



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/4960939
Dated/दिनांक : 09-07-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	30-07-2024 21:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	30-07-2024 21:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Home Affairs
Department Name/विभाग का नाम	Central Armed Police Forces
Organisation Name/संगठन का नाम	National Disaster Response Force (ndrf)
Office Name/कार्यालय का नाम	Hq Ndrf New Delhi
Total Quantity/कुल मात्रा	414
Item Category/मद केटेगरी	4.5 m Rubberised Inflatable Boat (Rescue boats) (Q3)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	20 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	1991 Lakh (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid

Bid Details/बिड विवरण

Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	Yes
Inspection to be carried out by Buyers own empanelled agency	Yes
Type Of Inspection	Pre Dispatch
Name of the Empanelled Inspection Agency/ Authority	Board of Officers
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	6000000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) /ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	29

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

PAO, NDMA
NDMA Bhawan, Safdurjung Enclave New Delhi through HQ DG NDRF, New Delhi
(Pao)

Splitting/विभाजन

Splitting Applied	Yes
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Maximum No. Of Bidders Amongst Which Order May Be Split	2
Split Criteria based on which quantity will be distributed	L-1 FIRM- 248 NOS L-2 FIRM- 166 NOS

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
5. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

6. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

8. Inspection of Stores by Nominated Inspection Authority / Agency of buyer or their authorized representatives

An independent third party Professional Inspection Body can help buyer in mitigating buyer's risk with pre-dispatch/post-dispatch inspection in order to ensure that equipment, components, solutions and documentation conform to contractual requirements. The buyer has a right to inspect goods in reasonable manner and within reasonable time at any reasonable place as indicated in contract. Inspection Fee/ Charges (as pre-greed between buyer and Inspection Agency) would be borne by the buyer as per their internal arrangement but may be recovered from the seller if the consignment failed to conform to contractual specification and got rejected by the Inspection Officer .If so requested and accepted by the seller , initially seller may pay for inspection charges as applicable and get the same reimbursed from buyer if consignment accepted by the Inspecting Officer . For reimbursement seller has to submit proof of payment to Inspection Agency.

Seller/OEM shall send a notice in writing / e-mail to the Inspecting officer / inspection agency specifying the place of inspection as per contract and the Inspecting officer shall on receipt of such notice notify to the seller the date and time when the stores would be inspected. The seller shall, at his own expenses, afford to the Inspecting officer, all reasonable facilities as may be necessary for satisfying himself that the stores are being and or have been manufactured in accordance with the technical particulars governing the supply. The decision of the purchaser representative /inspection authority regarding acceptance / rejection of consignment shall be final and binding on the seller.

The Seller shall provide, without any extra charge, all materials, tools, labour and assistance of every kind which the Inspecting officer may demand of him for any test, and examination, other than special or independent test, which he shall require to be made on the seller's premises and the seller shall bear and pay all costs attendant thereon.

The seller shall also provide and deliver store / sample from consignment under inspection free of charge at any such place other than his premises as the Inspecting officer may specify for acceptance tests for which seller/OEM does not have the facilities or for special/ independent tests.

In the event of rejection of stores or any part thereof by the Inspecting officer basis testing outside owing to lack of test facility at sellers premises, the seller shall, on demand, pay to the buyer the costs incurred in the inspection and/or test. Cost of test shall be assessed at the rate charged by the Laboratory to private persons for similar work.

Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may like fit and proper as per QAP/governing specification. The seller shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspecting officer.

Unless otherwise provided for in the contract, the quantity of the stores or materials expended in test will be borne by seller.

Inspecting officer is the Final Authority to Certify Performance / accept the consignment. The Inspecting officer's decision as regards the rejection shall be final and binding on the seller.

The seller shall if so required at his own expense shall mark or permit the Inspecting officer to mark all the approved stores with a recognised Government or purchaser's mark.

9. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

4.5 M Rubberised Inflatable Boat (Rescue Boats) (414 pieces)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

* As per GeM Category Specification/जेम केटेगरी विशिष्टि के अनुसार

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
Constructional	Make of OutBoard Motor Engine (OBM); OBM make should have proven indigenous product support throughout India	Mercury, Yamaha, Suzuki, Tohastu
	No of Strokes	4
	No of Cylinders	3
	Power (HP)	30.0 (horsepower)
	Engine Lubrication	Wet Sump with Pressure
	Colour of the Boat	Orange
	2 paddle for Emergency Rowing	Yes
	Boat Shall have Round/ Conical ends for Rapid Planning	Yes (conical)
Generic	Functions performed	The inflatable boat shall perform the following tasks :- (a) Search & Rescue during floods (b) Transport men and material
Certification	Warranty in Years	2.0 (year)

Additional Specification Parameters - 4.5 M Rubberised Inflatable Boat (Rescue Boats) (414 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
All parameter of Boat and OBM required as per NDRF approved Technical Specification uploaded in buyer added bid specific ATC.	All parameter of Boat and OBM required as per NDRF approved Technical Specification uploaded in buyer added bid specific ATC.

* Bidders offering must also comply with the additional specification parameters mentioned above.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Kuldeep Sharma	781017,The Commandant, 01 Bn NDRF, Patgaon, PO-Azara, Distt-Kamrup, Near Azara Railway Station, Guwahati (Assam)-781017	24	90
2	Pushendra Kumar	741246,The Commandant, 2 BN NDRF, Haringhata, PO-Mohanpur, Distt-Nadia (West Bengal)-741246	24	90
3	Gaurav Balaso Jangate	754006,The Commandant, 03 BN NDRF, MUNDALI Distt-CUTTACK (ODHISHA)-754006	14	90
4	Praveen S Prasad	631152,The Commandant, 04 Bn NDRF, Arakkonam, Post-Suraksha Campus, Distt-Ranipet (Tamil Nadu)-631152	12	90
5	Anil Talkotra	412109,The Commandant, 05 Bn NDRF, Village at Post-Sudumbare Near Siddhanth Engineering College, Taluk-Maval, Distt-Pune (Maharashtra)-412109	12	90
6	RAJENDER KUMAR	391510,THE Commandant, 06 BN NDRF, JAROD CAMPUS, PO-JHAROD, NEAR JARODIA PURA, TEHSIL-WAGODIA, DISTT-VADODARA (GUJARAT)-391510	18	90
7	Devender Parkash	151001,The Commandant, 07 BN NDRF 81 Bibiwala Road, Distt-Bhatinda (Punjab)-151001	18	90

