

**SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 24 x IT SPECIFICATIONS**

**IT NO : 33/01/2024-25**

**IT SPECIFICATION COMERCIAL REPAIR CASE OF VEHICLE NO 100401 MS HINO BUS**

1.	SYSTEM	COMERCIAL REPAIR																		
2.	MAKE	HINO BUS																		
3.	MODEL	2010																		
4.	VEHICLE NO	100401 MS																		
5.	ITEM DESCRIPTION	<p style="text-align: center;"><b>Following items will be repair/replaced</b></p> <table border="1"><thead><tr><th>S No</th><th>Work Description Repair/Replace</th></tr></thead><tbody><tr><td>a.</td><td>Roof repair through fiber coating and roof paint work after fiber coating</td></tr><tr><td>b.</td><td>02X roof doors replacement</td></tr><tr><td>c.</td><td>Front kamani repair through replacement</td></tr><tr><td>d.</td><td>Fuel tank repair and fuel pipe replacement</td></tr><tr><td>e.</td><td>Speedometer, temperature gauge, oil pump gauge, battery gauge and wiring repair through replacement</td></tr><tr><td>f.</td><td>Pressure horn replacement</td></tr><tr><td>g.</td><td>Wheel alignment and greasing</td></tr><tr><td>h.</td><td>Interior cleaning and service</td></tr></tbody></table>	S No	Work Description Repair/Replace	a.	Roof repair through fiber coating and roof paint work after fiber coating	b.	02X roof doors replacement	c.	Front kamani repair through replacement	d.	Fuel tank repair and fuel pipe replacement	e.	Speedometer, temperature gauge, oil pump gauge, battery gauge and wiring repair through replacement	f.	Pressure horn replacement	g.	Wheel alignment and greasing	h.	Interior cleaning and service
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h.	Interior cleaning and service																			
6.	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING																		
7.	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF																		
8.	ELIGIBILITY	REGISTERED CONTRACTOR																		
9.	EDD	30 DAYS																		
10.	WARRANTY	WARRANTY 12 MONTHS																		
11.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER																		
12.	ANY OTHER RELEVANT INFORMATION	N/A																		

**IT NO : 33/02/2024-25**

**IT SPECIFICATIONS FOR REPAIR/ MAINTENANCE OF AFTERCOOLER CORE – PMST MAHASEER**

1.	Ship's Name	PMST MAHASEER
2.	Parent Equipment	GUANGXI 300HP Main Engine
3.	Sub Equipment	Intake air System
4.	Assembly components	Core, Aftercooler
5.	Make	GUANGXI YUCHAI Machinery Company LTD (CHINA)
6.	Model	YC6MK280L-C20
7.	Quantity	01
8.	Justification i.e PMS Failure/ FWT etc	Installed core deteriorated due continuous operation at sea and FWT.
9.	Work Required	Repair/ maintenance of aftercooler core.
10.	Detail scope of work	Repair/ maintenance of aftercooler core including following works: <ul style="list-style-type: none"><li>a. Chemical cleaning.</li><li>b. Pressure testing.</li><li>c. Tube punching/ blocking (if below 10%).</li><li>d. Inspection/ replacement of gaskets, O'rings, bolts, washers, covers and adopters.</li><li>e. Fabrication of inner tubes (if required).</li><li>f. Fabrication of outer fins (if required).</li></ul>
11.	Technical Spec	Part Number M21119160A
12.	Eligibilites	Any well-known national/ international firm having good experience for repair/ maintenance of GUANGXI engines and associated auxiliaries/ parts.
13.	EDC	15 days
14.	Warranty	01 year after installation and satisfactory trials onboard.
15.	Acceptance Criteria	<ul style="list-style-type: none"><li>a. Inspection of all replaced parts by end user.</li><li>b. Successful trials by end user after onboard installation upto maximum ERPMs.</li></ul>
16.	Any other relevant information	<ul style="list-style-type: none"><li>a. Installation/ replacement of marine grade spares/ accessories are to be ensured by contracted firm.</li><li>b. Dismantling and re-installation of in-way accessories is responsibility of the firm.</li><li>c. Any breakage/ material failure during dismantling/ installation will be lies with the firm.</li></ul>

**IT NO : 33/03/2024-25****IT SPECIFICATION FOR PROCUREMENT OF PAINT – 93 PMSA SQN**

1.	Ship's Name	93 PMSA SQN
2.	Parent Equipment	Paint Synthetic Enamel Signal Green
3.	Sub Equipment	N/A
4.	Assembly Equipment	N/A
5.	Make	BERGER/ ICI/ NELSON/ GOBIS/ DIAMOND
6.	Model	N/A
7.	Quantity	80 Liters
8.	Justification	Paint required for renovation of Sqn building/ hangar
9.	Work Required/ Defect	Procurement of Paint Synthetic Enamel Signal Green
10.	Detailed Scope of Work (Required from Repair Agency)	Procurement of Paint
11.	Technical specs (if any)	N/A
12.	Eligibilities	a. Items are to be procured in new condition only, from authorized vendors. b. Firms must have at least 01 year experience and registered with PMSA. c. Firms need to include freight/ insurance charges and custom duties/ taxes, etc (as applicable) in quotation. d. The firm should be registered in PMSA & NTN/GST registered.
13.	EDD	Maximum 02 weeks after issuance of order or earlier.
14.	Warranty	01 Year
15.	Acceptance criteria	Satisfactory physical condition of items.
16.	Any other relevant information	-

**IT NO : 33/04/2024-25****REPAIR/ MAINTENANCE OF VENTILATION SYSTEM OF FWD ENGINE ROOM -PMSS BARKAT**

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1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	Ventilation System
3.	Sub equipment	Supply Fan
4.	Assembly/ equipment	Supply Fan, Motor, Fan Body, Base of Fan, Fins
5.	Make	China
6.	Model	N/A
7.	Qty	02
8.	Justification	During normal operation observed undue noise from supply fan due to base angles perforated and fan efficiency also degraded due to perforated fins of motor. Insufficient ventilation of the FER/ Machinery compartment as effecting the smooth running of main machinery
9.	Work requisition	Repair/Maintenance of Port & STBD supply fan of FER
10.	Detailed scope of work	a. Repair/Maintenance of Port & STBD Supply Fans of FER. b. Overhauling of electric motors including replacement of bearings. c. Motor Fins are to be replaced with new. d. Removal of fan body, inspection and appropriate repair/ maintenance work on fan body and base plate angles. e. Inspection of power supply cables, replace with new if necessary. f. Ironing mesh in front of fan is to be replaced with new. g. New nuts & bolts (SS) to be used for installation. h. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm j. Any damage/ defect/wear tear occurred during course of removal, repair and installation of system/equipment will be repaired /met by firm k. Requirement of external services, if required will be responsibility of firm l. If any Repair/ Maintenance work goes beyond the defined scope of works will be processed accordingly
11.	Technical spec	
12.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. c. The firm should be NTN /GST registered
13.	EDC	14 x days after issuance of work/confirmation order
14.	Warranty	01 Year
15.	Acceptance criteria	a. Satisfactory work done by the firm.
16.	Any other information	-

**IT SPECIFICATIONS OF ISAT DOCK II MARINE SET – PMSS BARKAT**

S No	IT SPECIFICATIONS	
1.	Parent Equipment	ISAT DOCK II MARINE
2.	Sub equipment	-
3.	Assembly component	ISAT DOCK II MARINE ANTENNA, ANTENA CABLE AND BASE
4.	Make	INMARSAT UK
5.	Model	BEAM INMARSAT mast/pole marine antenna active (ISD710)/ STANDARD INMARSET
6.	Quantity	01 each
7.	Justification i.e PMS/ Failure/FWT etc	Electronic Failure
8.	Work Required/ Defect	Repair/ Replacement and installation of ISAT DOCK II MARINE antenna alongwith cables, connectors and base
9.	Detailed scope of work	<p>a. Repair/ Replacement and installation of ISAT DOCK II MARINE antenna alongwith cables, connectors and base with new one.</p> <p>b. Any accessories/ items required during installation work will be provided by the firm.</p> <p>c. Any other work required to ensure the good quality and optimum performance of work.</p> <p>d. Ensuring satisfactory operation of complete system after installation.</p>
10.	Technical Specs (If any)	<p>Power supplied by ISATDOCK(no additional power required)</p> <p>Temperature range: (-40C to 70C)</p> <p>Frequency : L BAND (1-2 GHz)</p> <p>Battery Type : INMARSAT Li-ion Battery 3.7V/ 12Wh</p> <p>Battery Capacity :3180 mAh</p>
11.	Eligibility Criteria	<p>a. As per TSR</p> <p>b. The firm should visit onboard and access the extent of required work and understand exact nature of defect before quotation.</p> <p>c. The firm should be having good experience to repair/maintenance/ replacement of such system/equipment.</p> <p>d. The firm should be NTN/GST registered.</p> <p>e. Firm to provide services for ISAT DOCK II MARINE Antenna during warranty period.</p>
12.	EDC	15 x working days after issuance of work order.
13.	Warranty	01 year
14.	Acceptance Criteria (If any)	HATS/ SATs after completion of work
15.	Any other relevant information	Nil

