



राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान  
NATIONAL INSTITUTE OF  
OCEAN TECHNOLOGY

संविदा आमंत्रण सूचना (नि.आ.सू.)  
**NOTICE INVITING TENDER (NIT)**

फॉर्म संख्या:  
Form No. NIOT/S&P/NIT

**GeM-Tender Schedule**

निविदा संख्या Tender No.	<b>NIOT/S&amp;P/DSM/25749/2024-25</b>	
कोजारी Issued To	<b>Refurbishment of Electrical and Instrumentation Containers</b>	
निविदाप्रणाली/Tender Mode	<b>GeM – BoQ Bid</b>	
बोली का प्रकार एवं निविदा प्रस्तुतिकरण Bidding Type & Tender submission	Single Part Tender comprising of Technical Bid and Price Bid should be submitted electronically through GeM portal <a href="https://gem.gov.in">https://gem.gov.in</a>	
निविदा प्रलेख उपलब्धता स्थान Tender Documents available place	Bidders may download the help documents. Helpdesk number : Number: 1800-419-3436 E-Mail: <a href="mailto:helpdesk-gem@gov.in">helpdesk-gem@gov.in</a> For any issues / clarifications relating to the tender(s) published, kindly contact the respective Tender Inviting Authority.	
अपने प्रश्न ई मेल आईडी पर भेजें Send your queries to the email IDs	निविदा के अंतिम चरण तक Upto Tender finalisations	<a href="mailto:gopalakrishnaa.niot@gov.in">gopalakrishnaa.niot@gov.in/</a> <a href="mailto:procure@noit.res.in">procure@noit.res.in</a>

राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान **NATIONAL INSTITUTE OF OCEAN TECHNOLOGY**

वेलचरी ताम्बरम मेन रोड **VELACHERY TAMBARAM MAIN ROAD**

नारायण पुरम, चेन्नै **600 100 NARAYANPURAM, CHENNAI 600 100**

रा.स.प्रौ.सं. वेबसाइट/NIOT Website : <https://niot.res.in/conmgmt/signin.php>

**Commercial Terms Compliance sheet (The format should not be altered)**

S. No.	Particulars	Yes	No	offer Page Ref
1	Whether every page of the tender document is signed for acceptance of tender and uploaded along with the offer?			
2	Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated)			
3	Whether accepted to submit the order acceptance within 7 days from the date of order?			
4	Whether Quote is valid for <b>90 days</b> from the due date of tender or time specified in the tender document whichever is later?			
5	Whether <b>payment terms</b> of the tender is complied with?			
6	Whether the bidder satisfies the Pre- qualification criteria			
	a. a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
	b. The supplier/ bidder should have minimum 3 years of experience in repairs / manufacture of marine freight or customised bunk house containers. Supporting documents in proof experience should be enclosed with the bid. Bids without supporting documents with regards to the experience / supply of containers shall be summarily rejected.			
	c. The supplier/ bidder shall agree to undertake the required work at NIOT campus, Pallikaranai, Chennai. If necessary manpower and equipments, raw materials required for the work.			
7	<b>a. The Goods / items quoted are manufactured in India and not imported from any country.</b>			
8	Whether self certification form is enclosed (For Class I & Class II supplier only)?			
9	Whether price is <b>FOR /DAP, NIOT Chennai?</b>			
10	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
11	Whether the <b>authorization letter</b> exclusively for this tender, from the original manufacturer is enclosed?			
12	a) Whether <b>warranty</b> period accepted as per tender?			
	b) Whether submission of <b>warranty</b> certificate in the prescribed format is acceptable?			
13	Whether the <b>work completion period</b> is clearly indicated, and is as per tender?			
14	Whether the cost of installation / inspection / testing explicitly mentioned in the quote?			
15	Whether Past track record of quality and service is enclosed?			
16	Whether list of deliverables attached and comply as per tender?			
17	Whether liquidated damage clause is acceptable in case of delayed supply?			
18	Whether the tender is fully complying with tender specification/Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation?			
19	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
20	Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.			
21	Whether HSN code of the product has been indicated?			
22	<b>Whether your firm is registered under MSME/ NSIC/DIC/UAM? If yes enclose copy of registration</b>			