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
8	Kunal Tiwari	201002,The Commandant, 08 BN NDRF, SECTOR 19 KAMALA NEHARU NAGAR GHAZIABAD (UP)-201002	18	90
9	Santosh Kumar	801103,The Commandant, 09 Bn NDRF, Ara Road Bihta, NH-30, PO- Bihta, Distt-Patna (Bihar)-801103	14	90
10	Dilbag Singh	521212,The Commandant 10 BN NDRF, Village- Adavinekkalam, Nunna Town, Viajywada, Distt-Krishna (Andra Pradesh) Pin Code-521212	12	90
11	Ram Bhavan Singh Yadav	221002,The Commandant, 11 Bn NDRF, Goutambudh Bhawan, Maqbul Alam Road, Varanasi (Uttar Pradesh)-221002	20	90
12	Deepak Kumar Jaiswal	791112,The Commandant, 12 BN NDRF, Vill+ PO- Doimukh, Distt- Papum Pare, (Arunachal Pradesh)-791112	12	90
13	Binu Samuel	141008,The Commandant, 13 BN NDRF POST- Ladhowal Dist- Ludhiana -141008	54	90
14	Lalit Mohan Singh	176201,The Commandant, 14 BN NDRF, (Jachh) Jassur, Tehsil- Nurpur, Distt-Kangra (Himachal Pradesh)-176201	54	90
15	Rohitashwa Mishra	263152,The Commandant, 15 BN NDRF, KISHAN SANKARI MILL BUILDING GADARPUR, POST- GADARPUR, DISTT- UDHAM SINGH NAGAR, UTTARAKHAND-PIN CODE- 263152 CONTACT NO. 05949-231198	54	90
16	Gourav Sharma	110077,The commandant, 16 BN NDRF, RRC Campus Sector 7 Dwarka New Delhi-110077	54	90

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the

contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. **Generic**

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. **Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

4. **Generic**

Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

5. **OEM**

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

6. **Inspection**

Nominated Inspection Agency: On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:
Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC):

Board of Officer detailed by HQ NDRF

Post Receipt Inspection at consignee site before acceptance of stores:
Board of Officer detailed by Consignee

7. **Financial Criteria**

NET WORTH: Net Worth of the OEM should be positive as per the last audited financial statement.

8. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

9. **Certificates**

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

10. **Turnover**

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

11. Turnover

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

12. Service & Support

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

13. Warranty

Warranty period of the supplied products shall be 2 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

14. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

15. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Pre-Bid Details:-

Pre- Bid Date and Time	Pre-Bid Venue
23.07.2024 1500 hrs	Conference Hall, HQ DG NDRF, 6th Floor, NDCC Building-II, Jai Singh Road, New Delhi-110001

TECHNICAL SPECIFICATION OF INFLATABLE RUBBERIZED BOATS

S/No	Specification
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1	SCOPE:	This specification relates to the detailed requirements for the design, construction, tests & trials, documentation and warranty of 4.5m Inflatable Boats, intended for NDRF.
2	Functions	The inflatable boat shall perform the following tasks: - (a) Search & Rescue during floods (b) Transport men and material (c) Support boat for body search and diving.
3	Design	i. The boat shall be designed to be seaworthy/ River worthy /Stationary water bodies/ Stagnated water to carry out functions listed under head function with full complement and at speeds (not less than 10 knots commensurate with a range of 25HP to 40HP OBM). ii. The craft shall be stable and should meet swamp & stability requirement specified at Para 18.16 of this Specification. iii. The boat shall be designed to have good manoeuvrability and throttle response throughout its speed range (using 25HP to 40HP OBM 4 stroke) and particularly when operating at flowing water speed of 10-15 Knots. iv. High-pressure inflatable keel for better performance and handling. v. V-shaped hull for improved stability and handling in rough waters. vi. Minimum 5 air chambers for safety and redundancy
4	Features	i. Grab lines for easy boarding and disembarking ii. D-rings for attaching equipment and accessories iii. Self-bailing drain valve for easy water evacuation iv. Compatible with OBM range of 25 to 40 HP

5	Principal particulars	<p>(a) Length exterior - Not less than 4500 mm</p> <p>(b) Breadth exterior - Not less than 1960 mm</p> <p>(c) Length interior - min. 3200 m</p> <p>(d) Breadth interior - min. 1000 m</p> <p>(e) Dia of Buoyancy Tube - Not less than 480 mm</p> <p>(f) Carrying Capacity - 10 men (82.5 Kg per person)</p> <p>(g) Weight of the craft - Not more than 90 kg for boat & accessories (Without OBM)</p>
6	Built	<p>1) The craft shall be built of Buoyancy Tube made of Composite Fabric consisting of Hypalon (outer layers) and Neoprene (inner layers) of 1670 Dtex or equivalent, inspected by IRS as per ISO 15372.</p> <p>2) The bottom floor of the boat shall be made of the same fabric as buoyancy tube.</p> <p>3) Reinforcement of the boat shall be provided using rubberized strips of Hypalon (outer layer) and Neoprene fabric (inner layer).</p> <p>4) The stern of the boat formed by a transom shall be made of Marine Plywood or Foam Core with fiberglass three layers on which OBM can be mounted</p>
7	Approval And Inspection by Inspection Authority	<p>1) The Craft is to be constructed under the approval of Indian Register of Shipping (IRS) in accordance with ISO 6185, Part 3 (2014) and the minimum requirements specified in this specification.</p> <p>2) Parameters not mentioned in this specification would be in accordance with ISO 6185, Part 3 for inflatable crafts, so as to ensure that the craft meets all functional/material requirement specified in this specification. Class approval shall cover following aspects: -</p> <p>(a) Design vetting</p> <p>(b) Drawing approval</p> <p>(c) Material Inspection</p> <p>(d) In-process Inspections</p> <p>(e) Tests & Trials in flowing water and rescue simulation as per committee.</p>