**REPAIR/ MAINTENANCE OF 24VDC CHARGING/DISCHARGING SYSTEM - PMSS BARKAT 15**

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	24VDC Charging System
3.	Sub equipment	24VDC Charging And Discharging Panels
4.	Assembly/ equipment	Change over switches two pole breakers fuses and electric cables
5.	Make	China
6.	Model	N/A
7.	Qty	05 x change over switches (50 Amps DC) 05 x 2Pole Breakers (10 Amps DC) 10 x Fuses (30 Amp DC) 04 x DC Volt Meters (Range 0-50 VDC) 05 x DC Ampere Meters (Range 0-100 Amps)
8.	Justification	24VDC Panels with accessories performance degraded panels failed to charge main engine starting batteries and associated systems
9.	Work requisition	Change over switches, breakers and fuses to be replaced with new
10.	Detailed scope of work	<p>a. Replacement of 24VDC panels change-over switches, breakers and fuses.</p> <p>b. Changeover, switches, breakers and fuses must be proper secured and fixed.</p> <p>c. All spares, tools/ equipment accessories etc required for said replacement are to be arranged by the firm.</p>
11.	Technical spec	05 x change over switches (50 Amps DC) 05 x 2Pole Breakers (10 Amps DC) 10 x Fuses (30 Amp DC) 04 x DC Volt Meters (Range 0-50 VDC) 05 x DC Ampere Meters (Range 0-100 Amps)
12.	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of same kind of work and experienced.</p> <p>c.</p> <p>d. The firm should be NTN /GST registered.</p> <p>e. Any damage/defect/wear tear occurred during course of removal, repair and installation of system/ equipment will be repaired/ met by firm.</p> <p>f. Cables are to be marked properly for identification.</p>
13.	EDC	07 X days after issuance of work/confirmation order
14.	Warranty	01 Year
15.	Acceptance criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. All spare wires to be used marine version and branded.</p> <p>c. Shelf Life minimum 10 years.</p> <p>d. Physical inspection and suitability for spares by end user</p>
16.	Any other information	

**IT NO : 33/07/2024-25**

**IT SPECIFICATION FOR DEFECT RECTIFICATION OF SAU II PLC OF FIRE MAIN PRESSURE AND FLOOD ALARM SENSORS FWD AND AFT OF DAMAGE CONTROL MONITORING AND CONTROL SYSTEM – PMSS DASHT**

S No.	Description	
1.	Parent Equipment	Damage Control Monitoring and Control System
2.	Sub Equipment	Fire Main Pressure and Flood Alarm Sensors
3.	Assembly component	SAU II PLC and Sensors of Fwd and Aft
4.	Make	Siemens CPU224XP S7-200 PLC
5.	Model	STHSGSAU
6.	Qty	02 (Fwd and Aft)
	Justification	Integrated Damage Control Monitoring and Control System unable to read Firemain Pressure and Flood Alarm Sensors. Defect diagnosis by SS indicates malfunctioning of PLC SAU II
	Work req/ Defect	Configuration of firemain sensors and flood alarm sensors with integrated Damage Control Monitoring and Control System through replacement of SAU II PLC and sensors with new (OEM only)
	Detailed Scope of Work	a. Complete detailed health assessment of Damage Control Monitoring and Control System specifying all minor/ major and hidden defects and provision of detailed report of health assessment b. Inspection/ repair/ replacement of SAU II PLC (Siemens) and Firemain Pressure and Flood Alarm Sensors of Fwd and Aft c. Repair/ replacement of all hardware components of main DDC system panel on bridge. <i>defective</i> d. Complete software programming of all components related to Damage Control Monitoring and Control System. e. Programming of SAU II PLC (Siemens) f. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable g. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm h. SAT running of Damage Control Monitoring and Control System j. Repair/ Replacement of any parts/spares of main DCC system/panel
	Technical specs	As per OEM Manual/ Specs
	Eligibilities	Reputable local contractor having working experience of PLC Siemens
	EDC	05 x Days
	Warranty	One Year warranty after satisfactory test/ trials. Any malfunctioning/ error or software requirement/ any hardware component replacement within warranty period will be rectified by firm and will be sole responsibility of firm for defect rectification of the system and SAT running of DCC system
	Acceptance Criteria	a. OEM Certified spares only b. Upon scrutiny of item and provided documents c. Synchronization and display of correct firemain pressure and flood alarm sensors on system d. Satisfactory operation of SAU II PLC and all sensors and integration of DCC System and SAT trials of Damage Control Monitoring and Control System
	Any other information	Contact SS/ MEO and must visit onboard for clear understanding of scope of work

**IT NO : 33/08/2024-25****IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF HERMETICALLY SEALED  
COMPRESSOR NO. 1 – PMSS DASHT**

S No.	Description	
1	Parent Equipment	Air Conditioning System JTLS-168 (IV) Marine Light Water Chiller
2	Sub Equipment	Compressor No. 1
3	Assembly component	Hermetically Sealed Compressor (Model ZR190KCE-TFD with Oil Heater) Part No. 06.01.057
4	Make	Jiangsu Josun Air Conditioner Co., Ltd
5	Model	JTLS-42 (I) Water Chiller Module
6	Qty	01
7	Justification	Compressor No 1 defective
8	Work req/ Defect	Installation/ replacement of 01 x hermetically sealed compressor
9	Detailed Scope of Work	<ul style="list-style-type: none"> <li>a. Replacement of 01 x Hermetically Sealed Compressor</li> <li>b. Inspection/ repair/ replacement of Condenser, Heat Exchanger and Expansion Valves</li> <li>c. Replacement of LP/ HP safeties and Water Flow Switch with new (OEM specified only)</li> <li>d. Provision of R-404A gas by firm during and with in warranty period</li> <li>e. Replacement of 02 x flexible pipes (pressure hoses)</li> <li>f. Replacement of 01 x Magnetic Contactor (LC1-D32M7C) along with Overload Relay (LRD-32C) and Auxiliary contacts</li> <li>g. System Gas charging (R-404A) by contractor for test/ trials or if leakage observed in warranty period</li> <li>h. Inspect/ repair/ replace Controller Module (CPU226 CN (6ES7216-2BD23-0XB8) of AC Circuit and programming of CPU module</li> <li>j. Satisfactory full load test/ trials upto command satisfaction</li> <li>k. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable</li> <li>l. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm</li> </ul>
10	Technical specs (if any)	As per OEM Manual/ Specs
11	Eligibilities	Reputable local contractor having working experience of Chiller Plant repairs onboard MPVs
12	EDC	05 x Days
13	Warranty	Two Years compressor warranty after satisfactory test/ trials. All leakages or pinholes in the circuit within warranty period will be rectified by firm with charging of gas and/ or replacement of any parts/ spares if needed with in whole warranty period
14	Acceptance Criteria	<ul style="list-style-type: none"> <li>a. OEM Certified spares only (as mentioned with part numbers)</li> <li>b. Upon scrutiny of item and provided documents i.e. technical specifications</li> <li>c. Satisfactory operation without high vibration and noise.</li> <li>d. Satisfactory operation without refrigerant leakage.</li> </ul>
15	Any other Information	Contact SS/ visit onboard for clear understanding of scope of work

**IT SPECIFICATION FOR REPAIR /REPLACEMENT OF HERMETICALLY SEALED COMPRESSOR NO.4  
- PMSS DASHT**

S No.	Description	
1.	Parent Equipment	Air Conditioning System JTLS-168 (IV) Marine Light Water Chiller
2.	Sub Equipment	Compressor No. 4
3.	Assembly component	Hermetically Sealed Compressor (Model ZR190KCE-TFD with Oil Heater) Part No. 06.01.057
4.	Make	Jiangsu Josun Air Conditioner Co., Ltd
5.	Model	JTLS-42 (I) Water Chiller Module
6.	Qty	01
7.	Justification	Compression chamber/ pump is providing insufficient compression to the compressor resulting in higher current draw and tripping of compressor no 4
8.	Work req/ Defect	Installation: replacement of 01 x hermetically sealed compressor
9.	Detailed Scope of Work	<ul style="list-style-type: none"> <li>a. Replacement of 01 x Hermetically Sealed Compressor</li> <li>b. Inspection, repair/ replacement of Condenser, Heat Exchanger and Expansion Valves</li> <li>c. Replacement of LP/ HP safeties and Water Flow Switch with new (OEM specified only)</li> <li>d. Provision of R-404A gas by firm with in warranty period</li> <li>e. Replacement of 02 x flexible pipes</li> <li>f. Replacement of 01 x Magnetic Contactor (LC1-D32M7C) along with Overload Relay (LRD-32C) and Auxiliary contacts</li> <li>g. System Gas charging (R-404A) by contractor for test/ trials or if leakage observed in warranty period</li> <li>h. Inspect/ repair/ replace Controller Module (CPU226 CN (6ES7216-2BD23-0XB8) of AC Circuit</li> <li>i. Satisfactory full load test/ trials upto command satisfaction</li> <li>k. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable</li> <li>l. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm</li> </ul>
10.	Technical specs (if any)	As per OEM Manual/ Specs
11.	Eligibilities	Reputable local contractor having working experience of Chiller Plant repairs onboard MPVs
12.	EDC	05 x Days
13.	Warranty	Two Years compressor warranty after satisfactory test/ trials. All leakages or pinholes in the circuit within warranty period will be rectified by firm with charging of gas and/ or replacement of any parts/ spares if needed
14.	Acceptance Criteria	<ul style="list-style-type: none"> <li>a. OEM Certified spares only (as mentioned with part numbers)</li> <li>b. Upon scrutiny of item and provided documents i.e. technical specifications</li> <li>c. Satisfactory operation without high vibration and noise.</li> <li>d. Satisfactory operation without refrigerant leakage.</li> </ul>
15.	Any other Information	Contact SS/ visit onboard for clear understanding of scope of work