**PRICE BID FORMAT**

<b>S. No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit rate</b>	<b>Amount</b>
1.	Repair of 500kVA Motor control Room container with supply and installation of 1.5 ton window AC – 20 ft	01	No.		
2.	Repair of MV – Drives containers – 20 ft	02	Nos.		
3.	Repair of 30kVA transformer container - 8ft	01	No.		
4.	Repair of Bunkhouse container – 30 ft	01	No.		
5.	Repair of Electronic control console container – 20ft	01	No.		
6.	Repair of storage container – 20ft	01	No.		

<b>Total Amount</b>	
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(Amount in words. \_\_\_\_\_)

**Note:**

# ***The goods items quoted are manufactured in India and not imported from any country.***

\* **For Supply**

The GST as applicable will be paid.

**For Service**

GST @ 18% is applicable.

NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor.

TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided if the value exceeds Rs. 2.5 lakhs.

1. The copy of the GST registration certificate to be attached.
2. The duly filled technical and commercial compliance sheets should be submitted along with quotation/offer.

**We agree to all applicable terms and conditions listed in the tender document.**

**Signature with Seal**

## Technical Specification for Container Refurbishment

Repair of puff insulated containers (total 7 nos of containers) as per the details provided. The containers are specially built for NIOT requirements to accommodate Electronics control console, electrical control panels, transformers and Drives etc. The containers are supplied from different manufacturers at different times and require certain repairs to be undertaken at different parts. The repair works shall be undertaken at NIOT campus preferably without disturbing the installed equipments/panels under supervision of NIOT personnel. **The bidder/ contractor shall visit NIOT if required to estimate the work on container before submission of the bid.**

The details of the work to be undertaken for each of the container are provided in the scope of work given below.

S. No.	PRE-QUALIFICATION	Yes/No
1.	The supplier/ bidder should have minimum 3 years of experience in repairs / manufacture of marine freight or customised bunk house containers. Supporting documents in proof experience should be enclosed with the bid. Bids without supporting documents with regards to the experience / supply of containers shall be summarily rejected.	
2.	The supplier/ bidder shall agree to undertake the required work at NIOT campus, Pallikaranai, Chennai. If necessary manpower and equipments, raw materials required for the work.	

### Scope of work:

#### 1. 20ft Container (Motor control room) – 1 no:

Details of the container:

Description of container	Size (l x b x h) ft	Make	Qty	Special conditions
500kVA Motor control Room	20 x 8 x 8.6	Transafe	1	Houses: i. Solcon drive ii. 500 kVA transformer iii. ACB panel

- The entire top portion (roof) of the container shall be cleaned, chipped free from rust and paint, covered / welded with a new corrugated CRCA steel sheet of gauge **14 SWG (20 x 8 ft)** matching with the existing sheet profile. Since the container is provided with glass wool insulation throughout, care shall be taken during welding operation on fire hazard and damage to interior panels / electrical systems within the container. The new laid corrugated CRCA sheet shall be painted with two coats of epoxy primer and one coat paint (RAL 7032)
- The floor of the container to be provided with Marine grade plywood of 25mm thickness. Panel mounting frame (800mm wide) with space for cable lay is provided at the centre along the length of the container and has no wooden floorings. Two portions of the floorings are severely damaged and needs to be replaced with new sections. The damaged portions identified are of size **(900mm x**

**5900mm) and (800mm x 2500mm)** front and rear side of the panels. The new plywood shall be of thickness **25mm**, marine grade complying to IS 710 standards.