8	Certification	Indian Registrar of Shipping (IR Class) to ensure that it meets safety standards
9	Construction Details	<p>Buoyancy Tube : The material used for buoyancy tube shall be of Hypalon (outer layers) and Neoprene (inner layers) composite fabric, of 1670 Dtex or equivalent inspected by IRS as per ISO 15372.</p> <ol style="list-style-type: none"> 2) The Buoyancy Tube shall be divided in to a minimum of 05 air tight compartments by means of baffles/bulk-heads. Each compartment shall be fitted with a combined inflation/deflation valve. 3) The valves shall be made of rubber moulding and plastic nylon material or alternate marine grade material approved by class. The valves should be of reputed make and approved by Classification society for use on inflatable crafts. 4) The ends of the tube shall be conical and should terminate in suitably stiffened rubber conical flat ends to take impact loads during coming alongside/lowering. 5) The two legs of the Buoyancy Tube shall be parallel and the width readings at the transom and at midship shall not differ by more than 3%. 6) The tube shall be strong enough to sustain the effects of ramming whilst coming alongside at the speed of 05 knots. 7) The upper layer shall be strong enough to bear the rubbing impact against rough surfaces. In addition, an emergency repair kit with quick drying adhesive and ready use repair patches shall be provided. 8) The construction of the Buoyancy Tubes should be in accordance with class approved drawings and production processes. 9) The attachment of bulkheads in the buoyancy tube shall be such that each chamber is rendered air tight under specified pressure. 10) The seams in the buoyancy chambers shall have an overlap not less than 3cm width and should be pasted with cold glue vulcanisation process or equivalent Class approved process. 11) An additional strip is to be glued at the edge of each panel junction as well as strip inside all assembled parts in order to ensure a perfect water tight

preventing from any leakage.

Inflation/Deflation Valve

- 1) The Inflation/Deflation valve shall combine a high-pressure air connection with a deflation valve in each air tight chamber and shall be as per ISO 6185-3 (2014).
- 2) The valve shall be fitted proud of the buoyancy tube on inner side of the buoyancy tube to enable identification/location in darkness.
 - 3) The material of inflation/deflation valve fitted on the buoyancy tube shall be of suitable material for marine application.
 - 4) Alternate design/arrangement for inflation/deflation valves which meet the above functional requirements is acceptable subject to the approval of Classification Society.

Floor

- 1) The floor shall be made of Hypalon (outer layers) and Neoprene (inner layers) composite fabric, of 1670 Dtex or equivalent inspected by IRS as per ISO 15372.
- 2) The floor shall be bonded to the underside of the buoyancy tube and attached by a floor retaining strip to the transom board.
- 3) It shall be strengthened on its underside in way of the keelson by a keelson chafing strip of minimum 100mm wide fabric.
- 4) Chafing strips shall also be bonded to the underside at the after ends of the tubes.
- 5) Special attention shall be paid to the attachment of the floor to the buoyancy tube to ensure that the resulting joint is water tight.
- 6) Special care is also to be taken that the floor is perfectly taut and smooth and has no puckers, when the craft is assembled and ready for use.

Self-Bailers/Drain Valves

- 1) Two self-bailers akin to NRV shall be located on the lowermost part of the transom board near the rear end fitment of the keel close to the centre line.
- 2) The same shall be provided with a flexible flap to overcome pressure on the NRV in following seas.
- 3) The self-bailers shall automatically remove

water from the craft at higher speeds.

- 4) Additional Scupper should also be fitted to Transom.

Transom

- 1) The transom board shall be fitted and securely bonded to the buoyancy tube and the floor so as to provide a water tight joint.
- 2) The Transom shall be designed for use with 25 to 40 HP OBM
- 3) The transom shall be made of marine plywood **or foam core** coated with 03 **layers of 6 mm** FRP/GRP of appropriate thickness and to be suitably fitted out with engine mount made of marine grade Aluminium alloy plate and chafing patch.
- 4) Hypalon coated fabric shall be pasted on the surface area of the transom to prevent it from damage as well as loosening from the tube body. Separate strip of suitable size shall be provided on the bottom of the transom to minimize chance of damage.
- 5) Details regarding craft identification No. etc shall be engraved on a builder's plate fitted on the inner side of the transom on starboard side. Towing rings, cleat and 'U' brackets shall be provided as per approved drawing.

Floor Boards.

- 1) The boat is desirable to be without floor boards. Inflatable and other designs promoting speed of /in deployment or other benefits will be welcomed.
- 2) However, if the floor beds are to be made in that case it should be: - 1) The Floor boards shall be made of High Strength Tempered Anodised marine grade Aluminium alloy with a foam mat (non-skid) finish.
- 3) These boards (Four/Five pieces) shall be interconnected together to form a rigid platform. The forward/bow piece of floorboard may be made of marine plywood (IS 710) coated with FRP lamination.

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Keel

- 1) The boat shall be provided with inflatable keel of suitable size to provide the rigidity & stability during operation of boat.

Stowage Pockets.

- 1) Minimum **two** Stowage pockets shall be attached to the buoyancy tube in the forward in board side.
- 2) The stowage pockets provided shall be capable of holding dynamic weight of 6 Kgs.
- 3) Holes are to be provided at the bottom of the pocket to drain water (Size 340mm x 280 mm x 90mm).

Rubbing Strips.