**IT SPECIFICATION FOR REPLACEMENT/ FABRICATION OF ZINC ANODES -  
PMSS KASHMIR**

1.	System	Sea water system																																																																																								
2.	Sub system	Zinc anodes																																																																																								
3.	Assembly Compartment	Misc																																																																																								
4.	Make	N/A																																																																																								
5.	Model	N/A																																																																																								
6.	Quantity	272																																																																																								
7.	Justification	FWT																																																																																								
8.	Work Required/ Defect	Replacement/ Fabrication of zinc anodes																																																																																								
9.	Scope of Work	<p>Fabrication of zinc anodes as per following requirement:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Parent Equipment</th> <th>Sample</th> <th>No. of anodes</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Refrigeration Unit Condenser</td> <td>Yes</td> <td>09 in each plant</td> <td>18</td> </tr> <tr> <td>b.</td> <td rowspan="2">Main DG Heat Exchanger</td> <td rowspan="2">Yes</td> <td>18 in each DG</td> <td>36</td> </tr> <tr> <td>c.</td> <td>04 in each DG Total: 12</td> <td>24</td> </tr> <tr> <td>d.</td> <td>Fin Stabilizer</td> <td>Yes</td> <td>08 in each system</td> <td>16</td> </tr> <tr> <td>e.</td> <td>Main Engine Intercooler</td> <td>Yes</td> <td>16 in each engine</td> <td>32</td> </tr> <tr> <td>f.</td> <td>Gearbox cooler</td> <td>Yes</td> <td>08 in each system</td> <td>16</td> </tr> <tr> <td>g.</td> <td>CPP cooler</td> <td>Yes</td> <td>08 in each system</td> <td>16</td> </tr> <tr> <td>h.</td> <td>Steering system</td> <td>Yes</td> <td>12 in each system</td> <td>24</td> </tr> <tr> <td>i.</td> <td>Main sea chest strainer</td> <td>Yes</td> <td>04 in each</td> <td>08</td> </tr> <tr> <td>j.</td> <td>Firemain sea chest</td> <td>Yes</td> <td>03 in each</td> <td>06</td> </tr> <tr> <td>k.</td> <td>Main fridge sea water pump strainer</td> <td>Yes</td> <td>03</td> <td>03</td> </tr> <tr> <td>l.</td> <td>Fire water retaining pump strainer</td> <td>Yes</td> <td>03</td> <td>03</td> </tr> <tr> <td>m.</td> <td>RHIB engine sea water cooler</td> <td>Yes</td> <td>04 in each cooler</td> <td>08</td> </tr> <tr> <td>n.</td> <td>RHIB boat bucket (Round type)</td> <td>Yes</td> <td>12 in each boat</td> <td>24</td> </tr> <tr> <td>o.</td> <td>RHIB boat bucket (rod type)</td> <td>Yes</td> <td>12 in each boat</td> <td>24</td> </tr> <tr> <td>p.</td> <td>RHIB boat shaft (Small)</td> <td>Yes</td> <td>04 in each boat</td> <td>08</td> </tr> <tr> <td>q.</td> <td>RHIB boat shaft (large)</td> <td>Yes</td> <td>03 in each boat</td> <td>06</td> </tr> </tbody> </table>	S. No	Parent Equipment	Sample	No. of anodes	Qty	a.	Refrigeration Unit Condenser	Yes	09 in each plant	18	b.	Main DG Heat Exchanger	Yes	18 in each DG	36	c.	04 in each DG Total: 12	24	d.	Fin Stabilizer	Yes	08 in each system	16	e.	Main Engine Intercooler	Yes	16 in each engine	32	f.	Gearbox cooler	Yes	08 in each system	16	g.	CPP cooler	Yes	08 in each system	16	h.	Steering system	Yes	12 in each system	24	i.	Main sea chest strainer	Yes	04 in each	08	j.	Firemain sea chest	Yes	03 in each	06	k.	Main fridge sea water pump strainer	Yes	03	03	l.	Fire water retaining pump strainer	Yes	03	03	m.	RHIB engine sea water cooler	Yes	04 in each cooler	08	n.	RHIB boat bucket (Round type)	Yes	12 in each boat	24	o.	RHIB boat bucket (rod type)	Yes	12 in each boat	24	p.	RHIB boat shaft (Small)	Yes	04 in each boat	08	q.	RHIB boat shaft (large)	Yes	03 in each boat	06
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10.	Technical Specs	As per installed material
11.	Eligibilities	<ul style="list-style-type: none"> <li>a. Have experience to work for ships (preferably PMSA ships)</li> <li>b. Company must be certified with HQ PMSA</li> <li>c. Company must be Income and Sales tax</li> <li>d. Company must have experience of fabrication of zinc anodes</li> <li>e. Certificate of material used in fabrication (as mentioned in Encl 1)</li> </ul>
12.	EDC	02 weeks after award of contract
13.	Warranty	01 year shelf life and 03 months running in system.
14.	Acceptance Criteria (if any)	Item will be accepted after satisfactory performance of zinc anodes, i.e. visual sacrificial capacity of anode after 10 days of installation.
15.	Any other relevant information	Contact Ship staff (Cell # 0321-3000503)

**IT SPECIFICATION: DEFECT RECTIFICATION OF HIGH PRESSURE AIR  
COMPRESSORS (HPAC)**

1.	System	High Pressure Air Compressor
2.	Sub system	HPAC No 1 & 2
3.	Assembly Component	Misc
4.	Make	Wuhan Mekand Equipment Co., Ltd.
5.	Model	MKD-50/150
6.	Quantity	02
7.	Justification	FWT
8.	Work Required	Defect rectification of HPAC misc issues as mentioned in para 9
9.	Scope of Work	<p>Following work to be carried out on both compressors:</p> <ul style="list-style-type: none"> <li>(i). Clean the element of the high-pressure filter</li> <li>(ii). Inspection/ repair of cylinder head seals</li> <li>(iii). Inspection/ repair of pistons of all stages</li> <li>(iv). Servicing of all safety valves</li> <li>(v). Replacement of air intake filters</li> <li>(vi). Replacement of separators</li> <li>(vii). Replacement of oil (N28355. Qty 40 liters)</li> <li>(viii). Servicing of condensation discharge valve</li> <li>(ix). Spare to be provided by firm</li> <li>(x). Growth work will be bear by firm</li> </ul>
10.	Technical Specs	As per Technical Manual (3-3101-450-001)
11.	Eligibility Criteria	<ul style="list-style-type: none"> <li>(i). Have experience to work for ships (preferably PMSA ships)</li> <li>(ii). Company must be certified with HQ PMSA.</li> <li>(iii). Company must be Income and Sales tax registered.</li> <li>(iv). Company must have good experience of repair/ maintenance of High Pressure Air Systems.</li> </ul>
12.	EDC	15 Days after confirmation of order
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	Satisfactory trials of both HPAC on desired pressure of all stages and with zero leakage for 15 days
15.	Any other relevant information	Firm must visit onboard before providing quotation (0321-3000000000)



**IT NO : 33/11/2024-25****IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF ZONE MONITOR, SMOKE DETECTOR, HEAT DETECTOR, OPTICAL SMOKE DETECTOR AND MANUAL CALL POINTS – PMSS ZHOB**