- The entire floor area of the container (where wooden plywood is provided) shall be covered / overlaid with Vinyl sheet of **1.5mm** thickness. Vinyl sheet used shall be of branded make and reputed and should have minimum of five years of life time without wear. The colour and design of the Vinyl sheet will be finalised by NIOT during the course of work.
- The container is air-conditioned and equipped with two windows for ventilation and lighting. The two Aluminium windows in the container are damaged and need to be replaced. The frame sizes of the windows are **1120mm x 940mm** and window is with plain glass (**3mm thick**) with sliding type shutter. The supplier may take actual measurements ensuring the squareness and window frame shall be sealed with PU/ rubber sealant to prevent water ingress.
- The container is provided with two doors, a Main door for the equipment entry (double door on the side) and wicket door for the personnel entry on the side. Both the doors are provided with rubber gaskets to prevent water ingress. The rubber gaskets are old and worn-out due to usage and age. Both door gaskets shall be replaced of suitable size and length. Total running length is found to be **20m**. The aluminium "L" angle for the wicket door also needs to be replaced.
- A new ladder of size 2880 mm (H) x 300 mm (W) MS square tube of 25 x 25 x 3.2mm size with primer and painting to be provided at the left side of the container (at Window AC side)
- The existing non-functional window AC to be removed and a new **1.5 ton window AC (non-inverter type, make: Daikin, Voltas, LG, Blue star, O General)** should be procured and installed and commissioned by the supplier. The unit shall have remote operation with LED digital display for temperature. Necessary wiring should be for the AC unit is supplier's scope. AC should have warranty of 1 year.
- Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.



Fig1. Damage on window



Fig 2. Damaged floor



Fig 3. Container roof damage

**2. 20ft container (MV- Drives) – 2 Nos:**

Description of container	Size (l x b x h) ft	Make	Qty	Special conditions
250 kVA and 500kVA MVVFD container	20 x 8 x 12	Chemin controls	2	Houses MV drives Insulation: Rockwool panel Top open type: Air conditioned Customised panel mounting rails

- The supplier shall repair the floor by replacement of wooden floorings. Size of damaged portion shall be (2500 mm 1100mm) and (1500mm x 1300mm) respectively. The damaged wooden planks shall be removed and replaced with marine grade plywood of thickness 25mm complying to IS 710 standards
- The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colour of the Vinyl sheet shall match with the existing colour/ design in the container.
- Repair and replacement of rubber gasket for the top open shutter (size 20ft x 8 ft) – 2 nos. for arresting water leakage.
- Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.



Fig 4. MVVFD container

### 3. 8ft container (30kVA transformer panel container) – 1no:

Description of container	Size (l x b x h) ft	Make/	Qty	Special conditions
Electrical control container	8 x 8 x 8	Chemin controls	1	Houses : RCU of MVVFD 30kVA transformer with control Air conditioned Rockwool paneling

- Repair of wooden floorings as per sizes given below. The damaged portions shall be replaced with new marine grade wooden plywood planks of thickness 25mm complying to IS 710 standards.
  - Size :2100 x 400 mm
  - Size :1100 x1000mm
  - Size :1000 x 570mm
  - Size :770 x 300mm
  - Size :1400 x 175mm
- The 1.5mm thickness of vinyl sheet should be provided on the above marine grade plywood with good adhesive materials which should be last long for minimum 5years.The colours of the sheet will be finalised by the NIOT representative after PO is finalized .
- The main door entire gasket to be replaced with the same profile rubber gasket, length is 6m. The door and gasket should be intact and there should not be any water entry/leakage into the container once completed.
- Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.





Fig 5. Control container

**4. Bunkhouse container, Size :30 ft (L) x 8 ft (W) x 8 ft(H)**

Description of container	Size (l x b x h) ft	Make	Special Condition
Bunkhouse container	<b>30 ft (L) x 8 ft (W) x 8 ft(H)</b>	Hindustan vacuum glass Ltd	Air-conditioned container

- All three existing windows (two in front and one in Rear) keel needs to be removed and repaired
- The supplier shall replace the existing wooden floor with marine grade plywood of thickness 19mm complying to IS 710 standards.
- The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colour the Vinyl sheet shall match with the existing colour/ design in the container.
- The entire container including the top to be painted with two coats of epoxy primer and two coat paint. Primers should be inorganic zinc/ethyl/silicate based or equivalent. Paint should have good adhesion, wear resistance and durability, The top shed/cover to be removed and all the damaged /painted/rusted area to be cleared properly prior to painting afresh. After painting, the removed top shed/cover to be fixed back properly.
- "National Institute of Ocean Technology and Deep-Sea Mining "to be written and NIOT logo to be made on one wall of the container.
- Replacement of good quality rubber gasket for the main door for arresting water leakage.



