

## Tender for procurement of 100 Nos of Inflatable rubber boat alongwith 25 HP OBMs for SDRF

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### State Disaster Response Force (SDRF)

Disaster Management Dept. (Gov of Bihar)

Bihta, Patna, Biha. Pin-801103

E-mail - sdrfbihar125@gmail.com

Contract No/Fax: 0615252028

### Tender for procurement of boats alongwith out boat motor (OBM)

#### Tender Notice No – 01/e-Proc/SDRF/2018-2019

SDRF, Disaster Management Department, Government of Bihar, invites online tender for Procurement of 100 Nos of Inflatable boat alongwith 25 HP OBMs for SDRF Unit.

S. No	Particulars	Cost of Document(rs)
1.	Procurement of 100 Nos of Inflatable boat alongwith 25 HP OBMs for SDRF.	Tender Cost - Nil
2.	e-Tendering processing fee	Rs 1000 + GST @ 18% through e-payment only else bid will be rejected

Applications are invited from reputed, eligible and experienced Agencies/Firms/Companies/State or Central Govt, undertaking/Organizations that have IRS work approval.

The Authority (SDRF) shall endeavour to adhere to the following schedule.

S. No	Activity	Timeline
1.	Online downloading of tender document	From 15.06.2018 to 16.07.2018 (1300 hrs)
2.	Bid clarification date , time & place.	20.06.2018 Commandant, SDRF, Lai Road, Beside HPCL Campus, Bihta, Patna – 801103
3.	Last Date/Time for submission/Uploading of tender Application	Till 16.07.2018 up to 1500hrs
4.	Opening of General cum technical bid	17.07.2018 at 1300 hrs
5.	Submission of EMD in Hard Copy/Original.	Upto 16.07.2018 At : Commandant, SDRF, Lai Road, Beside HPCL Campus, Bihta, Patna – 801103
6.	Contact person/Nodal Officer for query	Commandant, SDRF, Lai Road, Beside HPCL Campus, Bihta, Patna – 801103 e mail – sdrfbihar125@ gmail.com
7.	Opening of financial bid	Communicated later

- E- Tendering processing fees shall be paid online to BELTRON at the time of uploading the tender.
- For participating in e-tendering process, the applicant shall have to get them registered to get user-ID, Password and digital signature. This will enable them to access the website [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in) and download/participate in e-tender. Those who are not registered in e-tendering systems, they may contact :  
“ e-Procurement helpdesk, First Floor, Plot No – M/22, Road No – 25, Sri Krishna Nagar, Bank of India Compound, Patna – 800 001, Contact No – 0612-2523006, 7542028164 for registration.

Address for Communication:  
Commandant,  
SDRF, Lai Road,  
Besides HPCL Campus, Bihta, Patna.  
Bihar- 801103

## **GENERAL MANDATORY TERMS AND CONDITIONS**

### **1. ELIGIBILITY CRITERIA**

(a) The bidder should be original equipments manufacture of the Inflatable boat. During supply of the boat a certificate from the manufacturer of OBMs has to be submitted stating that the OBMs (with engine number of all the OBMs) have actually been supplied by the manufacturer to the firm for further supply to SDRF, Patna Bihar.

(b) He should have experience of successfully delivered 200 Inflatable rubber boats to various govt agencies and departments.

(c) The bidder should not have been barred by a PSU/Govt. Dept in doing business (Please submit self declaration).

(d) The bidder must submit IRS work approval.

(e) The average annual financial turnover of the bidder during the last three years ending 31 Mar 2017 should not less than five Crore. Please submit Annual Report (balance sheet & profit and loss account) for the last three financial years.

2. The rates shall be quoted only in the financial bid. All charges like IGST/CGST/SGST etc. Shall be clearly mentioned and net rate (in figures and words) including all taxes etc shall also be clearly mentioned. Vague offers like "Taxes as applicable" will be summarily rejected. There should be no cutting, overwriting or correction in the rates.

3. Up to date Income Tax Returns of the preceding 3 years and PAN of the participating firm should be submitted along with the technical bid. IT Returns should have stamp and signature of the concerned Firm, whether filed manually or electronically.