S No	Description		
1.	Parent equipment	Fire Alarm System	
2.	Origin	United Kingdom (UK)	
3.	Sub System	Detectors	
4.	Model	MA80162M2	
5.	Make	Syncro ASM	
6.	Quantity	Part No	Description Qty
		5800-400	Heat Detector 4
		ORB-OP-52028-APO	Optical Smoke Detector 1
		58000-600	Smoke Detector 4
		58100-971	Manual Call Point 8
		55000-845	Zone Monitor 1
7.	Justification	FWT	
8.	Work Required/ Defect	Smoke Detector, Heat Detector, Optical Smoke Detector and Manual Call point are malfunctioning.	
9.	Detailed Scope of Work	<p>a. Repair/ Replacement of all detectors through trained technicians.</p> <p>b. Functional replacement can be undertaken for non-available/ obsolete component.</p> <p>c. Onboard test/ trials to be conducted after replacement.</p> <p>d. Spare(s)/components required for repair work will be arranged by contractor.</p> <p>e. Any growth work during replacement will be borne by the contractor. Ship will not provide any spare part/ additional amount in case of growth work.</p> <p>f. Any damage to the system during onboard testing of switching power supply will be borne by contractor.</p>	
10.	Technical Spec	As per OEM	
11.	Eligibility Criteria	Suitable contractor having working experience of PMSA Ships Electronics/ Electrical equipment	
12.	EDC/ EDD	2 weeks	
13.	Warranty	One year system (including component) warranty after successful trials	
14.	Acceptance Criteria	<p>a. Only successful test and trials onboard ship</p> <p>b. Certified spares to be used for avoiding damage to ship system.</p>	
15.	Any other information	Firms are requested to visit site before quoting for further information	

**IT NO : 33/12/2024-25****REPAIR/ MAINTENANCE OF HIGH PRESSURE AIR COMPRESSOR -PMSS BARKAT**

18

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	Air charging system
3.	Sub equipment	Compressor Air system
4.	Assembly/ equipment	High pressure Air compressor
5.	Make	China(Champion)
6.	Model	N/A
7.	Qty	01
8.	Justification	During normal operation observed relief valve operate at 900 psi (relief valve cut out at 900 psi as compared to 1400 psi) Degraded performance of HPAC is hampering normal routine as filling of EDDB bottles and diving sets
9.	Work requisition	Repair/Maintenance of High Pressure Air Compressor
10.	Detailed scope of work	<p>a. Removed HP lines ,pressure test and installed</p> <p>b. Pressure test of 02 relief valves for satisfactory operation relief vv must open at 1400 psi</p> <p>c. Change air filter with new</p> <p>d. Change oil with new</p> <p>e. Check compression ratio of piston</p> <p>f. New nuts &amp; bolts (SS) to be used for installation.</p> <p>g. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm</p> <p>j. Any damage/ defect/wear tear occurred during course of removal, repair and installation of system/equipment will be repaired /met by firm</p> <p>k. Requirement of external services, if required will be responsibility of firm</p> <p>l. If any Repair/ Maintenance work goes beyond the defined scope of works will be processed accordingly</p>
11.	Technical spec	320 bar HPAC
12.	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of same kind of work and experienced.</p> <p>c. The firm should be NTN /GST registered</p>
13.	EDC	14 x days after issuance of work/confirmation order
14.	Warranty	01 Year
15.	Acceptance criteria	a. Satisfactory work done by the firm.
16.	Any other information	-

**IT NO : 33/13/2024-25****IT SPECIFICATIONS FOR REPLACEMENT OF RO PLANT NO. 1 & 2 MEMBRANES –  
PMSS BASOL**

S No.	Description				
1.	Parent Equipment	Reverse Osmosis Sea Water Desalination Plant			
2.	Sub Equipment	Membranes			
3.	Assembly Component	Low & High Pressure Membranes			
4.	Make	Romer Environmental Protection (Shenzhen) Co, Ltd			
5.	Model	RR-FSHB3			
6.	Qty	Part No	Model No.	Description	Qty
		FSHB3-01000	2540	40-Inch High-Pressure Membrane	06 ✓
		FSHB3-01100	4040	40-Inch Low-Pressure Membrane	02 ✓
7.	Justification	High salinity and conductivity parameters due clogging of salts			
8.	Work Required/ Defect	Replacement of Reverse Osmosis Plant Membrane.			
9.	Detailed Scope of Work	a. Replacement of low pressure and high pressure Membrane. b. Onboard installation and satisfactory test/ trials.			
10.	Technical Specs	As per OEM Manual/ Specs.			
11.	Eligibilities Criteria	Any reputable contractor having working experience with PMSA.			
12.	EDD	30 days or ASAP			
13.	Warranty	01 year to be started after completion of successful test/ trials.			
14.	Acceptance Criteria	a. OEM Certified items must be used.			
		b. Technical specifications of item alongwith tech manual/ document to be provided by contractor.			
		c. Onboard satisfactory test/ trials in presence of contractor's rep.			
		d. Item must be genuine, packed and compatible with existing system. Aftermarket products and loose items will not be accepted.			
		e. Item will not be accepted in case of wrong size or non-compatibility.			
15.	Any other Information	a. Damage/ defect, if occurred during test/ trials will be vendor's responsibility. Same will be rectified by contractor free of cost.			
		b. Contractor must visit onboard prior participating to understand complete scope of work.			

S No	IT Specifications																																					
1.	Ship's Name	PMSS NUSRAT																																				
2.	Parent Equipment	Fresh water system																																				
3.	Sub Equipment	Fresh water lines																																				
4.	Assembly component	Fresh water lines																																				
5.	Make	Stainless Steel/ Copper-nickel alloy																																				
6.	Model	N/A																																				
7.	Qty	04 x Fresh Water Lines																																				
8.	Justification i.e PMS/ Failure/ FWT etc	FWT																																				
9.	Work Required / Defect	Repair/ replacement of fresh water lines as per sample																																				
10.	Scope of Work	<p>a. Dimension of 04 x Fresh water lines are as follows:</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Length</th> <th>DIA (Inch)</th> <th>No of Flanges</th> <th>No of Union</th> <th>No of Elbow</th> </tr> </thead> <tbody> <tr> <td colspan="6"><b>Fresh water lines</b></td> </tr> <tr> <td>a.</td> <td>1'-7"</td> <td>2"</td> <td>04</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>b.</td> <td>1'-4"</td> <td>2"</td> <td>02</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>c.</td> <td>1'-8"</td> <td>3/4"</td> <td>Nil</td> <td>01</td> <td>01</td> </tr> <tr> <td>d.</td> <td>1'-8"</td> <td>1"</td> <td>Nil</td> <td>01</td> <td>02</td> </tr> </tbody> </table> <p>b. Repair/ replacement of fresh water lines include:</p> <ol style="list-style-type: none"> <li>(1) Dismantling of lines with leakage</li> <li>(2) Fresh lines to be fabricated as per sample</li> <li>(3) Pressure testing of lines up to 3 bar</li> <li>(4) Erection of newly fabricated lines to replace degraded lines in fresh water supply circuit</li> </ol> <p>c. Improvised solution to be provided by firm for operational availability of fresh water supply during repair/ maintenance activity</p> <p>d. The firm will be responsible for welding/ cutting, if required</p> <p>e. The firm will arrange all spares, tools and accessories etc required for the same work</p> <p>f. The firm will be responsible for requirement of external services</p> <p>g. Any damage/ defect/ wear tear occurred during course of removal, repair and installation will be repaired by firm</p>	S No	Length	DIA (Inch)	No of Flanges	No of Union	No of Elbow	<b>Fresh water lines</b>						a.	1'-7"	2"	04	Nil	Nil	b.	1'-4"	2"	02	Nil	Nil	c.	1'-8"	3/4"	Nil	01	01	d.	1'-8"	1"	Nil	01	02
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b.	1'-4"	2"	02	Nil	Nil																																	
c.	1'-8"	3/4"	Nil	01	01																																	
d.	1'-8"	1"	Nil	01	02																																	

		h. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work
11.	Technical Spec	Material Stainless Steel/ Copper-nickel alloy is to be used
12.	Eligibility Criteria	<p>a. The firm must visit onboard and carry out inspection to establish the extent of required work</p> <p>b. The firm must have good experience of same kind of work required onboard</p> <p>c. The firm must be NTN/ GST registered</p>
13.	EDC	07 x working days after issuance of work order
14.	Warranty	01 x year
15.	Acceptance Criteria	Leakage free resumption of fresh water supply circuit to be proof at 3 Bar pressure
16.	Any other relevant information	Nil

**IT NO : 33/15/2024-25****IT SPECIFICATIONS OF FRESH WATER SYSTEM VALVES - PMSS NUSRAT**

S No	IT Specifications	
1.	Ship's Name	PMSS NUSRAT
2.	Parent Equipment	Fresh water system
3.	Sub Equipment	Fresh water valves
4.	Assembly component	Fresh water valves
5.	Make	Nickel-Aluminum Bronze
6.	Model	N/A
7.	Qty	05 x Fresh Water Valves
8.	Justification i.e PMS/ Failure/ FWT etc	FWT
9.	Work Required / Defect	Repair/ replacement of fresh water valves as per sample
10.	Scope of Work	<p>a. Dimension details of degraded fresh water valves are as:</p> <p>(1) Fresh Water Valve Diameter 1.5 inch</p> <p>b. Repair/ overhaul of fresh water valve includes:</p> <p>(1) Dismantling of degraded valves</p> <p>(2) Re-installation/ replacement of valves after incorporating necessary repair works</p> <p>c. Firm to devise improvised solution for operational availability of fresh water during repair/ maintenance activity period</p> <p>d. The firm will be responsible for welding/ cutting, if required</p> <p>e. The firm will arrange all spares, tools and accessories etc required for the same work</p> <p>f. The firm will be responsible for requirement of external services</p> <p>g. Any damage/ defect/ were tear occurred during course of removal, repair and installation will repair by firm</p> <p>h. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work</p>
11.	Technical Spec	1.5 inch diameter Gate valve
12.	Eligibility Criteria	<p>a. The firm must visit onboard and carry out inspection to establish the extent of required work</p> <p>b. The firm must have good experience of same kind of work required onboard</p>

		c. The firm must be NTN/ GST registered
13.	EDC	07 x working days after issuance of work order
14.	Warranty	01 x year
15.	Acceptance Criteria	SAT Ops of Fresh water circuit
16.	Any other relevant information	Nil