Fig 6: Bunkhouse container

### 5. Control console- 20ft (L) x 8ft (W) x10ft (H)

Description of container	Size (l x b x h) ft	Make/	Special Condition
Control console	20 ft (L) x 8 ft (W) x 10 ft(H)	Chemin	Air-conditioned container with control panel and wiring done

- The existing three shutters (two in front and one in Rear) covers need to be replaced with new sheets without affecting the original aesthetic of the container and fixing holders need to be strengthened. The dimensions of the shutter is as follows. *890mm (W) x 1170 mm (H) x 3 mm*, and Mild steel shutter i.e. the curved portion is *940 mm (W) x 250mm(H)*. (Fig 7)
- The stainless tube frame needs to be newly fabricated and installed to the left side of the container at designated place to mount the existing 1.5 ton capacity split AC's outdoor unit. The dimensions are *1080 mm ( W) x 930 mm ( H)x 540mm (D) of 45 x 45 x 2.5.mm SS tube* (Fig 8).
- The damaged (corroded) ladder need to be replaced with new ladder with same size *2880 mm (H) x 300 mm (W) MS square tube of 25 x 25 x 3.2mm* size. (Fig 9)
- The cable entry points of size *215mm x215 mm x2 mm* thick sheets must be punched (PG gland) for standard gland sizes. The top cover/lid must be provided with gasket to avoid any water seepage during rain or flood conditions as a dummy plate. Corroded sheets must be replaced with new punched sheets with boltable points.
- A detachable shed/cover of 1 mm thick need to be provided for the 20ft. long and 8ft. wide container and keeping 1.5 ft extra coverage for all sides, supported by 6 nos. of vertical supports. Minimum 4 longitudinal supporting tubes (*40 x 60 x 4 mm* tube) of length 23 ft. and minimum 6 numbers of lateral structures (*40 x 40 x4 mm* tube) for the support to be given. The structure must be quick clamped type and bolted to the top side of 4 corner hook handling points for easily detachability. The square tube dimensions should not be less than (*40 x 60 mm* tube) for vertical support.
- Suitable welding points shall be identified on the container structure for providing welding supports wherever necessary without damaging the internal thermal insulation and interiors.

- All steel surfaces to be painted and the existing paint should be cleaned. The container to be painted with two coats of epoxy primer and two coat paint. Primers should be inorganic zinc/ethyl/silicate based or equivalent. Paint should have good adhesion, wear resistance and durability. The shot blasted cleaned steel surface should be painted as per the following scheme using spray painting process.
- The total dry film thickness should not be less than 115 microns on the exterior surfaces and 75 microns on the interior surface wherever required. The supplier shall only use good quality and reputed brand primers / paints. The paint colour is RAL 5015
- "National Institute of Ocean Technology and Deep-sea Mining" to be written and NIOT logo to be made on one side wall of the container.



**Fig 7: Windows shutters**



**Fig 8: AC frame**



**Fig 9: Ladder fixing**

#### 6. Storage container - 20ft (L) x 8ft (W) x10ft (H)

Description of container	Size (l x b x h) ft	Make	Qty
Storage container	<b>20 ft (L) x 8 ft (W) x 10 ft(H)</b>	Transafe	1

- The supplier shall replace the existing wooden floor with marine grade plywood of thickness 19 mm complying to IS 710 standards.
- The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colours of the sheet will be finalised by the NIOT at the time of executing the work after PO placement.
- The sun-shade above the door of the container to be repaired
- All steel surfaces to be painted and the existing paint should be cleaned properly. The container to be painted with two coats of epoxy primer and two coat paint primers should be inorganic zinc/ethyl/silicate based or equivalent. Paint should have good adhesion, wear resistance and durability. The supplier shall only use good quality and reputed brand primers / paints. The paint colour is RAL 5015.
- "National Institute of Ocean Technology and Deep-sea Mining" to be written on one side wall of the container



