shall be released to monitor performance & subsequently upon successful execution order for balance 80% quantity shall be placed. Presently Circular No. 113 dated 18/02/2016/G.S.R180 (E) is applicable.</p>	
6	Cl. 4.2 of Encl. 32 – Part 2 - Particular Conditions of Contract	02	Within 21 days from the date of issue of Letter of Acceptance (LOA) or date of issue of Notice for Commencement of work, whichever is later , the Contractor shall submit “PERFORMANCE BANK GUARANTEE” as per MDL format at Enclosure-16 for 10% of contract value excluding taxes, duties,	Within 21 days from the date of issue of Letter of Acceptance (LOA) or date of issue of Notice for Commencement of work, whichever is later , the Contractor shall submit “PERFORMANCE BANK GUARANTEE” as per MDL format at Enclosure-16 for 10% of contract value excluding taxes, duties, freight & services component etc. valid till 30



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			<p>freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of One year from actual completion of entire work.</p> <p>Increase in the Contract Value during execution of work: -</p> <p>1. In case of Contract value increases more than 10% during execution of the work, within 21 days after issue of Amendment of Purchase order, the contractor shall submit the additional "PERFORMANCE BANK GUARANTEE" of 10% of additional contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of One year from actual completion of entire work.</p> <p>2. In case of Contract value increases upto 10% during execution of work, an equivalent amount of 10% of the additional contract value excluding taxes, duties, freight & services component etc. shall be retained from the Running Account bills/ Final bills which will be refunded without interest, to the Contractor on completion of 30 days beyond stipulated Defect Liability Period of One year from actual completion of entire work. However, this retained amount can be released to the contractor without interest, on submission of Additional Performance Bank Guarantee of requisite amount valid till 30 days beyond the stipulated Defect Liability Period of One year from actual completion of entire work.</p> <p>3. The Bank Guarantee shall</p>	<p>days beyond the stipulated Defect Liability Period of Three years from actual completion of entire work.</p> <p>Increase in the Contract Value during execution of work: -</p> <p>1. In case of Contract value increases more than 10% during execution of the work, within 21 days after issue of Amendment of Purchase order, the contractor shall submit the additional "PERFORMANCE BANK GUARANTEE" of 10% of additional contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of Three years from actual completion of entire work.</p> <p>2. In case of Contract value increases upto 10% during execution of work, an equivalent amount of 10% of the additional contract value excluding taxes, duties, freight & services component etc. shall be retained from the Running Account bills/ Final bills which will be refunded without interest, to the Contractor on completion of 30 days beyond stipulated Defect Liability Period of Three years from actual completion of entire work. However, this retained amount can be released to the contractor without interest, on submission of Additional Performance Bank Guarantee of requisite amount valid till 30 days beyond the stipulated Defect Liability Period of Three years from actual completion of entire work.</p> <p>3. The Bank Guarantee shall be only from banks as per list approved by SBI / Canara</p>



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			<p>be only from banks as per list approved by SBI / Canara Bank published on MDL website. Bank Guarantee from banks not mentioned in the aforesaid approved list shall NOT be accepted.</p> <p>4. In case of non-submission of PBG within 21 days of Placement of Purchase Order, there is likelihood of cancellation of the order.</p> <p>5. In case of delays in submission of the Performance Bank Guarantee, MDL reserves the right to charge Interest @ SBAR+2% from the firm for such period of delays.</p> <p>6. The Performance Bank Guarantee will be returned only after expiry of the 30 Days beyond the stipulated Defect Liability Period of One years from actual completion of entire work, provided there are no pending defects for rectification, already notified to the contractor. However, in cases where rectification of defects notified are not likely to be completed by the Contractor before expiry of the DLP, the Contractor will have to extend the Performance Bank Guarantee suitably or as requested by MDL.</p> <p>7. In case of non-submission of PBG within 21 days of Placement of Purchase Order, MDL reserves right to retain the equivalent amount of PBG from 1st RA bill upto the period till completion of contractual & Guarantee / Warranty obligations.</p>	<p>Bank published on MDL website. Bank Guarantee from banks not mentioned in the aforesaid approved list shall NOT be accepted.</p> <p>4. In case of non-submission of PBG within 21 days of Placement of Purchase Order, there is likelihood of cancellation of the order.</p> <p>5. In case of delays in submission of the Performance Bank Guarantee, MDL reserves the right to charge Interest @ SBAR+2% from the firm for such period of delays.</p> <p>6. The Performance Bank Guarantee will be returned only after expiry of the 30 Days beyond the stipulated Defect Liability Period of Three years from actual completion of entire work, provided there are no pending defects for rectification, already notified to the contractor. However, in cases where rectification of defects notified are not likely to be completed by the Contractor before expiry of the DLP, the Contractor will have to extend the Performance Bank Guarantee suitably or as requested by MDL.</p> <p>7. In case of non-submission of PBG within 21 days of Placement of Purchase Order, MDL reserves right to retain the equivalent amount of PBG from 1st RA bill upto the period till completion of contractual & Guarantee / Warranty obligations.</p>

2. Clarifications to bidder's queries during Pre Bid meeting are attached at Annexure A to this Corrigendum I.



3. All other terms & conditions remain unaltered.
4. **The Corrigendum-I as above along with the Annexure A, duly signed & stamped, shall be uploaded along with Techno-commercial Bid (PART-I) of the offer.**