- 1) Following single piece Rubbing Strips of moulded neoprene rubber of 2" width (where not mentioned) and extending along the entire length shall be attached to the buoyancy tube for the protection of the craft: -
 - (a) Bow rubbing strip 4".
 - (b) Outer anti chafing strip 100mm wide on both sides.
 - (c) Anti-Chafing Strip under Keel of V shape.
 - (d) Two Beaching Strips 100 mm wide under buoyancy tubes.
 - (e) Chafing patch for coxswain's position

Carrying Handles.

- 1) Minimum **seven** Carrying handles shall be provided, three on each side and one front lifting handle.
- 2) The handles shall be suitably reinforced to take a weight of 300 kgs all together.
- 3) The handles shall be of Moulded Neoprene Rubber bonded to the buoyancy tubes.

Towing Fittings and Securing Arrangements.

- 1) Following Towing fittings shall be provided. Towing fittings shall consist of suitably sized D Shackle of SS AISI 316(to pass towing rope) securely attached to fabric reinforcing patches bonded to the buoyancy tube.
 - a **Towing/ Lifting fittings, forward** - One on either side of the craft, below the buoyancy tube at the beginning forward curve in the buoyancy tube.
 - b **Towing fittings, aft** - One on either side on the transom, shall be used if craft is

employed for towing purposes.

- c **Load Test.** The towing arrangement shall be load tested as per ISO 6185-3.

Oars & Oar Securing Assemblies.

Two nos. of oars to be provided. Oars shall be positioned parallel/30° to the vertical when secured inside the inboard side of buoyancy tubes. Adequate securing arrangement shall be provided so that the oars are intact.

The buoyancy must have fittings for fixing oars.

Foot Bellow pumps

- 1) Heavy duty bellow type foot pump (reputed make) of suitable design shall be provided to inflate the craft in approximately 20 minutes.
- 2) The housing of pump is to be made of a heavy duty yet light weight marine composite.
- 3) The Bellow to be made of coated reinforced fabric and all metal parts should be of stainless steel.
- 4) In addition, one heavy duty electric inflation pump of reputed make (12 V DC) and one pressure gauge (capable of measuring pressure of tubes) of reputed make to be provided.

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Fabric Fittings:-Patches, doublers, anchorages, etc. shall be made and positioned as shown on the drawing which indicates finished size. Suitable tape/webbing reinforcement shall be used to distribute stresses adequately.

Grab line

There shall be grab line nylon braided (as per IS 4227) of dia. min. 12.0mm all along the sides for safety to be provided.

10

Material specifications

- 1) Material Specification for the various items to be used for construction of Inflatable crafts are as follows: -
 - a. Tube Fabric: Hypalon or PVC
 - b. Floor (not Hull) Material: Fiberglass or Aluminium, 3-piece detachable plates with single running channel on each side or new design to be submitted if any
 - c. Transom plate: Fiberglass with Stainless steel plates. /OBM SADDLE.
 - d. The Material Specification for buoyancy tube, inflatable keel composite fabric of 1670 Dtex or equivalent as per ISO 15372 and inspected by IRS.
 - e. The Material Specification for floor system as per recognized national/international standard.
 - f. The material specified shall be strictly adhered to and no deviation is permitted. Materials referred to as approved shall be so approved by the Classification Society in accordance with the requirement specified in this Rule.
 - g. The colour of all exposed surfaces / material shall be highly visible orange color.

Adhesive

- 1) The adhesive shall be Neoprene based contact adhesive of good quality and to be suitable for service in tropical environments as per specification.
- 2) The adhesive shall consist of a dispersion of polychloroprene in a low boiling point solvent and may have additions of resins to promote building tack.
- 3) The adhesive shall consist of 2 components, Part 1 and Part 2, Part I being the basic neoprene dispersion and part 2, the accelerator (hardener).
- 4) The adhesive should be approved by Classification Society for use on inflatable and meeting the minimum requirements specified in ISO 6185-3 (2014).
- 5) Alternate adhesive superior in properties are also acceptable subject to type approval of Classification Society as per ISO 6185-3(2014).

11

Principal components of boat

The principal components of the complete assembly are as follows: -

Hull

- 1) Buoyancy tube - Divided in minimum 05 compartments and complete with rubber conical flat ends.
- 2) Bulkheads -Dividing the buoyancy tube into min 5 compartments.
- 3) Inflation/deflation valves - one set per chamber.
- 4) Transom- fitted with engine mount, anti-chaff patch.
- 5) Floor - in proofed fabric
- 6) Keelson chafing strip - 1 No.
- 7) Aft chaffing strip - 1 No.
- 8) Inflatable Keel- 1 No.

Hull Fittings

- 1) Bow Rubbing strip- 1 No.
- 2) Side Rubbing strip Aft -1 set
- 3) Carrying Handles (Patch rubber with handle)- 4 Nos
- 4) Grab line - 1 set
- 5) SS to AISI - 316 Hook on transom - 2 Nos
- 6) SS to AISI - 316 "D" rings - 2 Nos
- 7) Pockets for stowage- 1 Nos (One for wireless set & one for inflation below pump)
- 8) Oars (Shall be light weight not more than 4 Kgs and positively buoyant in water)
- 9) Repair Kit (small) - fabric patches 05, adhesive tube (Dendrite) 500 gm, roughing tool, spanners of required sizes, yamadur (hardener)

Valises and Store bags

- 1) Heavy duty storage bag for Hull - 01 No.
- 2) Storage bag for oars & other accessories - 01 No

Additional Spares

		<ul style="list-style-type: none"> (i) Inflation/ Deflation Valves - 10 Nos (ii) Pressure gauge - 01 Nos (iii) Plugs for Water Drain - 04 Nos (iv) NRV for Water Drain - 10 Nos (v) Electric Inflation pump - 01 No (vi) Bellow Inflation Foot Pump - 02 Nos (vii) Patching material with adhesive to repair leak/damage in buoyancy tube. (viii) Scuppes for bailing water from Transom.
12	Accessories	<ul style="list-style-type: none"> i. Inflatable foot pump ii. Repair kit iii. 06 Oars iv. Carry bag or storage cover v. Cordless Blower vi. Puncture Kit