Fig 10: Storage container

**General conditions of work:**

- The contractor shall bring all the necessary tools for the container repair/refurbishment works undertaken at NIOT. Necessary arrangements for power shall be provided by NIOT. The work should be executed during office hours from 9:00AM to 5:30PM.
- The contractor shall adhere to all safety aspects during the period of work at NIOT. Any accidents due to non observance of personnel safety will be at the contractor's liability/ responsibility.
- The supplier shall execute all the works at NIOT campus with their own manpower and machinery.
- The supplier may visit NIOT to assess the damage and work to be undertaken in the container prior submitting the bid. Size provided in the tender specification on the damage are near to close, any minor changes in size of damage shall be accommodated without further cost implications.

## Technical Compliance Sheet:

S. No.	Technical specification	Yes/No	Remarks
1	<p><b><u>Repair of 500kVA motor control container - 1 No.</u></b></p> <ul style="list-style-type: none"><li>• The entire top portion (roof) of the container shall be cleaned, chipped free from rust and paint, covered / welded with a new corrugated CRCA steel sheet of gauge <b>14 SWG (20 x 8ft)</b> matching with the existing sheet profile. Since the container is provided with glass wool insulation throughout, care shall be taken during welding operation on fire hazard and damage to interior panels / electrical systems within the container. The new laid corrugated CRCA sheet shall be painted with two coats of epoxy primer and one coat paint (RAL 7032)</li><li>• The floor of the container to be provided with Marine grade plywood of 25mm thickness. Panel mounting frame (800mm wide) with space for cable lay is provided at the centre along the length of the container and has no wooden floorings. Two portions of the floorings are severely damaged and needs to be replaced with new sections. The damaged portions identified are of size <b>(900mm x 5900mm) and (800mm x 2500mm)</b> front and rear side of the panels. The new plywood shall be of thickness <b>25mm</b>, marine grade complying to IS 710 standards.</li><li>• The entire floor area of the container (where wooden plywood is provided) shall be covered / overlaid with Vinyl sheet of <b>1.5mm</b> thickness. Vinyl sheet used shall be of branded make and repute and should have minimum of five years of life time without wear. The colour and design of the Vinyl sheet will be finalised by NIOT during the course of work.</li><li>• The container is air-conditioned and equipped with two windows for ventilation and lighting. The two Aluminium windows in the container are damaged and need to be replaced. The frame sizes of the windows are <b>1120mm x 940mm</b> and window is with plain glass (<b>3mm thick</b>) with sliding type shutter. The supplier may take actual measurements ensuring the squareness and window frame shall be sealed with PU/ rubber sealant to prevent water ingress.</li><li>• The container is provided with two doors, a Main door for the equipment entry (double door on the side) and wicket door for the personnel entry on the side. Both the doors are provided with rubber gaskets to prevent</li></ul>		

	<p>water ingress. The rubber gaskets are old and worn-out due to usage and age. Both door gaskets shall be replaced of suitable size and length. Total running length is found to be <b>20m</b>. The aluminium “L” angle for the wicket door also needs to be replaced.</p> <ul style="list-style-type: none"> <li>• A new ladder of size 2880 mm (H) x 300 mm (W) MS square tube of 25 x 25 x 3.2mm size with primer and painting to be provided at the left side of the container (at Window AC side).</li> <li>• The existing non-functional window AC to be removed and a new <b>1.5 ton window AC (non-inverter type, make: Daikin, Voltas, LG, Blue star, O General)</b> should be procured, installed and commissioned by the supplier. The unit shall have remote operation with LED digital display for temperature. Necessary wiring should be for the AC unit is supplier’s scope. AC should have warranty of 1 year.</li> <li>• Embossing / painting: “National Institute of Ocean Technology and Deep-sea Mining” and NIOT logo to be painted on one wall of the container.</li> </ul>		
2	<p><b><u>Repair of MV containers (250kVA and 500kVA) – 2 Nos.</u></b></p> <ul style="list-style-type: none"> <li>• The supplier shall repair the floor by replacement of wooden floorings. Size of damaged portion shall be (2500 mm 1100mm) and (1500mm x 1300mm) respectively. The damaged wooden planks shall be removed and replaced with marine grade plywood of thickness 25mm complying to IS 710 standards.</li> <li>• The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colour of the Vinyl sheet shall match with the existing colour/design in the container.</li> <li>• Repair and replacement of rubber gasket for the top open shutter (size 20ft x 8 ft ) – 2 nos. for arresting water leakage.</li> <li>• Embossing / painting: “National Institute of Ocean Technology and Deep-sea Mining” and NIOT logo to be painted on one wall of the container.</li> </ul>		
3	<p><b><u>Repair of 8 feet 30kVA transformer panel container – 1 No.</u></b></p> <ul style="list-style-type: none"> <li>• Repair of wooden floorings as per sizes given below. The damaged portions shall be replaced with new</li> </ul>		