Signature of Contractor

Seal

Date

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 1900000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
TECHNICAL QUERIES				
Enclosure 21 - Scope of Work				
1	23.3	Manuals of PLC, HMI, VVFDs, encoders etc. shall be given along with relevant instructions or programs. Detailed interconnection diagrams shall be provided. Manuals of each unit shall be provided. MDL shall receive licence to use system software, application Drawing "as fitted and commissioned" shall be provided and is a compulsory requirement as per this tender. Fault diagnosis procedures shall be provided.	It appears that red highlighted sentence is incomplete. We confirm that the necessary permissions/licenses shall be given to MDL for using Application software in HMI and Crane management System.	Manuals of PLC, HMI, VVFDs, encoders etc. shall be given along with relevant instructions or programs. Detailed interconnection diagrams shall be provided. Manuals of each unit shall be provided. Necessary permissions/licenses shall be given to MDL for using Application software in HMI and Crane management System. Drawing "as fitted and commissioned" shall be provided and is a compulsory requirement as per this tender. Fault diagnosis procedures shall be provided.
2	19.1 (l)5	PLC backup and ladder diagrams in electronic form.	PLC software documentation in electronic form.	PLC software documentation in electronic form.
3	19.2 (d)	PLC logic diagrams	PLC software documentation	PLC software documentation
4	32.6	Testing will be witness by an independent TPIA.		As per agreed QAP/ Inspection plan, all Inspections by TPIA will be carried out at the place of fabrication and final erection, testing and commissioning will be at MDL site.
5	37.3	The gearboxes shall be of oil-tight welded or cast steel construction and provided with suitable lifting lugs to both halves. Enclosures shall be split horizontally and so arranged that the top half can be easily removed for inspection and repairs without disturbing the bottom half. Small gearboxes can be taken to shop for repair easily and traversing is designed to work with one machinery out.	The gearboxes shall be of oil-tight welded or cast steel construction and provided with suitable lifting lugs to both halves. Enclosures shall be split horizontally for main hoisting & luffing gearboxes and so arranged that the top half can be easily removed for inspection and repairs without disturbing the bottom half. Small gearboxes can be taken to shop for repair easily and traversing is designed to work with one machinery out.	Main hoisting, Auxillary Hoisting, Slewing & Luffing gearboxes must be horizontally split type. Other small gearboxes can be vertical split type, which can be taken to shop for repair
6	39.5, 39.6	39.5 All drums shall be mounted in ball or roller bearings and fitted with fail-safe electro hydraulic or electro mechanical thrusters operating on a full wrap lined band brake. The brakes shall be able to securely hold the design maximum test overload load of the individual winches. Provision shall exist to safely control the progressive release of such brakes to effect the lowering of any load. 39.6 The external brake drums shall form an integral part of the rope drums.	39.5 All drums shall be mounted in ball or roller bearings and fitted with fail-safe electro hydraulic or electro mechanical thrusters operating on a full wrap lined band brake. The brakes shall be able to securely hold the design maximum test overload load of the individual winches. Provision shall exist to safely control the progressive release of such brakes to effect the lowering of any load. 39.6 The external brake drums shall form an integral part of the rope drums.	Tender conditions Prevail. Any repetition/ duplication to be ignored.

PRE-BID QUERIES

MDL Tender for 8 nos. ELL Cranes

Tender No. 1900000171 Dated 08 DECEMBER 2023

S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
7	41.1	The minimum pitch diameter of the sheaves and the groove radius and form shall be in accordance with the requirements of the crane design standard being employed. All sheaves within a particular hoist system shall be standardised with material of cast steel and fully interchangeable one with another. All individual sheaves shall be statically balanced. Bearing diameters for the sheaves shall be equal to or greater than specified within the design standard employed.	The minimum pitch diameter of the sheaves and the groove radius and form shall be in accordance with the requirements of the crane design standard being employed. All sheaves within a particular hoist system shall be standardised with material of cast steel or welded type and fully interchangeable one with another. All individual sheaves shall be statically balanced. Bearing diameters for the sheaves shall be equal to or greater than specified within the design standard employed.	The minimum pitch diameter of the sheaves and the groove radius and form shall be in accordance with the requirements of the crane design standard being employed. All sheaves within a particular hoist system shall be standardised with material of cast steel or welded type and fully interchangeable one with another. All individual sheaves shall be statically balanced. Bearing diameters for the sheaves shall be equal to or greater than specified within the design standard employed, provided the documentation to be provided vetted by TPIA
8	44.3	The drive units shall be provided with step less variable speed with variable voltage and variable frequency control over the full torque / speed range. Regenerative braking is to be provided for speed control under normal dynamic operation.		Tender conditions prevail
9	44.12	Compressible buffers of the Oleo type are to be provided at each corner of the crane compatible with the track end stops. Brushes shall be fitted to the leading edges of each outer bogie to clear the rails of minor debris.	Compressible hydraulic buffers are to be provided at each corner of the crane compatible with the track end stops. Brushes shall be fitted to the leading edges of each outer bogie to clear the rails of minor debris.	Compressible hydraulic buffers are to be provided at each corner of the crane compatible with the track end stops. Brushes shall be fitted to the leading edges of each outer bogie to clear the rails of minor debris.
10	47.9	Operation of the hoist motion shall be regulated by the following limits and interlocks: i) The upper and lower limits of the hoist motion shall have normal slow down and stop limit switches. The switches shall be wired into the control circuit. To safeguard against failure of the normal limits an over hoist limit shall be provided at a short distance beyond the normal stop limit and be wired into the main hoist contactor; ii) There shall be fitted a limit switch to stop the machinery if the rope has come out of the rope grooves on the rope drum; iii) There shall be fitted a limit switch to stop the machinery if, with the hook on the ground, there is less than 2 turns of rope remaining on the drum.		Tender conditions prevail
11	48.1	All electrical installation work shall comply with the current edition of the IEE (Institution of Electrical Engineers Regulations for Electrical Installations and / or other comparable Indian or international standard.		All electrical installation work shall comply with the current edition of the IEE (Institution of Electrical Engineers Regulations for Electrical Installations and / or other comparable Indian or international standard.
12	49.4	Small wiring in control cabinets and consoles shall be made up into replaceable harnesses.	Normal wiring in control cabinets and consoles shall be made up into replaceable harnesses.	Small wiring in control cabinets and consoles shall be made up into replaceable harnesses.
13	49.1	Every cable shall be secured and supported in such a manner that the cable and its termination shall not be exposed to undue mechanical strain.		Duplicate points if any may be ignored.