<p>13</p>	<p>Production.</p>	<p>Manufacturing of the craft should be as per the detailed drawings approved by Indian Register of Shipping (IRS) and meeting the requirements mentioned in this specification. The production processes should also be approved and supervised by the IRS.</p> <p style="text-align: center;"><u>Tolerance</u></p> <p>1) General tolerances on all dimensions shall be $\pm 1.5\%$ unless otherwise specified in this specification or approved by Classification Society. The exceptions to this general limit shall be in respect of stuck-on components length of webbing and cordage, and the overall dimensions of components etc; these items shall be given a sliding scale tolerance which increases in accordance with the magnitude of dimensions.</p> <p style="text-align: center;"><u>Production Damages</u></p> <p>1) Any Production damage irrespective of size shall be repaired by complete part / panel replacement only. The replacement is to undertaken by the contractor free of charge at the consignee place as soon as possible and in any case not later than one month from the date of receipt of intimation.</p> <p>2) No patch repair is permitted on buoyancy tube/ floor. In case of production damages only part/ Panel Replacement shall be permitted.</p> <p>3) Where a part panel replacement is necessary, the following parameters shall apply:</p> <ul style="list-style-type: none"> i. On the buoyancy tubes, not more than one part panel replacement will be permitted on each craft. ii. On the floor not more than one part panel replacement will be permitted on each craft
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14	Records	1) The builder shall develop and maintain records that demonstrate the effective operation of his quality control system and shall make these records available for review of the Inspecting agency. 2) Inspection records shall include explicit identification of the material, part sub-assembly, equipment, sub-system or system, the nature and number of observations made, the number and type of deficiencies found the quantities approved or rejected and the nature of the corrective action taken, as appropriate. Records shall be retained until disposal is directed by the Inspector. The contractor shall furnish a copy of any record to the Inspector, on request.
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<p>15</p>	<p>Drawing & documents</p>	<p>1) Within one month of placement of order the builder shall submit the design and manufacturing drawings for the approval of the Classification society.</p> <p>2) Construction of the craft is to commence only after the approval of all drawings by Class.</p> <p>3) Drawing approval should include approval of Classification Society for component level detailed production drawing required for manufacturing the craft.</p> <p><u>As Fitted Drawings/Documents.</u> On successful completion of all tests/trials and prior to the delivery of the specific boat, the Builder shall supply to consignee two sets each of the following as fitted /As made drawings and documents with the craft.</p> <p>1) Buoyancy tubes</p> <p>2) End cones of buoyancy tube</p> <p>3) Floor and details of joint between floor and buoyancy tubes.</p> <p>4) Transom with details of joint between transom, floor and buoyancy tube</p> <p>5) Assembly drawings for keelson and floor board</p> <p>6) Fitment details of each of fittings:-</p> <ul style="list-style-type: none"> (a) Inflation/Deflation valves (b) Self bailers & scuppers (c) Rubbing Strips (d) Carrying Handle (e) Towing fittings, (f) OBM attachment drawings illustrating Engine support. (g) Fuel oil/L.O. system with storage provisions <p>7) The builder shall also supply soft copy of all the As Fitted /As Made drawings to the consignee.</p>
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<p>16</p>	<p>Inspection.</p>	<p>1) The inspection authority for the boats will be Indian Register of Shipping (IRS).</p> <p>2) The complete inspection of the craft as mentioned at Para 4 of this specification will be undertaken by Classification Society as per approved QAP. Towards this builder will submit the draft QAP for the approval of Classification Society, within one month of placement of order.</p> <p>3) The cost of conducting tests and the material required for the purpose are to be borne by the builder.</p> <p>4) The suitable OBM (25 to 40 HP) and POL for conducting trials shall be provided by the builder at the site of trials.</p> <p>5) In case the builder premises does not have river front, the builder should transport the first craft to suitable location in India (mainland) specified by the order placing authority. Trials can be done at NDRF Academy or associated training academies.</p>
<p>17</p>	<p>User acceptance of first craft of every order</p>	<p>1) On successful completion and clearance post clearance from Classification Society, the first boat of every order will be subjected to extensive user trials covering all functional requirements as well as test & trials brought out in this Specification.</p> <p>2) The trials shall be conducted jointly by Classification Society and Customer nominated team. Deficiencies observed by the trial team w.r.t the requirements stipulated in this specification should be liquidated by the builder at no extra cost. Subsequent crafts of the order shall be cleared by inspecting agency only after liquidation of all deficiencies observed during user acceptance trials of first craft.</p>

<p>18</p>	<p>Warranty clause</p>	<p>1) The inflatable crafts supplied shall bear a warranty of the contractor, against defective material, workmanship and performance for a period of 24 months from the date of receipt of the consignment of the stores.</p> <p>2) During this period if any of the stores supplied found defective the same shall be replaced by the contractor free of charge at the consignee place as soon as possible and in any case not later than one month from date of receipt of intimation by the contractor.</p> <p>3) Delay in replacement /repair beyond one month shall invite penalty @ 0.5% per week or part thereof of the cost of goods/stores/parts/assembly in question.</p> <p>4) In addition Inflatable crafts should have manufacturers /builders warranty for 05 years for the fabric used and 24 months for the adhesion at joints, under normal exploitation</p> <p>5) The supplier/OEM shall also bear a service warranty and spare supports for the Boat for a minimum 10 years</p> <p>6) An undertaking of the same to be furnished by the OEMs</p>
<p>19</p>	<p>Inspection authority</p>	<p>The inspection authority for the boats will be IRS or equivalent IACS (International Association of Classification Societies) member.</p>
<p>20</p>	<p>Deflation and dismantling</p>	<p>When deflated and dismantled the craft and components shall be stowed in heavy duty top-proofed PVC coated nylon valises fabric as defined in Para 7.3 above.</p>