	<p>marine grade wooden plywood planks of thickness 25mm complying with IS 710 standards.</p> <ul style="list-style-type: none"> <li>- Size :2100 x 400 mm</li> <li>- Size :1100 x1000mm</li> <li>- Size :1000 x 570mm</li> <li>- Size :770 x 300mm</li> <li>- Size :1400 x 175mm</li> </ul> <ul style="list-style-type: none"> <li>• The 1.5mm thickness of vinyl sheet should be provided on the above marine grade plywood with good adhesive materials which should be last long for minimum 5 years. The colours of the sheet will be finalised by the NIOT representative after PO is finalized.</li> <li>• The main door entire gasket to be replaced with the same profile rubber gasket, length is 6m. The door and gasket should be intact and there should not be any water entry/leakage into the container once completed.</li> <li>• Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.</li> </ul>		
4	<p><b><u>30 feet Bunk house container – 1 No.</u></b></p> <ul style="list-style-type: none"> <li>• All three existing windows (two in front and one in Rear) keel needs to be removed and repaired</li> <li>• The supplier shall replace the existing wooden floor with marine grade plywood of thickness 19mm complying to IS 710 standards.</li> <li>• The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colour the Vinyl sheet shall match with the existing colour/design in the container.</li> <li>• The entire container including the top to be painted with two coats of epoxy primer and two coat paint. Primers should be inorganic zinc/ethyl/silicate based or equivalent. Paint should have good adhesion, wear resistance and durability, The top shed/cover to be removed and all the damaged /painted/rusted area to be cleared properly prior to painting afresh. After painting, the removed top shed/cover to be fixed back properly.</li> <li>• Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.</li> <li>• Replacement of good quality rubber gasket for the main door for arresting water leakage.</li> </ul>		

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**20 feet control console container -1 No.**

- The existing three shutters (two in front and one in Rear) covers need to be replaced with new sheets without affecting the original aesthetic of the container and fixing holders need to be strengthened. The dimensions of the shutter is as follows. *890mm (W) x 1170 mm (H) x 3 mm*, and Mild steel shutter i.e the curved portion is 940 mm (W) x 250mm(H). (Fig 7)
- The stainless tube frame needs to be newly fabricated and installed to the left side of the container at designated place to mount the existing 1.5 ton capacity split AC's outdoor unit. The dimensions are *1080 mm ( W) x 930 mm ( H)x 540mm (D) of 45 x 45 x 2.5.mm SS tube* (Fig 8).
- The damaged (corroded) ladder need to be replaced with new ladder with same size 2880 mm (H) x 300 mm (W) MS square tube of 25 x 25 x 3.2mm size. (Fig 9)
- The cable entry points of size 215mm x215 mm x2 mm thick sheets must be punched (PG gland) for standard gland sizes. The top cover/lid must be provided with gasket to avoid any water seepage during rain or flood conditions as a dummy plate. Corroded sheets must be replaced with new punched sheets with boltable points.
- A detachable shed/cover of 1 mm thick need to be provided for the 20ft. long and 8ft. wide container and keeping 1.5 ft extra coverage for all sides, supported by 6 nos. of vertical supports. Minimum 4 longitudinal supporting tubes (40 x 60 x 4 mm tube) of length 23 ft. and minimum 6 numbers of lateral structures (40 x 40 x4 mm tube) for the support to be given. The structure must be quick clamped type and bolted to the top side of 4 corner hook handling points for easily detachability. The square tube dimensions should not be less than (40 x 60 mm tube) for vertical support.
- Suitable welding points shall be identified on the container structure for providing welding supports wherever necessary without damaging the internal thermal insulation and interiors.
- All steel surfaces to be painted and the existing paint should be cleaned. The container to be painted with two coats of epoxy primer and two coat paint. Primers should be inorganic zinc/ethyl/silicate based or