PRE-BID QUERIES

MDL Tender for 8 nos. ELL Cranes

Tender No. 1900000171 Dated 08 DECEMBER 2023

S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
14	54.2	All components of the PLC's shall be suitable for extended industrial use within the particular operating and climatic environment applicable to the crane. The memory capacity shall be sufficient to contain control algorithms for more than one function and space shall be available to extend the memory to support future developments. The PLC I/O ports shall be capable of being individually programmed to be either input or output and provision shall be provided to provide additional I/O ports if required in the future.	All components of the PLC's shall be suitable for extended industrial use within the particular operating and climatic environment applicable to the crane. The memory capacity shall be sufficient to contain control algorithms for more than one function and space shall be available to extend the memory to support future developments. The PLC I/O ports shall be capable of being individually programmed to be either input or output and provision shall be provided to provide additional I/O ports if required in the future.	All components of the PLC's shall be suitable for extended industrial use within the particular operating and climatic environment applicable to the crane. The memory capacity shall be sufficient to contain control algorithms for more than one function and space shall be available to extend the memory to support future developments. The PLC I/O ports shall be capable of being individually programmed and provision shall be provided to provide additional I/O ports if required in the future.
15	55.8	All the power and control terminations for external connections shall be terminated on the bottom portion of the control panel with suitable rated elmex terminals . There shall be 20 % spare terminals for future use.	All the power and control terminations for external connections shall be terminated on the bottom portion of the control panel with suitable rated elmex terminal blocks . There shall be spare terminals for future use.	All the power and control terminations for external connections shall be terminated on the bottom portion of the control panel with suitable rated terminal blocks . There shall be spare terminals for future use.
16	62.4	All lights and lamps shall be readily and safely accessible for repairs/replacement. The floodlights shall be positioned to allow such replacement be undertaken during normal crane operations safely, without the use of temporary platforms or scaffolding.	All lights and lamps shall be readily and safely accessible for repairs/replacement. The floodlights shall be positioned to allow such replacement be undertaken during normal crane operations safely, without the use of temporary platforms or scaffolding.	All lights and lamps shall be readily and safely accessible for repairs/replacement. The floodlights shall be positioned to allow such replacement be undertaken safely, without the use of temporary platforms or scaffolding.
17	64.1	Spring loaded end stopper shall be provided at both side of Crane bogie ends (Seaside and Shop side)	Spring loaded End stopper shall be provided at both side of Crane bogie ends (Seaside and Shop side)	Hydraulic buffer is acceptable
18	66.9	Clearances of cranes	Clearances of existing cranes Clearance dimensions given here in this clause are of existing cranes. After site study there is some scope for optimising those dimensions as harmonised solution after MDL approval. If we keep same dimensions as existing cranes then there is no room for harmonisation possibility. Hence, our design will not follow dimensions of existing cranes. Note:- After site study clearance dimensions can be optimised by taking approval from MDL	After placement of PO the bidder shall visit the site for checking clearances prior to crane design.