**IT NO : 33/16/2024-25****IT SPECIFICATIONS FOR MARINE INFRARED NIGHT VISION SYSTEM – PMSS ZHOB**

S No	Description	
1.	Parent equipment	Marine Infrared Night Vision System
2.	Type	HEOS-103-01
3.	Manufacture	China Shipbuilding Industry corporation -China
4.	Sub Equipment	Outboard Director
5.	Assembly Component	Pan-tilt block (NSN 6605PV6020003)
6.	Model	Marine Infrared Night Vision System MPV
7.	Justification	Outboard Director not follows command from control unit. Pan-tilt block found defective
8.	Work Required/ Defect	Repair / replacement of Pan-tilt block
9.	Detailed Scope of Work	Repair / replacement of Marine Infrared night vision Pan-tilt block
10.	Technical Spec	Power Supply AC 220V/ 50HZ Power 500W Pixel 762(H)x 582(V) Azimuth 360 Degree Continues Elevation + 30 Degree to -60 Degree
11.	Eligibility Criteria	Any registered and security wise clear local contractor who has working experience onboard MPVs
12.	EDC/ EDD	1 week
13.	Warranty	1 Year
14.	Acceptance Criteria	a. Only OEM certified item be accepted b. Item be accepted after satisfactory test/ HATs/ SATs c. Successful trials by end user along with satisfactory test/ trials sheets duly signed by the firm
15.	Any other information	Firms are requested to visit site before quoting for further information

**IT NO : 33/17/2024-25****IT SPECIFICATIONS - REPAIR/ MAINTENANCE OF 06 X HYDRAULIC ELECTRONIC UNIT INJECTORS (HEUI) FOR PORT MAIN ENGINE OF FRB-152 – WESTERN WING**

1.	Ship's Name	FRB-152
2.	Parent Equipment	Port Main Engine Caterpillar C-9 (Marine), USA (Serial No X9Y00352)
3.	Sub Equipment	Fuel System.
4.	Assembly Component	Hydraulic Electronic Unit Injector (HEUI) (Part No 241-9593).
5.	Make	Caterpillar, USA
6.	Model	C-9
7.	Quantity	06 in number
8.	Justification i.e PMS/ Failure/ FWT etc	(1) Performance of 06 x Hydraulic Electronic Unit Injectors (HEUI) degraded due continuous operation. (2) Engine failed to exceed beyond 1000 ERPMs. (3) Heavy black smoke being observed.
9.	Work Required/ Defect	Repair/ maintenance of 06 x Hydraulic Electronic Unit Injectors (HEUI).
10.	Detail Scope of Work	(1) Repair/ maintenance of 06 x Hydraulic Electronic Unit Injectors (HEUI) including replacement of internal & external parts. (2) Replacement of injectors external seals/ O'rings.
11.	Technical Spec	Hydraulic Electronic Unit Injector (HEUI) (Part No 241-9593) installed with Caterpillar C-9 main engine.
12.	Eligibility Criteria	Any well-known national/ international firm having good experience for repair/ maintenance of Caterpillar engines and associated auxiliaries/ parts.
13.	EDC	15 days.
14.	Warranty	01 x year after installation and satisfactory trials onboard.
15.	Acceptance Criteria	Inspection by end user subject to following tests/ trials:  (1) Injector solenoid test. (2) Cylinder cut out test. (3) Satisfactory trials upto 2500 ERPMs. (4) Pressure test certificate.
16.	Any other relevant information	Nil

**IT NO : 38/18/2024-25****IT SPECIFICATION OF PHILIPS 1 AMP FLUORESCENT 115v 60Hz 40W 04 ft****PMSS SABQAT**

1.	Parent Equipment	Ship lighting
2.	Sub Equipment	Lamp Fluorescent 115v 60Hz 40W 04 ft
3.	Assembly Component	Lamp Fluorescent 115v 60Hz 40W 04 ft
4.	Make	Philips or equivalent
5.	Model	Philips or equivalent
6.	Qty	25 in Nos
7.	Justification i.e PMS/Failure/ F.W.T etc	Item have been surveyed to PMSA Warehouse and require repair/ replacement. ✓
8.	Work required/ defect	Repair/ replacement of tube rod/ lamp fluorescent
9.	Detailed scope of work	Require repair/ replacement of tube rod/ lamp fluorescent
10.	Technical Specification	As per OEM/ 115v 60Hz 40W 04 ft (48 inch)
11.	Eligibilities	The firm should be NIN/GSI registered.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	i. OEM certified material ii. Satisfactory running trials
15.	Any other relevant information	NA

**IT SPECIFICATION OF PHILIPS TUBE LIGHT ELECTRONICS CHOCK 110V 40W****PMSS SABQAT**

1.	Parent Equipment	Ship's lighting
2.	Sub Equipment	Tube light electronic chock 110V 40W
3.	Assembly Component	Tube light electronic chock 110V 40W
4.	Make	Philips or equivalent
5.	Model	Philips or equivalent
6.	Qty	30 in Nos
7.	Justification i.e PMS/Failure/ F.W.T etc	Item have been surveyed to PMSA Warehouse and require replacement.
8.	Work required/ defect	Repair/ replacement of Tube light chock 110V 40W.
9.	Detailed scope of work	Required repair/ replacement of Tube light chock 110V 40W.
10.	Technical Specification	Electronics CHOCK 110V 40W
11.	Eligibilities	The firm should be NIN/GSI registered.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	OEM certified material.
15.	Any other relevant information	NA

**IT SPECIFICATION OF PHILIPS TUBE LIGHT ELECTRONIC CHOCK 110V 20W****PMSS SABQAT**

1.	Parent Equipment	Ship's lighting
2.	Sub Equipment	Tube light electronic chock 110V 20W
3.	Assembly Component	Tube light electronic chock 110V 20W
4.	Make	Philips or equivalent
5.	Model	Philips or equivalent
6.	Qty	50 in Nos
7.	Justification i.e PMS/Failure/ F.W.T etc	Item have been surveyed to PMSA Warehouse and require replacement.
8.	Work required/ defect	Repair/ replacement of Tube light chock 110V 20W.
9.	Detailed scope of work	Require repair/ replacement of Tube light chock 110V 20W.
10.	Technical Specification	Electronic chock 110V 20W
11.	Eligibilities	The firm should be NTN/GST registered.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	OEM certified material
15.	Any other relevant information	NA

**IT SPECIFICATION OF LUBE OIL FILTER FOR (MAIN DIESEL ENGINE)****PMSS SABQAT**

1.	Parent Equipment	Main diesel engine (MDE)
2.	Sub Equipment	Main diesel engine (MDE)
3.	Assembly Component	MDE Filter
4.	Make	Caterpillar
5.	Model	Main Diesel Engine (MDE) 3516
6.	Qty	08 in Nos
7.	Justification i.e PMS/Failure/ F.W.T etc	Item have been surveyed to PMSA Warehouse and require repair/ replacement
8.	Work required/ defect	Repair/ Reipacement of MDE Filter.
9.	Detailed scope of work	Require repair/ replacement of MDE Filter.
10.	Technical Specification	As per OEM/ Technical manual
11.	Eligibilities	vii. The firm should visit onboard and carry out inspection to establish the extent of required work. viii. The firm should have experience of the same kind of work. ix. The firm should be NTN/GST registered.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	ix. OEM certified material x. Satisfactory running trials
15.	Any other relevant information	NA