	<p>equivalent. Paint should have good adhesion, wear resistance and durability. The shot blasted cleaned steel surface should be painted as per the following scheme using spray painting process.</p> <ul style="list-style-type: none"> <li>• The total dry film thickness should not be less than 115 microns on the exterior surfaces and 75 microns on the interior surface wherever required. The supplier shall only use good quality and reputed brand primers / paints. The paint colour is RAL 5015</li> <li>• Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.</li> </ul>		
<b>6</b>	<p><b><u>20 feet Storage container – 1 No.</u></b></p> <ul style="list-style-type: none"> <li>• The supplier shall replace the existing wooden floor with marine grade plywood of thickness 19 mm complying to IS 710 standards.</li> <li>• The replaced wooden plywood planks shall be covered with Vinyl sheet of thickness 1.5mm. The colours of the sheet will be finalised by the NIOT at the time of executing the work after PO placement.</li> <li>• The sun-shade above the door of the container to be repaired</li> <li>• All steel surfaces to be painted and the existing paint should be cleaned properly. The container to be painted with two coats of epoxy primer and two coat paint primers should be inorganic zinc/ethyl/silicate based or equivalent. Paint should have good adhesion, wear resistance and durability. The supplier shall only use good quality and reputed brand primers / paints. The paint colour is RAL 5015.</li> <li>• Embossing / painting: "National Institute of Ocean Technology and Deep-sea Mining" and NIOT logo to be painted on one wall of the container.</li> </ul>		
<b>7</b>	<p>Warranty for the above refurbished of containers should be 12 months from the date of supply/completion of work.</p>		
<b>8</b>	<ul style="list-style-type: none"> <li>• The contractor shall bring all the necessary tools for the container repair/refurbishment works undertaken at NIOT. Necessary arrangements for power shall be provided by NIOT. The work should be executed during office hours from 9:00AM to 5:30PM.</li> </ul>		

	<ul style="list-style-type: none"> <li>The contractor shall adhere to all safety aspects during the period of work at NIOT. Any accidents due to non observance of personnel safety will be at the contractor's liability/ responsibility.</li> </ul>		
	<ul style="list-style-type: none"> <li>The supplier shall execute all the works at NIOT campus with their own manpower and machinery.</li> </ul>		
	<ul style="list-style-type: none"> <li>The supplier may visit NIOT to assess the damage and work to be undertaken in the container prior submitting the bid. Size provided in the tender specification on the damage are near to close, any minor changes in size of damage shall be accommodated without further cost implications.</li> </ul>		

**Terms and Conditions:**

- 1. Validity:** Quote should be valid for **90 days**.
- 2. Payment:** 100% Payment will be made within **30 Days** after supply, acceptance of the materials. No advance payment shall be made.
- 3. Work Period:** The work should be completed as per the conditions mentioned in the NIT documents **within 4-6 weeks** from the date of receipt of the purchase order.
- 4. Warranty:** All the supplies shall carry warranty for **12 months** from the date of supply and acceptance by NIOT. The format of the warranty certificate shall be furnished to the successful bidder.
- 5. Part Supply:** Not Allowed. All the work should be completed in a single lot within the stipulated time.

**We agree to all terms and conditions as per tender document.**

**Date:**

**Signature of supplier**

**Place:**

**Stamp**