PRE-BID QUERIES

MDL Tender for 8 nos. ELL Cranes

Tender No. 1900000171 Dated 08 DECEMBER 2023

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PRE-BID QUERIES

MDL Tender for 8 nos. ELL Cranes

Tender No. 1900000171 Dated 08 DECEMBER 2023

S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
23	51.5 & 51.6	51.5 All motors shall be equipped with anti-condensation heaters and be provided with over temperature protection by means of embedded thermistors. 51.6 Type of motors – AC squirrel cage induction motor suitable for speed control of variable frequency drive.	All main motions shall be provided with anti-condensation heaters, over temperature protection. However, it is not feasible for small motors present in brakes, lubrication systems, ventilation fans etc.	51.5 All main motors shall be equipped with anti-condensation heaters and be provided with over temperature protection by means of embedded thermistors. 51.6 Type of Main Motors – AC squirrel cage induction motor suitable for speed control of variable frequency drive.
24	55.2	Control gear for the main crane motions shall include “hours run” meters, circuit testing capabilities and fault indication equipment. Any such faults arising shall be relayed to a conveniently located central fault indication panel able to identify the motion in which the fault has occurred. Fault SIGNAL/messages shall also be provided in the OPERATORS cab.	Crane management system provided will act as "Central fault indication system" to identify the motion in which the fault has occurred. These fault details shall also be available in operator cabin HMI.	Crane management system provided will act as "Central fault indication system" to identify the motion in which the fault has occurred. These fault details shall also be available in operator cabin HMI.
25	55.3	The electrical panels and inverters shall be mounted in cabinets.	E-Room wording shall be added. All major electrical, converters and inverters shall be integrated in common enclosures or cabinets for ease of troubleshooting and maintenance. These panels will be located in air conditioned Electrical room. Please accept.	All major electrical, converters and inverters shall be integrated in common enclosures or cabinets for ease of troubleshooting and maintenance. These panels will be located in air conditioned Electrical room.
26	66.11 (b) 22	Tandem operation System shall be provided for crane no.12 & 17. L. L. Crane no. 12 & 17 travels on same track.	We do not have this functionality for curved track	Tender conditions prevail
27	70.1	The main hoist, auxiliary hoist, and luffing machinery shall all be housed in a single weatherproof steel framed and steel clad machinery house mounted on the slewing superstructure. Converter/inverter cabinets together with the main electrical control panels shall be in air conditioned electrical room.	Cabinets word shall be removed. As a standard global practice we will provide Converter/inverter together with the main electrical control panels. These panels shall be in air conditioned electrical room. Please accept.	The main hoist, auxiliary hoist, luffing and slewing drive system shall be housed in air conditioned electrical room.
28	40.1	40.1 Wire ropes shall be of the pre-formed non-galvanized type of approved construction and from a reputable supplier. The ropes should be conforming to ISO 2408 Standard and be supplied in the pre-lubricated condition. The designed maximum rope load shall be defined using safety factors as per FEM. Rope Safe Working Load (SWL) to be used as given in rope manufacturer datasheet. 40.2 Wire ropes that are operated in pairs (if applicable) from left and right grooved drums shall be constructed to opposite hands. The rope ends shall be secured on each of the drums by means of bolted clamps.	40.1 Wire ropes shall be of the pre-formed non-galvanized type of approved construction and from a reputable supplier. The ropes should be conforming to ISO 16625 Standard and be supplied in the pre-lubricated condition. The designed maximum rope load shall be defined using safety factors as per FEM. Rope Safe Working Load (SWL) to be used as given in rope manufacturer datasheet. 40.2 Wire ropes that are operated in pairs (if applicable) from left and right grooved drums shall be constructed to opposite hands. The rope ends shall be secured on each of the drums by means of bolted clamps.	Tender conditions prevail for all, instead of ISO 2408, you may refer to ISO 16625 provided with a documented proof of the same.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 190000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
29	72.3	Luff radius indicator (HMI) shall be provided and shall be of digital display type with fitted in suitable place for easy maintenance. This shall be interconnected with loading of the crane for main hoist and auxiliary hook. Suitable warning and shutdown facility shall be provided to prevent overloading and exceeding limit of radius of the crane. Luff indicating system shall be reliable and rugged construction.	Luff radius indicator (HMI) shall be provided as part of operator HMI. and shall be of digital display type with fitted in suitable place for easy maintenance. This shall be interconnected with loading of the crane for main hoist and auxiliary hook. Suitable warning and shutdown facility shall be provided to prevent overloading and exceeding limit of radius of the crane. Luff indicating system shall be reliable and rugged construction.	Luff radius indicator shall be provided as part of operator HMI . This shall be interconnected with loading of the crane for main hoist and auxiliary hook. Suitable warning and shutdown facility shall be provided to prevent overloading and exceeding limit of radius of the crane. Luff indicating system shall be reliable and rugged construction.
30	77.2.9	Any other test as required by the TPIA.		Acceptable
31	66.5	Centralized lubrication system to be provided in each crane & access for all the lubrication points to be provided to facilitate maintenance of crane.		Tender condition prevails
32	15.e	The provision for the turnover pit shall be in suppliers' scope. The specifications and size of supply cable, cable reeling drum to be given by crane supplier to suit the size of pit. Isolation Switch / Connection box should have locking arrangement.	Foundation of the PIT shall not be in OEM scope of supply. Request MDL to confirm the same.	Only Civil work is in MDL scope, rest all in the bidder's scope
33	31.3	The structural members of the crane shall be of rolled steel plates and sections and shall be constructed using electric welding. Counterbalance weights shall be cast iron or cast steel.	Counterbalance weight can be made from steel box filled with concrete and steel scrap instead of cast iron/ cast steel counterweight mentioned in specification. We request MDL to accept the same.	Counterbalance weight can be made from steel box filled with concrete and steel scrap instead of cast iron/ cast steel counterweight mentioned in specification.
34	31.4	All enclosed volumes within the structure that are not 100% sealed shall be fitted with weatherproof covers or similar to facilitate inspection. Fully enclosed volumes shall be treated with a wax type corrosion inhibitor immediately prior to final closure.	Instead of wax type corrosion inhibitor, will provide corrosion resistant primer coat before the closing plate welding which is a proven practice. We request MDL to accept the same.	Corrosion resistant primer coat will be applied before the closing plate welding.
35	45.2	45.2 The jib must be capable of being lowered to the ground for rope changing and maintenance.	Jib crane will be lowered to parking position for rope changing / maintenance. We request MDL to consider the same.	Jib crane will be lowered to parking position for rope changing / maintenance.
36	44.5	Drive units shall be provided with a space heater and a humidistat to ensure proper operation after long periods of idleness in a location of very high humidity as defined in Clause 2.	Long travel drive space heaters are being controlled by PLC system by monitoring the idleness of the drives. Separate Humidistat is not envisaged. Please accept.	Long travel drive space heaters are being controlled by PLC system by monitoring the idleness of the drives.
37	49.2	Lightning arresters shall be provided at the upper extremities of the crane and the crane structure shall be electrically bonded to the rail as defined in Clause 29	Lightning related details are not available in clause 29. Please clarify.	Consider the clause 49.2 for fitting of the lightning arresters
38	49.8	10% of spare controls cables shall be provided , properly marked and terminated at spare connector or terminal blocks throughout the crane	We presume that it is a typographical error to mention as spare control cables. We are providing 10% spare cores in control cables and shall be terminated upto terminal blocks. We request MDL to confirm the same.	10% spare cores shall be provided in control wiring, properly marked and terminated at spare connector or terminal blocks throughout the crane
39	50.5	Appropriate slippings for the communications together with, as number of spare rings for future needs shall also be provided	Cable reeling drum considered is only for power supply connection. We don't envisage any communication slippings or future slippings in the cable reeling drum. Request MDL to confirm the same.	NOT REQUIRED
40	55.9	The gland plate shall be of 3.15 mm thick M.S, powder coated plate	Normally Standard gland plates are of 3mm thick M.S coated plate which will satisfy the requirement. Please accept.	The gland plate shall be of 3.0 mm thick M.S, powder coated plate.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 190000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
41	57.2	The systems provided shall be capable of informing a remote interrogation facility of the full results of the diagnostic and condition monitoring i.e. the information displayed on the Electrical Equipment House VDU – and enable remote diagnostic where the problem is not hardware related – or can be ameliorated by adjustments to settings embedded in the software	Please provide the details of remote interrogation facility such as system details, wireless connectivity details, communication protocol etc., to consider suitable provision.	The details of remote interrogation facility such as system details, wireless connectivity details, communication protocol etc., must be suitable as required.
42	71.3	Electrically operated variable speed wipers shall be provided together with screen washers to all main windows.	We usually provide fixed speed wipers in operator cabin applications. Please accept.	Electrically operated fixed speed wipers shall be provided together with screen washers to all main windows.
43	88	Profibus connector, Profibus cable, Profibus Slipring	We are using profinet/ethernet communication between fixed part and rotating part of the machine. Hence, referred spares are not applicable to us.	Profibus connector, Profibus cable, Profibus Slipring or similar system shall be provided to meet the functional requirements.