<p>21</p>	<p>1) Stencilling and marking.</p>	<p>The following shall be marked on builder's plate fitted on inner side of the transom starboard side:</p> <p>-</p> <p>BOAT GENERAL PURPOSE</p> <p>i. INFLATABLE NO.: -----</p> <p>ii. DATE OF SUPPLY: -----</p> <p>iii. NAME OF MANUFACTURER: -----</p> <p>-----MAX LOAD</p> <p>iv. CARRYING CAPACITY (KG): -----</p> <p>-----MAX MOTOR</p> <p>RATING (KW): -----MAX NO. OF PERSONS: -----RECOMMENDED WORKING PRESSURE -----</p> <p>-----</p> <p>2) The following parts shall have the identification of the craft permanently marked on them: -</p> <p>i. Bottom boards - Stencil marking to be made</p> <p>ii. Oars- -do-</p> <p>iii. Storage bags - -do-</p> <p>iv. Valises- -do-</p> <p>3) The stenciling is to be in black ink, waterproof and of a quality non-injurious to the proofed fabric .</p>
<p>22</p>	<p>Packing Instruction</p>	<p>The unit shall be suitably packed to withstand the hazards of rail / road transit and with a view to avoid any damage during transit and safe arrival at consignee's address.</p>
<p>23</p>	<p>Inspection Test and Trials for Prototype Craft</p>	<p><u>Physical and Chemical Tests</u></p> <p>Fabric and cordages are to be of approved type. If considered necessary, following physical and chemical tests on samples of various types of fabrics, cordages shall be carried out by Classification Society in order to ensure that these conform to the required designed specifications.</p> <p><u>Fabrics</u></p> <p>1) Prior to starting manufacture, the manufacturer shall submit samples of the fabric to the Inspecting Officer as follows:</p> <p>Buoyancy Fabric - 1-Meter -long full width</p> <p>Floor Fabric -</p>

-do-

- 2) The testing of fabric shall be arranged at a appropriate NABL approved laboratories in presence of IRS Surveyor.

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Cordages

Test certificates in respect of these items issued by an independent testing authority, where possible or by the manufacturer may be accepted. In case of doubt the purchaser's Inspector may draw samples for testing at the approved Laboratories.

Dimensions

- 1) The dimensions of the craft shall be measured with the craft inflated and completely rigged.
- 2) The diameter of the buoyancy chambers shall be taken at 3 points along each parallel side. The width shall be measured at the transom and at a point midship. The internal lengths shall be measured between a pump line from inner one of the buoyancy tubes to the bottom end of transom along the floor boards.

Air Inflation Tests

- 1) The under mentioned tests shall be carried out of the craft when completed with all fittings. During the tests draughts shall be guarded against and the temperature shall be kept as constant as possible throughout the test.
- 2) For every 1° Centigrade (1 degree Fahrenheit) rise above the temperature at commencement of the test, 0.004 bar (0.058 PSI or 1.5 inch of water) is subtracted from the final pressure reading and for every 1° Centigrade (1 degree Fahrenheit) fall in temperature 0.004 bar (0.058 PSI) shall be added to the final pressure reading. If the temperature variation during the period of the test is greater than 3.0° C the test is invalid and a further test shall be made under more constant temperature conditions. Accurate thermometer readings shall be taken.

Inflation Test
Preliminary Inflation Tests

The whole of the buoyancy tube shall be inflated 1.2 times of nominal pressure defined by manufacturer (but min. 2 PSI (55 inches of water) to pre-stretch the boat and left for 30 minutes. The pressure at the end of this test shall not be noted, but craft examined for undue stretch or distortion.

Air tightness Pressure Test

The whole of the buoyancy tube shall be inflated to nominal pressure defined by manufacturer (but min. 0.14 kg/cm² or 2 PSI) and left for 24 hrs., the pressure drop after correction for temp. change shall not be greater than 20% in any compartment.

Bulkhead/Overpressure Test

- 1) Each Chamber of the buoyancy tube shall to be inflated to 1.5 times of nominal pressure defined by manufacturer (but min. 3 PSI) with all other chambers remaining deflated and left for 30 minutes. No damage or rupture shall occur. Fall in pressure corrected for change in temperature shall not to exceed 0.012 Kg/cm² or 4.5 inch of water column.
- 2) The tests stipulated in Floatation Test, Free Board, Assembly/ De-assembly & Deflation_below shall be carried out in calm conditions in smooth water. Service Floor Boards with additional 10 Kg weight shall be used for the tests.

Floatation Test

Each craft shall be inflated and assembled complete with keelson and bottom boards. It shall be floated in water. A load of 825 Kg shall be distributed evenly over the floorboards and the craft left floating for 30 minutes. No leakage of water is to occur. Any defects found at the conclusion of this test shall be made good by the builder.

Free Board

The free board of the vessel when floating fully inflated in calm water and loaded with a test load of 825 Kg. shall not be less than 1/6th the diameter of the main buoyancy tube, forming a side of the vessel, such free board being measured at mid length of the vessel.

Assembly/ De-assembly

It shall be proven that the craft can be assembled and de-assembled as per standard procedures.

Deflation

Deflation tests shall be carried to prove that the craft can be successfully deflated.

Swamp & Stability Examination

Swamp & stability check to be carried out as per ISO 6185-3.

Damage Test

The craft shall be capable of supporting 825 kgs with any two alternate compartments deflated.

Power Trials

Power trials with the outboard engine (25 to 40 HP OBM) shall be conducted under various loads (light load & full load min.) along with turning circle, maneuverability trials, crash stop and performance of the boat shall be satisfactory during trials. A specific simulation will be setup by the committee and tested accordingly.