4. If there is some discount in the price of any item, it should be deducted from the price itself and should not be quoted separately.
5. It will be responsibility of the successful bidder to deliver the items at SDRF Camp Bihta, Patna. The rates should be quoted taking the entry tax, transportation costs etc into account. No road permit will be provided by unit for transportation of goods.
6. Only those tenders whose technical bids are found successful, their Financial bids will be opened by the Purchase Committee on specified place, date & time to be intimated to bidders in advance. Before opening the price bid, demonstration of item is essential. No additional time will be provided for arrangement of sample for demonstration. Sample of the firm declared successful shall be retained by unit.
7. Successful firm will have to enter into an agreement after depositing a sum of 10% of the total value of the stores as security money in the form of Postal Savings Pass Book/NSC/Bank Guarantee duly pledged in favour of Commandant, SDRF, Bihta, Patna.
8. The firm should give details of items wise after-sale service to be provided by them.
9. Payment for delivered items will be made after receiving OK report from the inspection Committee. The rules applicable for GST and income tax deductions would be followed.
10. The firm whose quotation is approved shall be issued memo of Acceptance of the tender (A/T). Purchase order shall be issued only after the firm enters into agreement with the undersigned. Terms & Conditions of the agreement shall be intimated in the A/T.
11. The firm will have to arrange training programme for unit personnel at least for one week at SDRF Campus Bihta, Patna for minor repair and maintenance of OBMs & inflatable boats.

12. Product leaflets or Browser should be submitted on line in technical bid which can state that the product is meeting the specification. Relevant portion may be marked or underlined.

13. The equipment quoted in tender for purchase by the unit must have guarantee/warranty for one year from the date of acceptance of store by unit. Guarantee/Warrantee will be comprehensive i.e inclusive of all consumables and spares of all types (except fuel) and will be implemented on site.

Terms for Guarantee/Warrantee:

- (a) After intimation of defect to firm maximum time of repair/replacement of equipment will be 15 days.
- (b) Penalty for non repair beyond the repair time i.e 15 days will be @ 0.5% per week or part thereof of the cost of the goods/stores/equipment/article in case the store is rendered non-operational due to defect.

14. Commandant, SDRF, Bihar, Patna reserves the right to reject any or all the tender partially a fully without assigning any reason.

15. SUBMISSION OF TENDER (TWO-BID SYSTEM)

16. TENDERING PROCESS:

(a) SDRF invites proposals from interested bidders through e-procurement process for procurement of 100 Nos Inflatable boats alongwith 25HP OBM.

(b) Bidders need to submit the General, Pre-qualification and Technical details as part of General cum technical bid and Commercial bid through [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in)

(c) Bidder needs to submit separate General cum Technical bid and commercial bid for the procurement.

17. e-PROCUREMENT PROCESS RELATED INSTRUCTIONS:  
Submission of Proposals (Through electronic mode only)

(a) The bidder shall submit his bid/tender on e-procurement platform at [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in).

(b) The bidder must have the Class II/III Digital Signature Certificate (DSC) and e-Tendering user-id of the e-procurement website before participating in the e-tendering process. The bidder may use their DSC if they already have the DSC. They can also take DSC from any of the authorized agencies. For user-id they have to get registered themselves on e-procurement website [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in) and submit their bids online on the same. Offline bids shall not be entertained by the Tender Inviting Authority for the tenders published in e-procurement platform.

(c) The bidders shall submit their eligibility and qualification details, Technical bid, Financial bid etc., in the online standard formats given in e-procurement web site at the respective stage only. The bidders shall upload the scanned copies of all relevant certificate, documents etc in support of their eligibility criteria/technical bids and other certificate/documents in the e-procurement web site. The bidder shall digitally sign on the supporting statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. The bidder shall attach all the required documents for the specific tender after uploading the same during the bid submission as per the tender notice and bid document.

(d) All the required documents should be attached at the proper place as mentioned in the e-forms otherwise the tender of the bidder will be rejected.

(e) Tender processing Fee (TPF) to be paid through e-payment mode (i.e. NEFT/RTGS, Net Banking Credit/Debit Card) only.

- (f) Earnest Money Deposit (EMD) worth 15,00,000 (Fifteen Lakh) can be paid through manual mode in the form of Bank draft/bank Guarantee. The original hardcopy of the EMD should be submitted in the tendering authority office before the time of opening of Technical Bid. EMD will be returned back to the unsuccessful bidder. The EMD is not liable to earn any Interest.
- (g) The tender opening will be done online as per schedule.
- (h) Any corrigendum or date extension notice will be given on the e-procurement website only.
- (i) For support related to e-tendering process, bidders may contact at following address “e-Procurement HELP DESK, First Floor, M/22, Bank of India Building, Road No – 25, Sri Krishna Nagar, Patna – 800001 PH. No: 0612-2523006, Mob – 7542028164” or may visit the link “Vendor Info “at [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in).