44	SOW clause no 27.1	Power Supply Power will be provided to the cable anchor pit for connection to the crane trailing cable as below: Supply: - 3 Phase	Power will be provided to the cable anchor pit for connection to the crane trailing cable as below: Supply: - 3 Phase + Earth	Power Supply Power will be provided to the cable anchor pit for connection to the crane trailing cable as below: Supply: - 3 Phase + EARTH
45	SOW clause no 87	PREFERRED MAKE FOR MAJOR COMPONENTS		
46		Sr.no 3 - VVVF DRIVES & PLC	Please add " Schneider "	Schneider make VVVF DRIVES & PLC
47		Sr.no 5 - HMI	Please add " Schneider "	Schneider make HMI
48		Sr.no 6 - Load Cells	Please add " IPA "	Tender Conditions prevails.
49		Sr.no 14 - Anemometer	Please add " Suntronics "	Tender Conditions prevails.
50		Gear Boxes	Please add: " Shanti , Elecon , NAW, Rossi "	Shanti , Elecon , NAW, Rossi make Gear Boxes
51		Paint	Please add: " Morsun "	Tender Conditions prevails.
53	SOW	The design, manufacture, inspection and testing at works at all stages as required, supply, erection, testing and commissioning shall be covered under inspection by a TPIA	Inspection and testing at work as define will be demonstrate in stage manner, however the final erection will be done at Mazagaon Dock Limited and will be tested for all performance parameters at site	The TPIA inspection for the fabrication will be carried out at the place of fabrication and erection, testing, inspection & commissioning will be at MDL premises
54	SOW clause no 15.1.e	The provision for the turnover pit shall be in suppliers' scope. The specifications and size of supply cable, cable reeling drum to be given by crane supplier to suit the size of pit. Isolation Switch / Connection box should have locking arrangement	Civil Work and the provision for engineering for turn over anchor pit shall be done by MDL	The design of the anchoring pit will be provided by vendor and the digging of pit with concreting will be done by MDL.
55	SOW clause no 15.k	Necessary clearance to be checked at the site between machinery house, counterweight and Slipway cover sheds/ other obstructions during Slewing & LT motion of the cranes. Various obstructions for SL, Luff & LT motion are shown in drawings. These dimensions are only for reference only and bidder shall visit the site for cross verify/check before designing of the crane.	We request MDL for providing site drawings so that it could easy for understanding.	Site drawing and probable fouling of the crane movement already shared with the vendor in Tech Specs, however vendors were requested to visit the site to ascertain and get confirmation so that the tail radius and stability can be calculated and implemented in the design.
56	SOW clause no. 30.2	The cranes shall also be equipped with some form of mechanical locking device(s), by stowage pins for example, locating into special reinforced anchor location or similar to secure against movement during storm conditions	We will provide mechanical locking device, however, concrete and fixing of anchor box in jetty will be in MDL scope.	Concrete and fixing of anchor box in jetty will be in MDL scope.
57	SOW clause no. 31.3	Counterbalance weights shall be cast iron or cast steel	As per practice, concrete is generally used for counterbalance weights. We will be using concrete, please confirm.	Counterbalance weights shall be cast iron or cast steel or concrete with steel
58	SOW clause no. 34.6	The overall systems shall be designed to provide 05 year coating life with minimum degradation of the top coat colour over this period.	Painting after two years will be in MDL scope.	Please refer the revised SoW for para no 34 Coating System.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
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S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
59	SOW clause no. 40.2	Wire ropes that are operated in pairs (if applicable) from left and right grooved drums shall be constructed to opposite hands. The rope ends shall be secured on each of the drums by means of bolted clamps	As per standard practice we are giving same lay in all our applications. The procurement of LHO rope is time consuming and availability is a problem. We wish to provide RHO on both sides, please confirm	Tender conditions prevail.
60	SOW clause no. 45.2	The jib must be capable of being lowered to the ground for rope changing and maintenance	This is only possible in wire rope luffing. Screw and Hydraulic system jib cannot be lowered to ground level. We may use screw mechanism during detailing engineering. Please confirm	The jib must be capable of being lowered to suitable height for rope changing and maintenance through wire rope type luffing system.
61	SOW clause no. 45.3	As a minimum, the luffing system employed shall be duplicated for safety, such that in the event of one element of the system failing the remaining element(s) will be able to securely retain the maximum possible load / outreach combination	The duplicate system is not possible as the duplication system will be hindering the operation.	Any duplication causing hindrance to be ignored.
62	SOW clause no. 45.7	Mechanical stoppers to be provided at both ends in the case of a luffing screw mechanism in addition to limit switches and structural buffers	Stopper is inbuilt in luffing mechanism.	As wire rope type luffing system, is being used, Luff screw mechanism to be ignored
63	SOW clause no. 47.8	A drum speed indicator calibrated in m/min shall be fitted in the view of the crane operator.	Do you wish to say it is HMI in the operator cabin that will show the speed of motion? In such a case there is an encoder on the motor shaft and on that basis, speed is calibrated.	Acceptable with HMI & encoder on the motor
64	SOW clause no. 50.1	The reel shall be driven by a suitable electric motor.	Please indicate the type of CRD and also whether it is motorised or mechanical. As in a mechanical system we will be using a torque controller and a simple induction motor and in case of electrical system it will be a stall torque motor.	Stall torque motor system is acceptable
65	SOW clause no. 50.6	The cable reel drive system shall be capable of paying out cable whilst in the un-powered condition, in response to wind movement of the crane, without over tensioning the cable.	This will not be possible in CRD arrangement as in the stopped condition the motor is in braked condition. CRD Feed Point whether at start or middle is not shown.	The cable reel drive system shall be capable of paying out cable whilst in the un-powered condition, in response to wind movement of the crane, without over tensioning the cable. CRD Feed Point will be in mid-point.
66	SOW clause no. 57.1	Crane Management system Crane Operations Monitoring and Management. Crane Fault Monitoring, Diagnosis Crane Condition Monitoring	CMS system is the scope limited only to gear box and motor of Main hoist. Do we have to consider vibration and temperature.	Crane Management system Crane Operations Monitoring and Management. Crane Fault Monitoring, Diagnosis Crane Condition Monitoring. Vibration and temperature measurement is not to be included.
67	SOW clause no. 70.4	A rope reeving winch or similar consideration shall be provided to assist with rope changing. The design and layout shall be such as to facilitate rope changes for each of the rope drives.	Please elaborate	Electric powered winch to be installed for assisting the changing of wire rope instead of pulling out and winding manually.
68			Rail Mounted Electro-Hydraulic level luffing crane. However, it has hydraulic system as core technology and No Auxiliary Hoist . Accordingly, Please advise, whether it would be acceptable?	Not Acceptable.
69	SOW clause no 15.k	Necessary clearance to be checked at the site between machinery house, counterweight and Slipway cover sheds/ other obstructions during Slewing & LT motion of the cranes. Various obstructions for SL, Luff & LT motion are shown in drawings. These dimensions are only for reference only and bidder shall visit the site for cross verify/check before designing of the crane.	Crane Design Limitation - Is there any interference structure on the way of crane track? - Is there any interference structure around crane operation boundary, especially the rear side of crane when it swivel.	Site drawing and probable fouling of the crane movement already shared with the vendor in Tech Specs, and vendors were requested to visit the site to ascertain and get confirmation so that the tail radius and stability can be calculated and implemented in the design.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 190000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
70			Painting Procedure & Surface preparation requirement (Please confirm following work sequence) - The surface preparation of steel materials are SP10 (SA 2.5) before dispatch to production. - After the structure are fabricated, the damaged area will be treated by power tooling as SP3. - Under surface preparation of SP3 condition, the painting work will be performed.	1. The surface preparation of steel materials are SP10 (SA 2.5) before dispatch to production is acceptable. 2. The damaged area treatment by power tooling as SP3 shall be as per paint manufacturer's recommendations. 3. The painting work under surface preparation of SP3 condition shall be as per paint manufacturer's recommendations. Note: Please refer the revised SoW for para no 34 Coating System as detailed in Table 1 of Sr. no. 26 at Corrigendum I.
71			Non- AVL(approved vendor list) Parts - Is it acceptable to use maker standard parts for items which are not listed on AVL?	Yes it is acceptable only to use maker standard parts for items which are not listed on AVL.
72			Installation Equipment - Can Buyer support to use Goliath crane for cargo unloading and crane installation?	Please refer Encl no 21. of SOW at Sr no 16 (i) Special Note.
73	27.1	The defect liability period shall be Three Years from the date of actual completion of entire work.	The Bidder requests to modify the clause in line with PCC as below: The defect liability period shall be Three One Years from the date of actual completion of entire work.	Tender conditions prevails. DLP will be three years
74	E tender Enquiry form clause no. 20	Delivery Period: The Completion period for entire work shall be 28 (Twenty Eight) MONTHS from the date of Placement of Purchase Order excluding mobilization period of 42 days. The stage wise schedule & grouping cranes is stipulated below:	As you are aware these cranes are complex in nature and require much detailed engineering, also the site is complex for carrying out our erection activities and will require more time than anticipated. We propose the Completion period for the entire work shall be 40 (Forty) Months from the date of the Placement of the Purchase Order excluding the mobilization period. Please confirm	The Completion period for entire work shall be 32 (Thirty Two) MONTHS from the date of Placement of Purchase Order excluding mobilization period of 42 days.
75	E tender Enquiry form clause no.27	Defect liability period The defect liability period shall be Three Years from the date of actual completion of the entire work.	As per standard practice followed for ELL Crane's and for electrical bought-out items standard 12-month warranty is available, hence we request MDL to consider a Guarantee/Warranty against damage or failure due to breakdowns/ defects for a period of 12 months from the date of the final acceptance of the crane at MDL site"	Tender conditions prevails. DLP will be three years