Towing Tests

- (a) The boat shall be tested in the manner described below.
- (b) Embark the maximum number of persons reckoned and position them uniformly within the seated area.
- (c) Tow the boat by its towing point at a speed of not less than 4 knots, allowing a tow line length of 3 boat length.
- (d) Carryout maneuvers for not less than 15 min.
- (e) The boat shall be closely examined at the end of the test period for any structural failure in the form of fracture, tear etc. on any part of the hull or boat component, such as deck or thwarts, and including any boundary interface such as floor/hull.
- (f) The point of attachment of the tow line shall remain secure during the period of the test.
- (g) Evidence of any of the referred-to structural failures shall be regarded as failure of the boat.

Righting Test

The capsized craft shall be capable of being righted by two men with an average weight of 82.5 Kg each. For this test if two men each weighing 82.5 Kg are not available, then 3 men whose total weight does not exceed 250 kgs may be used. During this test, the craft shall be

		<p>e in its light condition with no engine and or other equipment fitted in the craft.</p> <p><u>Rowing test for Oars</u></p> <p>It shall be proved that the craft loaded with 825 can be oar propelled. The craft shall be turned, brought alongside etc. The test shall be conducted over a distance of 300 meter in light load & full load condition of attachment to tube shall be examined for any damage.</p>
24	Completion	<p>1) The craft shall be completed in all respects to the satisfaction of the Inspector. All items of equipment to be checked. The craft shall be assembled on the shop floor and a check is to be carried out that the parts fit properly.</p> <p>2) On completion of all tests and examinations the hull and bottom boards, etc. shall be packed into their valises, before dispatch.</p>

SPECIFICATION OF OUT MOTOR BOARD (OBM)

SI No	SPECIFICATIONS
1.0	<p><u>Scope:</u></p> <p>This specification relates to the detailed technical requirements of 40 HP Four Stroke Outboard Motor (OBM) intended to be used on 4.5 m Inflatable Boats of NDRF.</p>
2.0	<p><u>FUNCTIONS</u></p> <p>The 40 HP Four Stroke Outboard Motor (OBM) is intended to be used on 4.5m Inflatable Boats, which shall perform the following tasks :-</p> <p style="padding-left: 40px;">(a) Search & Rescue during floods (b) Transport men and material</p>
3.0	<p><u>Requirements</u></p>
3.1	<p>The make & model of OBM shall be of reputed make. OBM make should have indigenous product support throughout India.</p>

3.2	OBM shall be compatible (throttle response throughout its speed range, shaft length, propeller etc.) with 4.5m Inflatable Boats of NDRF and can be quickly attached to boat whenever required.
3.3	The Outboard motor shall be of four strokes, three cylinders in-line gasoline engine with suitable propeller.
3.4	The OBM should be capable of developing 40 HP.
3.5	The OBM shall have electronic fuel injection system.
3.6	The engine cooling system shall be water cooled with thermostat.
3.7	The OBM shall be provided with tiller handle for steering.
3.8	The OBM shall be provided with manual trim & tilt.
3.9	The exhaust shall be through propeller.
3.10	The lubrication system shall be wet sump.
3.11	The OBM shall be ultra-low emission ratings.
3.12	The length of the shaft of OBM shall be compatible with transom height of 4.5m Inflatable Boats of NDRF (Long shaft).
3.13	The engine and drive line shall be fitted in enclosed housing to protect from water.
3.14	OBM shall be manual starting capability.
3.15	OBM shall have forward, neutral & reverse gear shifting arrangement.
3.16	The OBM shall be provided with OEM supplied standard fuel tank along with suitable accessories such as connecting fuel hoses, male & female adopter.
3.16	OBM shall be provided with owner's manual & service manual.

3.17	OEM recommended standard spares are to be provided. <u>On-board spares (OBS)</u>
	3.17.1) Engine oil filter - 03 nos.
	3.17.2) Fuel Filter - 06 nos.
	3.17.3) Air Filter - 02 nos.
	3.17.4) Fuel line with priming valve and connectors - 01 No.
	3.17.5) Propeller - 01 No.
	3.17.6) Spark plug - 03 Nos.
	3.17.7) Spark plug wrench - 01 No.
	3.17.8) Water pump repair kit - 01 set
	3.17.9) Water pump impeller - 01 No.
	3.17.10) Gear oil drawn screw washer - 06 nos.
	3.17.11) Lubrication oil drain plug washer - 02 nos.
	3.17.12) Fuses of all system complete - 02 set
3.18	OEM Shall be provided with suitable storage stand.
3.19	Dry weight of the OBM shall not be more than 85 Kgs or the industry standards.
4.0	<u>INSPECTION</u>
4.1	The inspection authority for the Outboard Motors will be DG NDRF and IRS. The charges of inspection authority shall be borne by the firm
4.2	The cost of conducting tests including POL and the material required for the purpose are to be borne by the firm
5.0	<u>PACKING INSTRUCTION</u>
5.1	The unit shall be suitably packed to withstand the hazards of rail / road transit and with a view to avoid any damage during transit and safe arrival at consignee's address.
6.0	<u>TEST & TRIALS</u>

6.1	Verification of OEM documents/certificate w.r.t. to engine model, sr. no., capacity, product description, emission rating etc. including owner's manual & service manual.
6.2	Visual examination of each OBM.
6.3	Installation of OBM on NDRF supplied boat. a) OBM should be capable of quickly attached to the boat. b) Shaft length of the OBM should be compatible with the transom height of boat.
6.4	Water trials of NDRF boats along with each new OBM covering:- a) Endurance trial on full load for one hour of one OBM in each lot being offered for survey. b) Performance of each OBM at light & full load. c) Maneuvering trial with each OBM d) Turing circle of with each OBM e) Astern Trial of with each OBM f) Verification of trim & tilt arrangement of each OBM.
6.5	Verification of accessories & OBS of each OBM.
6.6	Single-Hand control over Gear and Throttle and having capability of forward and reverse function on control handle for better control.
6.7	Kill switch or Auto cut off feature for added safety.

Additional Terms & Conditions :-

1. All participating firms to submit following self-declaration certificates on firm's letter head.-

- (a) Bid Security Declaration.
- (b) Non-Blacklist Certificate.
- (c) Bidder Financial Standing.
- (d) Local Content Certificate.
- (e) Sharing Land Border with India.