**IT SPECIFICATION: REPAIR/ REPLACEMENT OF PROPULSION & AUXILIARY MACHINERIES' FILTERS**

1.	System	Propulsion & Auxiliary Machineries' Filters																																																																																																									
2.	Sub system	Main Engines, DGs, Gearbox, CPP and Steering System																																																																																																									
3.	Assembly Compartment	Filters																																																																																																									
4.	Make	Misc																																																																																																									
5.	Model	Misc																																																																																																									
6.	Quantity	Misc																																																																																																									
7.	Justification	PMS/ CBM																																																																																																									
8.	Work Required/ Defect	Repair/ replacement of propulsion & auxiliary machineries filters																																																																																																									
9.	Scope of Work	<p>Replacement of following items:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Item Description</th> <th>System</th> <th>Part No</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Air filter Assembly</td> <td>Main DG</td> <td>3090042</td> <td>03</td> </tr> <tr> <td>b.</td> <td>Lub oil filter Element</td> <td></td> <td>383100</td> <td>06</td> </tr> <tr> <td>c.</td> <td>Lub oil filter 2</td> <td></td> <td>3889390</td> <td>03</td> </tr> <tr> <td>d.</td> <td>Fuel filter</td> <td></td> <td>3315843</td> <td>06</td> </tr> <tr> <td>e.</td> <td>Oil water separator</td> <td></td> <td>CCFJ400J-KC-08-01</td> <td>06</td> </tr> <tr> <td>f.</td> <td>Air filter</td> <td>EDG</td> <td>3103262</td> <td>02</td> </tr> <tr> <td>g.</td> <td>Lub oil filter</td> <td></td> <td>3401544</td> <td>02</td> </tr> <tr> <td>h.</td> <td>Water filter</td> <td></td> <td>4058965</td> <td>02</td> </tr> <tr> <td>i.</td> <td>Fuel filter</td> <td></td> <td>3315847</td> <td>02</td> </tr> <tr> <td>j.</td> <td>Oil water separator</td> <td></td> <td>2020PM-OR</td> <td>02</td> </tr> <tr> <td>k.</td> <td>Fuel filter</td> <td>Main Engine</td> <td>6374649</td> <td>08</td> </tr> <tr> <td>l.</td> <td>Lub oil filter centrifugal</td> <td></td> <td>80-421-01527-100</td> <td>08</td> </tr> <tr> <td>m.</td> <td>Lubrication oil filter</td> <td>Gearbox</td> <td>SPL80X</td> <td>04</td> </tr> <tr> <td>n.</td> <td>Working Oil Filter</td> <td></td> <td>41-43</td> <td>04</td> </tr> <tr> <td>o.</td> <td>Suction filter</td> <td>CPP</td> <td>HCLJ017-01</td> <td>02</td> </tr> <tr> <td>p.</td> <td>Return Oil Filter</td> <td></td> <td>HCLJ017-13</td> <td>04</td> </tr> <tr> <td>q.</td> <td>Air Filter</td> <td></td> <td>HCLJ017-15</td> <td>04</td> </tr> <tr> <td>r.</td> <td>High Pressure Filter</td> <td>Steering system</td> <td>S80-01-05</td> <td>04</td> </tr> <tr> <td>s.</td> <td>High Pressure Filter Cartridge</td> <td></td> <td>S80-01-18</td> <td>04</td> </tr> <tr> <td>t.</td> <td>Air filter</td> <td></td> <td>S80-01-20</td> <td>04</td> </tr> </tbody> </table>	S. No	Item Description	System	Part No	Qty	a.	Air filter Assembly	Main DG	3090042	03	b.	Lub oil filter Element		383100	06	c.	Lub oil filter 2		3889390	03	d.	Fuel filter		3315843	06	e.	Oil water separator		CCFJ400J-KC-08-01	06	f.	Air filter	EDG	3103262	02	g.	Lub oil filter		3401544	02	h.	Water filter		4058965	02	i.	Fuel filter		3315847	02	j.	Oil water separator		2020PM-OR	02	k.	Fuel filter	Main Engine	6374649	08	l.	Lub oil filter centrifugal		80-421-01527-100	08	m.	Lubrication oil filter	Gearbox	SPL80X	04	n.	Working Oil Filter		41-43	04	o.	Suction filter	CPP	HCLJ017-01	02	p.	Return Oil Filter		HCLJ017-13	04	q.	Air Filter		HCLJ017-15	04	r.	High Pressure Filter	Steering system	S80-01-05	04	s.	High Pressure Filter Cartridge		S80-01-18	04	t.	Air filter		S80-01-20	04
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k.	Fuel filter	Main Engine	6374649	08																																																																																																							
l.	Lub oil filter centrifugal		80-421-01527-100	08																																																																																																							
m.	Lubrication oil filter	Gearbox	SPL80X	04																																																																																																							
n.	Working Oil Filter		41-43	04																																																																																																							
o.	Suction filter	CPP	HCLJ017-01	02																																																																																																							
p.	Return Oil Filter		HCLJ017-13	04																																																																																																							
q.	Air Filter		HCLJ017-15	04																																																																																																							
r.	High Pressure Filter	Steering system	S80-01-05	04																																																																																																							
s.	High Pressure Filter Cartridge		S80-01-18	04																																																																																																							
t.	Air filter		S80-01-20	04																																																																																																							
10.	Technical Specs	As per TPI and originally installed filters																																																																																																									
11.	Eligibilities	a. Have experience to work for ships (preferably PMSA																																																																																																									

		ships)
		b. Company must be certified with HQ PMSA
		c. Company must be Income and Sales tax
12.	EDC	30 days after award of contract
13.	Warranty	02 year shelf life and 03 months running in system
14.	Acceptance Criteria (if any)	Upon scrutiny of items and provided documents production certificate by OEM. Specifications and part number should be same as mentioned. Satisfactory Trials at sea for 01 months
15.	Any other relevant information	Contact Ship staff (Cell # 0321-3000503)



**IT NO : 33/20/2024-25****IT SPECIFICATIONS FOR DEFECT RECTIFICATION/ PROCUREMENT OF DISPLAY CONTROL CIRCUIT BOARD (PCB) OF 30MM NAVAL GUN – PMSS ZHOB**

1.	Parent equipment	CS/AN3 type 30mm Single-Barrel Naval Gun			
2.	Sub-equipment	Display Control Console			
3.	Assembly Component	Display Control Circuit Board (NSN 1005PV1020249)			
4.	Make	China	5.	Model	12-04/QA026
6.	Quantity	01	7.	Justification i.e PMS/ Failure/ FWT	Failure
8.	Work Required/ Defect	Display control Circuit Board to be repaired/ installed new if not repairable.			
9.	Detailed Scope of Work	Detailed work scope required on Display Circuit Board of 30mm Gun System. a. Installation of PCB followed by HATs and SATs are to be conducted b. Complete system operationalization to be done and growth work to be borne by the Firm. c. Firm should visit onboard to analyze scope work onboard			
10.	Technical Specs	As per OEM Manual/ Specs			
11.	Eligibility Criteria	a. OEM certified firm b. Having expertise in 30MM GUN System c. Having expertise to repair complex/ multi layered PCBs.			
12.	EDC	15 x Days			
13.	Warranty	01 Year			
14.	Acceptance Criteria	a. Satisfactory HATs followed by SATs b. Successful system boot up c. Successful training and elevation of the Gun d. Correct availability of Gun Data on the display e. Conduct of firing at sea (SATs)			
15.	Any other information	Any damage during work is responsibility of contractor/ firm			

**IT NO : 33/21/2024-25****IT SPECIFICATIONS - REPAIR/ MAINTENANCE OF 02 X TURBO CHARGERS OF FRB-152 – WESTERN WING**

1.	Ship's Name	FRB-152			
2.	Parent Equipment	C-9 Caterpillar Main engines			
3.	Sub Equipment	Air intake system			
4.	Assembly Component	02 x Turbo chargers (part number 262-7609 GP part of 267-8925 GP)			
5.	Make	Caterpillar			
6.	Model	C-9			
7.	Quantity	02 in number			
8.	Justification i.e PMS/ Failure/ FWT etc	Performance of 02 x Turbo chargers degraded due continuous operation			
9.	Work Required/ Defect	<p>(1) Main engines speed trimming being observed and engines are not exceeding beyond 1000 ERPMs.</p> <p>(2) Heavy smoke being observed at said RPMS.</p> <p>(3) Turbo chargers have been dismantled and oil leakage/traces observed on compressor, turbine and inlet side of after cooler due suspected shaft seal of turbo charger leaky.</p>			
10.	Detail Scope of Work	<p>Repair maintenance of 02 x turbo chargers including following works:</p> <p>(1) Cleaning and inspection of housing.</p> <p>(2) Replacement of service kit including degraded/ defective parts i.e. bush, seals, bearing, compressor, turbine wheel etc.</p> <p>(3) Alignment/ machining of turbine shaft.</p>			
11.	Technical Spec	<b>S No</b>	<b>Part No</b>	<b>Description</b>	<b>Qty</b>
		(1)	7W-7778	CLAMP AS	01
		(2)	7M-9916	LOCKNUT	01
		(3)	127-0839	CLAMP AS (TURBINE)	01
		(4)	271-9416	CARTRIDGE GP- TURBO CHARGER	01
		(5)	3S-8313	PLUG CUP	02
		(6)	4K-0149	PLUG CUP	01
		(7)	6V-1902	SEAL O RING	01
		(8)	242-3360	HOSE	01
		(9)	7M-7273	GASKET	01
12.	Eligibilities	Any well-known national/ international firm having good experience for repair/ maintenance of Caterpillar engines and associated auxiliaries/ parts.			
13.	EDC	15 days			
14.	Warranty	One year after installation onboard.			
15.	Acceptance Criteria	<p>Physical inspection of under mentioned parts by end user after installation onboard and trials upto maximum engine RPMs for satisfactory performance:</p> <p>(1) Compressor and compressor housing.</p> <p>(2) Turbine wheel and turbine housing.</p> <p>(3) Presence of engine oil traces on shaft, turbine or inlet side of after cooler.</p>			
16.	Any other relevant information	<p>(1) Installation/Replacement of Marine Grade spares/ accessories are to be ensured by contracted firm.</p> <p>(2) Dismantling and re-installation of in-way accessories is responsibility of the firm.</p> <p>(3) Any breakage/material failure during dismantling/installation will be lies with the firm.</p>			