COMMERCIAL QUERIES				
Enclosure 32 - Part 2 - Particular Conditions of Contract				
1	4.2	Performance Security Within 21 days from the date of issue of Letter of Acceptance (LOA) or date of issue of Notice for Commencement of work, whichever is later, the Contractor shall submit "PERFORMANCE BANK GUARANTEE" as per MDL format at Enclosure-16 for 10% of contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of One year from actual completion of entire work.	The Bidder requests to modify the clause as below: Within 21 days from the date of issue of Letter of Acceptance (LOA) or date of issue of Notice for Commencement of work, whichever is later, the Contractor shall submit "PERFORMANCE BANK GUARANTEE" as per MDL format at Enclosure-16 for 10 5 % of contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of One year from actual completion of entire work.	Refer Corrigendum I.
2	13.7	Adjustments for Changes in Cost Clause 13.7 will be deleted.	The Bidder requests to reinstate the clause	Tender Conditions prevails.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 190000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
3	14.2	Advance Payment Clause 14.2 will be deleted, the Employer shall not make any advance payment.	The Bidder requests to reinstate the clause	Tender Conditions prevails.
4	14.7	Payment "The Employer shall pay to the Contractor within 45 days from the date of receipt of invoice, duly certified by the Engineer, on completion of the milestones indicated in clause 14.4 above.	The Bidder requests to modify the clause as below: "The Employer shall pay to the Contractor within 45 30 days from the date of receipt of invoice, duly certified by the Engineer, on completion of the milestones indicated in clause 14.4 above.	Refer Corrigendum I.
5	14.8	Delayed Payment The sub-clause is deleted.	The Bidder requests to reinstate the clause	Tender Conditions prevails.
6	14.11	Final Statement Before submission of the Final Bill, the Contractor should sign and submit a "No Claim Certificate" indicating that he has no claim against the company under the contract except as included in the final bill.	The Bidder requests to modify the clause as below: Before submission of the Final Bill Unless otherwise assessed and settled, the Contractor should sign and submit a "No Claim Certificate" during submission of the Final Bill indicating that he has no claim against the company under the contract except as included in the final bill.	Tender Conditions prevails.
Tender Enquiry Form				
7	26.1	Time is the essence of the contract and therefore the job, as ordered, should be completed on the dates mutually agreed upon in accordance with the delivery schedule. In cases of delay not attributable to MDL beyond the agreed schedule, the Contractor shall pay liquidated damages, a sum representing 0.5% (Half percent) per week or part thereof, subject to maximum of 5% of the undelivered/ unfinished portion of the respective line item.	The Bidder requests to modify the clause as below: Time is the essence of the contract and therefore the job, as ordered, should be completed on the dates mutually agreed upon in accordance with the delivery schedule. In cases of delay not attributable to MDL beyond the agreed schedule, the Contractor shall pay liquidated damages, a sum representing 0.5% (Half percent) per week or part thereof only for delayed supply of individual equipment , subject to maximum of 5% of the undelivered/ unfinished portion of the respective line item.	Tender Conditions prevails.
8	28.1	Within 21 days after placement of order, the Contractor shall submit "PERFORMANCE BANK GUARANTEE" as per MDL format at Enclosure-16 for 10% of contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of THREE YEARS from actual completion of entire work.	The Bidder requests to modify the clause in line with PCC as below: Within 21 days after placement of order, the Contractor shall submit "PERFORMANCE BANK GUARANTEE" as per MDL format at Enclosure-16 for 10 5% of contract value excluding taxes, duties, freight & services component etc. valid till 30 days beyond the stipulated Defect Liability Period of THREE ONE YEARS from actual completion of entire work.	Tender Conditions prevails. Please refer TEF Clause 28.
9	38.6	In case, MDL is unable to remove the hindrance immediately and if it is likely to take some time, the contractor shall be informed accordingly by the user. In such cases the contractor on MDL's approval may reduce manpower deployed on the work. The Contractor shall also note that Under no circumstances Contractor shall be paid for idle manpower.	The Bidder requests to modify the clause as below: In case, MDL is unable to remove the hindrance immediately and if it is likely to take some time, the contractor shall be informed accordingly by the user. In such cases the contractor on MDL's approval may reduce manpower deployed on the work. In such case, the Contractor shall be entitled for the costs pertaining to idling of workmen subject to providing of documentary evidence. also note that Under no circumstances Contractor shall be paid for idle manpower.	Tender Conditions prevails.