Note: Bid along with necessary online payments must be submitted through e-procurement portal [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in) before the date and time specified in the NIT. The department/Tendering Authority doesn't take any responsibility for the delay/Non submission of Tender/ Non Reconciliation of online Payment caused due to Non-availability of Internet Connection, Network Traffic/Holidays or any other reason.

## 18. GENERAL CUM TECHNICAL BID

The General cum technical bid should not be furnished with commercial quote. The General cum technical bid should contain the following:

- (a) e-tender processing charges of Rs 1000/- + GST @ 18% to be paid through e-payment only.
- (b) EMD of Rs 15,00,000/- (Rs Fifteen Lakh ) to be deposited in the form of Demand Draft (DD)/Bank Guarantee from a Scheduled bank.
- (c) Duly filled in Annexure – A (Profile of the company) with relevant details and enclosures.
- (d) Duly filled in Annexure – B regarding compliance of the specification of the item.

- (e) Digitally signed Tender proposal along with credentials and supporting documents.
- (f) Authorization letters from authorized signatory of Original Equipment Manufacturers (OEMs) for OBMs to be provided.
- (g) Company Profile
- (h) Order copies with work completion proving document.
- (i) Last Three years IT returns
- (j) Last Three years Audited Financial document.
- (k) Technical Datasheet of the quoted products with OEMs certification.
- (l) Compliance Certificate for the Technical Specification of items from OEMs.
- (m) PAN of the participating firm.
- (n) EMD.
- (o) GST registration in Bihar certificate.
- (p) Technical specification and Brochures in any for the item indicating the specification (Annexure – B).
- (q) Duly signed tender document.

## 19. **COMMERCIAL BID**

The commercial Bid in the prescribed e-form should be filled up & uploaded on the website [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in). Commercial bid will only be considered of that firm whose inflatable boat and OBM will be successfully meet the specification during demonstration.

- (a) The bid document should contain particulars like name and address of the bidder, cost including all taxes alongwith breakup of taxes.
- (b) The tender quote should be valid for minimum for a period of 180 days from the date of opening of the Commercial Bid of the Tender.
- (c) The quote for each item with make, model should be indicated in Commercial bid.
- (d) Submission of any additional documents will not be entertained after tender opening unless required by the purchaser. The website will not accept any document after closure of submission schedule.
- (e) **Only one make product is allowed to be quoted. The bid of bidder quoting optional make for any line item will summarily be rejected.**

## 20. **OPENING OF TENDER**

- (a) The tenders received on the date and time specified in the tender document will be opened by the Purchase Committee to be detailed by Disaster Management Dept. on the website [www.eproc.bihar.gov.in](http://www.eproc.bihar.gov.in). It can be seen by the authorized bidders who hold the digital signature on behalf of their companies.
- (b) The Technical bids of bidders, which are correct and qualified in all respects, will be evaluated and those who qualify on the basis of technical bid will be informed through the decision on the website and for demonstration of Inflatable rubber boats and its 25 HP OBM. Commercial bid will be opened for only those firm who qualifies in demonstration. The sample used by successful bidder will be retained by unit. The date and time of opening of their commercial bids will be informed later. The decision of the Commandant, SDRF shall be final.

## 21. **Forfeiture of Earnest Money Deposit:**

If the successful bidder fails to act according to tender conditions in any aspect or backs out after the tender was accepted, the EMD will be forfeited by the unit.

## 22. REJECTION CRITERIA

(a) Tender should be submitted on line with the official tender document.

(b) Tenders submitted without furnishing any of the required details specified in Annexure – A and B will summarily be rejected.

(c) Tenders should be submitted with digitally signed document and seal of the bidder in the tender document and also in the Technical and Commercial e-forms in separate schedules. The Tenders received without being duly certified by the bidder for fully accepting the terms and conditions of the tender and for abiding by the rules laid down will summarily reject.

(d) The tenders submitted without EMD will summarily be rejected. No exemption from submission of EMD is allowed. Since OBM is integral part which is not manufactured in India and only Inflatable boats are manufactured in India. Hence NSIC firm will also deposit EMD.

(e) Tenders submitted without the specification for each item quoted for compliance statement in the technical bid will summarily be rejected.

(f) Tenders with incomplete information, subjective and conditional offers/bidder's own terms and conditions including partial offers will be liable for rejection.

(g) The Tenders submitted with incomplete details against the required specification in Technical bid will summarily be rejected.