**IT NO : 33/22/2024-25****IT SPECIFICATIONS – REPAIR OF STBD MAIN ENGINE LUBE OIL PUMP**

1.	Parent Equipment	Stbd Main Engine	
2.	Sub Equipment	Lube oil pump	
3.	Assembly Component	Mechanical seal	
4.	Make	CYM Lubricating & Fuel oil Pump.Chongqing Yucjin Machiner Ltd	
5.	Model	201706001	
6.	Quantity	01	
7.	Justification	FWT	
8.	Work Required/ Defect	Replacement and repair of main engine lube oil pump	
9.	Detailed scope of work	<ul style="list-style-type: none"> <li>a. Dismantling of defective pump including removal of in-way accessories/ ancillary pipelines</li> <li>b. Repair of defective pump.</li> <li>c. Installation of defective pump and Repair defective pump and accessories/ ancillary pipelines</li> <li>d. Inspection, Pressure testing and Satisfactory trials at harbor and sea</li> </ul>	
10.	Technical specs	Mechanical Seal	As per sample
		Working Pressure	4.0-5.5 bar
		Testing pressure	8 bar
11.	Eligibility Criteria	<ul style="list-style-type: none"> <li>a. Have experience to work for ships (preferably PMSA ships)</li> <li>b. Company must be certified with HQ PMSA</li> <li>c. Company must be Income and Sales tax registered</li> <li>d. Company must have good experience of repairing of mechanical parts</li> </ul>	
12.	EDC/ EDD	01 x week	
13.	Warranty	01 x year	
14.	Acceptance Criteria	<ul style="list-style-type: none"> <li>(i). Working pressure of pump should not be less than 4.0 - 5.5 bar.</li> <li>(ii). Pump shall be tested at 8.0 bar pressure before installation on main engine.</li> <li>(iii). Item will be accepted after onboard inspection and satisfactory trials for 2 weeks at sea.</li> </ul>	
15.	Any Other Relevant Information	SS contact MEO (0321-3000503)	

**IT NO : 33/23/2024-25****IT SPECIFICATIONS – REPAIR/ MAINTENANCE OF OIC OFFICE, CONFERENCE ROOM  
AND SAILOR DINING HALL FURNITURE AT PMSA BASE RISHAD**

S No	Specifications	Remarks																					
1.	System	Repair/ Maintenance work																					
2.	Quantity	<table border="1"><thead><tr><th>S No</th><th>Description</th><th>Qty</th></tr></thead><tbody><tr><td>1.</td><td>OIC office chair and table with glass</td><td>01 Set</td></tr><tr><td>2.</td><td>Rostrum Conference Room</td><td>01</td></tr><tr><td>3.</td><td>Conference Room Table</td><td>03</td></tr><tr><td>4.</td><td>Conference Room Chair</td><td>20</td></tr><tr><td>5.</td><td>Dining hall Table</td><td>03</td></tr><tr><td>6.</td><td>Dining hall Chair</td><td>50</td></tr></tbody></table>	S No	Description	Qty	1.	OIC office chair and table with glass	01 Set	2.	Rostrum Conference Room	01	3.	Conference Room Table	03	4.	Conference Room Chair	20	5.	Dining hall Table	03	6.	Dining hall Chair	50
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3.	Conference Room Table	03																					
4.	Conference Room Chair	20																					
5.	Dining hall Table	03																					
6.	Dining hall Chair	50																					
3.	Technical Specification ( If any)	N/A																					
4.	Detailed Scope of Work	<p>a. Repair/ Maintenance of OIC office Chairs and table set.</p> <p>b. Repair/ Maintenance of Rostrum of Conference room</p> <p>c. Sailor Dining Hall table broken and to be replace.</p> <p>d. Sailor Dining Hall chairs broken and to be replace.</p>																					
5.	Eligibilities	N/A																					
6.	EDC	03 Weeks																					
7.	Warranty	06 Months																					
8.	Acceptance criteria ( if any)	Upon Inspection by ships staff of PMSA Base Rishad																					
9.	Any other relevant information	Work is to be required at PMSA Base Rishad Pasni.  POC: Lt Shahid Noor PN Contact No 0334-5329101																					

Description									
1. Parent Equipment	Water/ Gas Tight								
2. Sub Equipment	Water/ Gas Tight Doors								
3. Assembly Component	Rubber seals ,Handles ,Levers, Clips and Mechanical Linkage								
4. Origin	China								
5. Make	CSTC								
6. Quantity/Item Details	Doors rubber seals Handles ,Levers and Mechanical linkage (locking mechanism)								
7. Work Required	Overhauling of 04 x Doors and 02 x Hatches								
8. Justification	Deteriorated condition of metallic sheets, rollers and locking mechanism due to fair wear and tear.								
9. Scope of Work	<table border="1"><thead><tr><th>Door</th><th>Description Of Work</th></tr></thead><tbody><tr><td>02 x Water Tight doors (CO<sub>2</sub> Door Fox'L Door)</td><td>a. Repair /renewal of water tight doors rubbers seals b. Corroded /damage bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts c. Deteriorated handles /linkages to be replaced with newly fabricated SS 316L handles and linkages d. All handles of WT are needs to be Overhauled and fitted back. e. Application of internal painting and suitable coating for perversion of corrosion in door.</td></tr><tr><td>02 x Hatches</td><td>a. Repair /renewal of water tight doors rubbers seals b. Corroded /damage bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts c. Renewal of deteriorated clips with SS 316L clips and linkages d. All handles of WT are needs to be Overhauled and fitted back. e. Application of internal painting and suitable coating for perversion of corrosion in door.</td></tr><tr><td>02 x Bridge Sliding doors</td><td>a. Repair/ renewal of water tight rubber seals. b. Renewal/ fabrication of doors c. Overhauling of sliding and locking mechanism d. Corroded/damaged bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts</td></tr></tbody></table>	Door	Description Of Work	02 x Water Tight doors (CO <sub>2</sub> Door Fox'L Door)	a. Repair /renewal of water tight doors rubbers seals b. Corroded /damage bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts c. Deteriorated handles /linkages to be replaced with newly fabricated SS 316L handles and linkages d. All handles of WT are needs to be Overhauled and fitted back. e. Application of internal painting and suitable coating for perversion of corrosion in door.	02 x Hatches	a. Repair /renewal of water tight doors rubbers seals b. Corroded /damage bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts c. Renewal of deteriorated clips with SS 316L clips and linkages d. All handles of WT are needs to be Overhauled and fitted back. e. Application of internal painting and suitable coating for perversion of corrosion in door.	02 x Bridge Sliding doors	a. Repair/ renewal of water tight rubber seals. b. Renewal/ fabrication of doors c. Overhauling of sliding and locking mechanism d. Corroded/damaged bolts and nuts to be replaced with new stainless steel (316L) bolts and nuts
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10. Technical Specification	Sizes to be measured during onboard visit								
11. Eligibility criteria	Reputable, qualified, registered and security wise clear firm								
12. EDC	10 days								
13. Warranty	01 Year								
14. Acceptance criteria	a. Satisfactory and smooth operation of doors during opening and closing b. Smooth operation of handles and locking mechanism c. Satisfactory chalk test d. Easy sliding moment of bridge sliding doors and proper locking mechanism								
15. Any other information	Nil								

**Note: 100% Payment after completion by CNA**

**Director General**  
Pakistan Maritime Security Agency  
Plot No 34-A,  
Dockyard Road  
KARACHI  
Telephone 021-48509194  
Fax 99214625  
E-Mail [dpcc@pmsa.gov.pk](mailto:dpcc@pmsa.gov.pk)

## **INVITATION TO TENDER GENERAL INSTRUCTIONS**

### **1. CONDITIONS GOVERNING CONTRACT:**

All Procurement / Repairs / Maintenance Contract, Local Purchase Order (LPO) and work ordered made as a result of this IT shall mean the agreement entered into between the parties that is buyer and the supplier will be in accordance with the PPRA rules 2004 or any amendment issued from time to time. Therefore all open tender inquiry will be uploaded on PPRA Website and publish on print media as the case may be.