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 1900000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
10	47.3.1	<p>Arbitration clause applicable to non-CPSUs:</p> <p>If any dispute, difference or question shall, any time hereafter, arise between the parties hereto in respect of the construction of these presents or concerning anything herein contained or arising out of these presents or as to the rights, liabilities or duties of the said parties hereunder which cannot be mutually resolved by the parties, the same shall be referred to the sole Arbitrator appointed by the CMD, MDL. The Sole Arbitrator shall on matters referred to him / her indicate the reasons for his finding on each and every item of disputes. The venue of the Arbitration shall be Mumbai. Subject to above, The Arbitration will be governed by the provisions of Conciliation and Arbitration Act, 1996, as amended from time to time.</p>	<p>The Bidder requests to modify the clause as below:</p> <p>If any dispute, difference or question shall, any time hereafter, arise between the parties hereto in respect of the construction of these presents or concerning anything herein contained or arising out of these presents or as to the rights, liabilities or duties of the said parties hereunder which cannot be mutually resolved by the parties, the same shall be referred to a panel comprising three arbitrators. Each Party shall be entitled to nominate an Arbitrator and the two Arbitrators so nominated shall jointly nominate a third presiding Arbitrator in consultation with both the Parties. the sole Arbitrator appointed by the CMD, MDL. The Sole Arbitrator shall on matters referred to him / her indicate the reasons for his finding on each and every item of disputes. The venue of the Arbitration shall be Mumbai. Subject to above, The Arbitration will be governed by the provisions of Conciliation and Arbitration Act, 1996, as amended from time to time.</p>	Refer Corrigendum I.
11	24.1.6	<p>Payment for the completed activities shall be paid stage wise as under:</p> <p>New clause to be added under Note (iii)</p>	<p>In the event of delay in commencing and/or conducting the Commissioning test for reasons attributable to the Owner including failure to provide power, water and other utilities by the Owner, for more than 60 (sixty) days from the original date defined in the Project Time Schedule, the Contractor shall receive payment towards commissioning against BG of equal value valid for 3 months.</p> <p>In case of delay beyond six months but not later than the expiration of Warranty Period, for conducting and/or completing the commissioning test for reasons not attributable to the Contractor, the conducting of commissioning test and Contractor's subsequent balance obligations and it's commercial implication thereto, if any, including Taking Over, shall be mutually finalized between the parties, and the Contractor shall thereafter upon Owner's request and at mutually agreed terms conduct Commissioning.</p>	Tender Conditions prevails.
12	E tender Enquiry form clause no.5.1.1t	<p>Solvency: Bidders shall upload scanned copy of Solvency certificate addressed to MDL for at least Rs.17,700 Lakhs, issued by Nationalized / Reputed International / Scheduled bank except Co-Operative Banks, addressed to MDL. The Solvency Certificate should not be older than Six months as on the Tender date. It should be drawn from any of the banks in the list of approved Banks by SBI/Canara Bank published on MDL website www.mazagondock.in Vendors Bills/EMD Status List of First Class Bank approved by SBI</p>	Our bankers are CITI Bank and the same comes under the scheduled bank category, hence we will be submitting a solvency certificate from CITI Bank. Please confirm	solvency certificate from CITI Bank NA is Acceptable. Refer list of foreign banks provided by SBI for acceptance of Bank Guarantees available on MDL Website - www.mazagondock.in under Procurement/Vendors/Bills/EMD Status/List of Approved Banks