The format of above certificate are as under:-

(a) Bid Security Declaration : Micro and Small Enterprises/Startups or any other exempted entity should submit Bid Securing Declaration as per format given below failing which their participation will be liable to be straight way rejected during initial scrutiny and no opportunity will be given to provide the same during review representation: -

GeM Tender No..... Dated.....

BID SECURING DECLARATIONS CERTIFICATE

(Applicable only For MSE/Start-ups Sellers OR any other entity for exemption of EMD).

To,

Dy. Inspector General (Prov),
HQ DG NDRF
6th floor NDCC Building-II
Jai Singh Road,
New Delhi- 110001

Sir,

Tender/GeM. Bid No. _____ We, M/s- _____ under take that if we withdraw or modify our bid during the period of validity, or we are awarded the contract and we fail to sign the contract, or to submit a performance security before the deadline defined in bids documents, we will be suspended for the period of 02 years from being eligible to submit bids for contract with procuring entity i.e- NDRF , Ministry of Home Affairs.

Yours faithfully

(Sig of Auth Signatory of Firm with Seal)

(b) Non-Blacklisting Certificate:-

Bid No..... Date.....

We M/s _____ do hereby undertake that our firm has not been blacklisted by any Govt/PSU agencies in last two years.

(Signature of the Authorized Signatory of Bidder, with Official seal)

(d) Bidder Financial Standing:-

Bid No.....
....

Date.....

We M/s _____ do hereby undertake that our firm has not under liquidation, court receivership or similar proceedings and also not bankrupt on any account.

(Signature of the Authorized Signatory of Bidder, with Official seal)

(d) Local Content Certificate: -

-

SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA AND LOCAL CONTENT

To,
Dy. Inspector General (Prov),
HQ DG NDRF
6th floor NDCC Building-II
Jai Singh Road,
New Delhi- 110001

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments, we hereby certify that we M/s _____ are local supplier meeting the requirement of minimum local content i.e., _____.% as defined in above orders for the material against IPR Enquiry/Tender No.....dated..... Details of location at which local value addition will be made as follows:

_____.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i) (h) of the General Financial Rules for which a bidder or its s

accessors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature with date:

Name:

Designation:

Official Seal

(e) Sharing Land Border with India:-

Bid No.....
.....

Date.....

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this vendor/bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this vendor/bidder fulfils all requirements in this regard and is eligible to be considered for procurement on GeM.

(Signature of the Authorized Signatory of Bidder, with Official seal)

2. RIGHT TO REJECTION

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- (i) The decision of the DG NDRF shall be final as to the quality of the store and shall be binding upon the Tenderers and in case of any of the articles supplied not being found as per specification shall be liable to be rejected or replaced and any expenses or losses caused to the supplier should be borne by the supplier and ensured by the supplier that articles supplied should be best in quality and free from all defects.
- (ii) The acceptance of articles will be made only when the articles are inspected and found up to the standard/ as per specifications and free from all defects.
- (iii) The rejected stores must be removed by the Tenderers from the consignee's premises within 15 days from the date of the intimation

about rejection at the risk and cost of the Tenderer. The In-charge of stores concerned will take reasonable view of such materials but in no case shall be responsible for any loss, shortage, damage that may occur to it while it is in the premises of the consignee

3. DELIVERY OF STORES

- (i) Delivery period will include the inspection and replacement of rejected lot.
- (ii) Firm should not deliver stores to consignee(s) beyond scheduled Delivery Period without obtaining prior sanction of purchaser.
- (iii) Under the contract, the stores are of utmost importance and need to be delivered within DP as the stores are life-saving. Late delivery may cause loss of lives. Seller is liable to pay the LD charges for the loss likely to be caused to buyer due to late supplies as per T & C.
- (iv) No grace period will be provided after the stipulated delivery period, however the decision will be taken as per the circumstances and the buyer may extend DP with or without LD.

4. LAW GOVERNING THE CONTRACT

- (i) The contract shall be governed by the laws in force as of date in India and interpretation would be done accordingly.
- (ii) Jurisdiction of Court: The courts of the New Delhi shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

5. ARBITRATION

(i) Arbitration proceedings shall be held at New Delhi, India and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.

(ii) In the case of dispute or difference arising between the purchaser and the supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be settled in accordance with the Indian Arbitration and Conciliation Act, 1996.

6. Physical copy of EMD should be deposited to Procurement branch, HQ NDRF within 5 days from bid opening date (excluding Saturday, Sunday & Holiday).

7. Physical copy of Performance Bank Guarantee should be deposited to Procurement branch, HQ NDRF within 15 days from the award of contract or else contract is liable to be cancelled.

8. Bidder has to deposit one free tender sample with all accessories along with original lab test report from any Govt approved NABL lab on returnable basis for field trial at **16 BN NDRF, RRC Dwarka, Near Dada Dev Mandir, Dwarka Sector-7, New Delhi-110077** or the location indicated by the buyer within 7 days from opening of Bid.

9. Buyer have right to test/verify the tender sample/sample from bulk producti on/supplied store or at any stage from the NABL accredited/Govt lab, the testing charge will be borne by the seller.

10. Training: - Firm will provide operational/technical training at consignees loc ation/locations intimated by the buyer through Physically/Virtually as per the de cision of purchaser/buyer for a duration of 03 days free of cost.

11. Bidder should upload the relevant documents/undertaking confirming the a ll parameter of technical specifications uploaded through Buyer Added Bid Spec ific ATC clause.

12. Service & Support:- During the Guarantee/Warranty period following 04 loc ation will be cluster point for collection and delivery of faulty equipment:-

- a. Kolkata (2nd BN NDRF)
- b. Chennai (4th BN NDRF)
- c. Baroda (6th BN NDRF)
- d. Ghaziabad (8th BN NDRF)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.

12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---