### **2. SUBMISSION OF TENDER:**

Firms shall submit their offers in two separate envelopes clearly marked as "**Commercial Offer**" and "**Technical Offer**" for open tender. Both envelopes shall be properly sealed bearing the signature of the bidder. Thereafter both these envelopes shall be placed in one bigger envelope. This envelope should bear the address of the D (P&CC).

a. **TECHNICAL OFFER:** Should contain all relevant details and specifications as per the IT specifications. Literature / Brochure or any other relevant technical details may also be included in it. Technical offer should not contain the price. Indication of price in technical offer may render it null and void. The word "Technical Offer" should be clearly mentioned along with the tender No and date on the envelope containing the technical offer.

b. **COMMERCIAL OFFER:** The price be quoted in figures as well as in words along with essential Literature / Brochures. The word "Commercial Offer", tender number should be clearly mentioned on the envelope. Taxes, duties, freight / transportation, insurance charges etc if any are to be indicated separately.

c. **BID SECURITY:** All registered firms are exempted from provision of bid security upto Rs.500,000/- and unregistered firms have to provide bid security equals to 02% for bids amounting upto Rs.500,000/- in the shape of Pay Order in favor of "IT Sale Account DG PMSA". Furthermore, firms are required to deposit bid security not exceeding 05% of the bid price for bid value amounting more than Rs.500,000/-. Moreover, following guidelines will be followed:

- i. 2% from registered firms.
- ii. 5% from un-registered firms.

d. Total price of the items quoted against the tender is to be clearly mentioned. It should also contain a **pay order 2% or 5% in the shape of pay order of the offered value** as earnest money. Cross cheque or cash is not acceptable in this case. The offer received without earnest money will be rejected.

e. **SPECIAL INSTRUCTIONS:** Tender documents and its conditions may please be read point to point and understood properly before quoting. All tender conditions should be responded properly. In case of any deviation due to non-acceptance of tender conditions, the same should be highlighted along with changed offer / conditions. Tender may however be liable to be rejected.

### **PREPARATION OF QUOTATION**

Please prepare quotation in this format In case of GST @ 18% or SST @ 15%:

<u>S.NO</u>	<u>Description</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Total</u>	<u>GST @ 18% or SST @ 15%.</u>	<u>T/Price</u>

Please prepare quotation in this format In case of without GST or SST:

<u>S.NO</u>	<u>Description</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Total</u>	<u>T/Price</u>

**Without this format quotation will not be accepted.**

**3. DATE AND TIME FOR RECEIPT OF TENDER:**

Tender must be dropped in tender Box placed at main gate. HQ PMSA will not accept any excuse of delay occurring due to whatsoever reason. Tender received after the time indicated in IT will not be entertained. The tender opening time, however, fall on next working day in case of closed / forced holiday or any other unforeseen event. Only authorized representatives of firm will be allowed to attend tender opening. **The tender received through Fax, E-Mail will not be acceptable.**

**4. TENDER OPENING:**

Technical offer will be opened as per scope of work on the date and time mentioned in the tender. Commercial offer shall be retained with technical officer. It will be opened at a later stage. All technical offers will be scrutinized by a Technical Scrutiny Report (TSR) committee nominated by HQ PMSA. The offers which are not as per the IT specification will be rejected. The firms recommended by TSR Committee will be allowed to attend the commercial opening for which date and time will be intimated separately.

**5. VALIDITY OFFER:**

The validity period of quotations must be indicated and should invariably be for 90 days extendable to 30 days from the date of opening of Technical offer.

**6. QUOTING OF RATES:**

Unit price of the item, GST/ SST or any other Govt tax and Total price all these should be indicated separately in Pak Rupees in a very clear manner as follows:

<b>S No</b>	<b>Description</b>	<b>Qty</b>	<b>U/Price</b>	<b>GST/SST/Taxes</b>	<b>Total</b>
	<b>Price</b>				

**7. ATL/ GST/ SST/ INCOME TAX NUMBER:**

Only registered suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to supply goods/ services to Government department. GST/SST and income tax number be clearly indicated on the quotations and all other relevant documents.

**8. RETURN OF EARNEST MONEY:**

- Earnest money to the unsuccessful bidders will be returned **one week** after commercial opening date.
- Earnest money to the firm who has won the purchase order/ work order & contract will be returned on submission of Bank Guarantee as per the contract.

**9. TENDER FEE:**

Each technical offer must be accompanied with Cash of **Rs.1,000/-** nonrefundable as tender fee

(In favour of IT Sale Account DG PMSA) (**Separate Quotations required for each IT Specification**).

**10. INSPECTION AUTHORITY:**

Joint inspection of stores provided and work done will be carried out by committee appointed by HQ PMSA or as per the contract.

**11. CONDITION OF STORES:**

Spares, Stores, items and work done will be accepted on Warranty / Guarantee of the firm on Form DPL-15.

**12. DOCUMENTS REQUIRED:**

Following documents are required to be submitted alongwith the quotes where applicable:

- a. OEM / Authorized Dealer/Agent Certificate alongwith OEM Dealership Evidence as applicable.
- b. The Supplier is to provide OEM conformance certificate. In case of Fax or e-mail hard copy of conformance certificate must follow. On receipt of this PMSA HQ may approach the OEM to confirm the veracity of the documents submitted. Companies / firms rendering false OEM conformance certificate will be penalized as per rules in vogue.

**13. SECURITY DEPOSIT / BANK GUARANTEE:**

To ensure timely and correct supply of stores the firm will furnish an unconditional Bank Guarantee (BG) from a schedule bank for an amount of **10%** of the contract value (excluding taxes, duties / freight handling charges on a stamp paper of the value of (Rs.100/00) as per prescribed format in the shape of Bank Guarantee. Format of Bank Guarantee is at Annex „B“. Furthermore, it is imperative to mention that deposit of PBG for HMI and Core Exchange cases will be equal to the total value of engine.

**14. CURRENT BANK STATEMENT:**

For all contracts of Rs 1,000,000/- or more the firm is required to submit current bank statement of the firm.

**15. INTEGRITY PACT:**

Procurement exceeding Rs 1.00 M shall be subject to an integrity pact, between the Buyer and the Suppliers or Contractors.

**16. CORRESPONDENCE:**

All correspondence will be addressed to the Buyer. Correspondence with regard to payment or issue of delivery receipt may be addressed to D (P & CC) PMSA Karachi.

**17. PRE SHIPMENT INSPECTION:**

PMSA may send a team of Officers for the inspection of Major Equipment and Machinery items at OEM premises for inspection before dispatch if required at the Supplier's cost and arrangement.

**18. AMENDMENT IN CONTRACT:**

Contract may be amended / modified to include fresh clause modify the existing clauses with the mutual agreements by the Supplier and the Buyer such modifications shall form an integral part of the contract.

**19. DISCREPANCY:**

The Buyer will render a discrepancy report to all concerned within 45 days after receipt of stores for discrepancies found in the consignment. The quantities found short are to be made good by the Supplier free of cost.

**20. PRICE VARIATION:**

Price offered against IT are to be firm and final.

**21. LIQUIDATED DAMAGES (LD):**

Liquidated Damages upto 2% per month are liable to be imposed on the Suppliers by the Buyer in accordance with PPRA rules, if the stores supplied after the expiry of the delivery date without any valid reason. Total value of the LD shall not exceed 10% of the contract value.

**22. RISK PURCHASE:**

In the event of failure on the part of Supplier to comply with the contractual obligations the contract will be cancelled at the Risk and Expense of the Supplier in accordance with PPRA rules.

**23. PENALTY:**

In case of wrong supply of the item by the Supplier, a penalty of 10% of the contract value may be imposed by this HQ PMSA apart from any other penalties.



**24. ALL RIGHTS RESERVED:**

HQ PMSA may reject all bids or proposals at any time prior to the acceptance of a bid or proposal as per PPRA Rule 33(I).

**25. PAYMENT:**

The payment will be released through Controller of Naval Accounts (CNA) Karachi in Pak Rupees after completion of delivery / work.

**26. PARTIAL ORDER.**

All participating firms are to comply acceptance of partial order. Partial supply as per lowest rates will be awarded to the lowest bidder.

**27. DISQUALIFICATION: Offers are liable to be rejected if:-**

- a. Received after time and date specified in the IT.
- b. Offers are found conditional or incomplete in any respect.
- c. There is any deviation from the General / Special / Technical Instructions contained in this tender.
- d. Taxes and duties, Freight, Transportation and Insurance charges not indicated separately as per required price breakdown mentioned above.
- e. Pay Order with Commercial Offer and Cash with Technical Offer is not received.
- f. Multiple rates quoted against one item.
- g. Manufacture's relevant Brochures and technical details on major equipment, assemblies are not attached in support of specification.
- h. Offers (Technical / Commercial) are containing amendments / corrections / overwriting etc.
- j. National Tax No (NTN) and GST/SST No are not indicated on technical and commercial offer.
- k. If validity of offer is not quoted as required in IT or made subject to confirmation late.