PRE-BID QUERIES				
MDL Tender for 8 nos. ELL Cranes				
Tender No. 1900000171 Dated 08 DECEMBER 2023				
S. No	Clause	Brief Description of Tender Clause	Deviations/ Clarification sought	Clarification by MDL
13	E tender Enquiry form clause no. 11.5	EMD: EMD can also be submitted in the form of Bank Guarantee in the prescribed format at Enclosure-15. The Bank Guarantee should be valid for 04 more weeks beyond the offer validity period indicated in the Tender and should be drawn from any of the banks in the list of approved Banks by SBI/Canara Bank published on MDL website www.mazagondock.in Vendors Bills/EMD Status List of First Class Bank approved by SBI on 24 April 2017. Bidders submitting EMD by way of Bank Guarantee are requested to inform their issuing Bank to provide complete details viz., address, telephone / fax number(s) and email id on their cover letter enclosing the BG.	Our bankers are CITI banks and the same comes under the schedule bank category, hence we will be submitting EMD in the form of Bank Guarantee from CITI Bank. Please confirm	EMD from CITI Bank NA is Acceptable. Refer list of foreign banks provided by SBI for acceptance of Bank Guarantees available on MDL Website www.mazagondock.in under Procurement/Vendors/Bills/EMD Status/List of Approved Banks
14	E tender Enquiry form clause no. 24.1.6	Payment Terms: No advance payment shall be made.	This tender calls for the supply of 8nos ELL Cranes, for manufacturing the same we would require a huge amount of money to invest and as such advance is essential for moving ahead. We propose as follows and request MDL to accept it Stage 1- 10% Advance of total basic contract cost advance along with an equivalent amount of BG. Rest payment stages percentage can be altered accordingly	Tender Conditions prevails.
15	E tender Enquiry form clause no. 49	TERMINATION: If MDL considers that the services rendered by the firm directly or through their associates are unsatisfactory, MDL reserves the right to terminate the agreement with firm in writing at any stage by giving them 30 days' notice. In case MDL decides to part with the services of the firm, the firm fees quoted by	Not acceptable. We request to please delete this clause We are a regular supplier of ELL cranes and are in service at various ports & shipyards in India, therefore we request you to please not to insist on this particular point.	TEF Clause no. 49 Deleted. Refer Corrigendum I.
16			Bid Evaluation table - Do you have bid evaluation table which shown evaluate items and score of each one? If yes, please provide. - Is this the lowest bidding which lowest bidder will win this tender? - Is there any benefit who has localization in their proposal?	1. No Bid Evaluation Table in Tender. Refer TEF Cl. 16 and 18. 2. Yes. Order will be placed on the overall L1 Bidder amongst Techno commercially qualified bidders as per TEF Cl. 5.1.2 (c) and 18. 3. Refer TEF Cl. 44 for PUBLIC PROCUREMENT POLICY (Preference to Make in India) ORDER 2017

Note: Bidders shall upload the above clarifications, duly signed and stamped along with Technical Bid.