(h) In addition to the above rejection criteria, non-compliance in any aspect of this tender document will make the tender liable for rejection.

## 23. SPECIAL TERMS

Purchase Committee reserves the right to negotiate for further reduction of price and to ensure make/quality/specification of materials to be supplied. Commandant, SDRF reserves the right to increase or decrease the quantity requirements. Commandant, SDRF also reserves the right to scrap the tender at any point of time without giving any clarification.

#### 24. **ACCEPTANCE OF TENDER AND WITHDRAWALS**

(a) The final acceptance of tender is entirely vested with Commandant, SDRF who reserves the right to accept or reject the tenders without assigning any reason. There is no obligation on the part the Battalion to communicate with the rejected bidders. After acceptance of the Tender terms, the bidder shall have no right to withdraw his Tender or claim higher price.

(b) The tender accepting authority may also reject the tenders for reasons such as changes in the scope of procurement with advanced technology equipment, lack of anticipated financial resources, court orders, accident or calamities and other unforeseen circumstances.

#### 25. **CONTRACT AGREEMENT**

(a) The successful bidder will be informed by a provisional order to execute an agreement on a stamp paper to fulfil the contract as enclosed in the format within 15 days from the date of issue of A/T. The non-execution of contract agreement within the prescribed period will entail cancellation of the order and EMD will be forfeited by considering the bidder as not responded.

(b) Expenses incidental to the execution of the agreement shall be borne by the Bidder.

(c) The conditions stipulated in the contract agreement form should be strictly adhered to and any violation of the conditions will entail termination of the contract without prejudice to the right of PURCHASER and to recover any consequential loss from the successful Bidder.

#### 26. **SECURITY DEPOSIT**

The successful Bidder will remit the Security Deposit of 10% of the order value in the terms of Bank draft Guarantee/ Postal Saving Pass Book/NSC form a Nationalized/Scheduled Bank drawn **in favour of Commandant, SDRF, Bihta, Patna, payable at Patna** and should be enclosed with the contract agreement within fifteen (15) days from the date of receipt of the A/T.

(a) The Security Deposit remitted by the Bidder will be returned after the expiry of warranty period and on the performance satisfaction by the user.

(b) The Earnest Money Deposit may be forfeited if the bidder fails to remit Security Deposit within 15 days or to act on the tender conditions or to complete the project.

## **27. SUPPLY, INSTALLATION AND COMMISSIONING**

(a) The Supply of equipment including all accessories should be as per the specifications mentioned in the tender document.

(b) The equipment and its related accessories should be supplied, installed and commissioned at SDRF Campus, Lai road, Besides HPCL Campus, Bihta, Patna , PIN – 801103.

(c) All relevant documents such as operation and user manuals, schematic and circuit diagram, service manual including trouble shooting shall be supplied by the Bidder for each equipments at free of cost.

(d) If the supply, installation and commissioning of the equipment are not completed as specified from the date of issue of A/T, Commandant, SDRF shall have the right to cancel the order and also take any such action which will be deemed fit according to the circumstances.

28. One week training will be provided at unit campus Bihta by the company's engineer to SDRF pers for care, maintenance and minor repair of Inflatable boat and OBMs.

## **29. LIQUIDITY DAMAGES FOR NON-FULFILMENT OF PURCHASE ORDER**

Penalty will be levied at 1.5% per week on the total value of the project implementation subject to a maximum of 6% for four weeks for any delay in supply, installation and commissioning beyond the allowed timeline. Any unreasonable delay beyond the allowed timeline in supply of boats and OBMs may entail termination of the contract, forfeiture of PBG and blacklisting of Bidder.

### 30. IMPLEMENTATION TIMELINE

Date of issue of A/T	D1
Signing of Contract Agreement(D2)	D1 + 2 WEEKS = D2
Supply of ordered items(D3)	D2 + 8 WEEKS = D3
Installation and commissioning of equipment(D4)	D3 + 2 WEEKS = D4
Acceptance of the Boats including Trial run (D5)	D4 + 2 WEEK = D5

Note – Required Petrol (MS) and lubricants for trail run will be provided by the firm. Store will only be accepted after successful trail of boats. It is responsibility of the firm to arrange demonstration /trial of boats supplied by them. Unit will not be responsible for any delay in trial if any.

## CHAPTER 3: ANNEXURE – A

### 31. PROFILE OF THE COMPANY

The bidder should furnish the following details to be pre-qualified for the commercial bid opening.

Ser No	Details	Remarks
1.	Name of the organization with year of incorporation	
2.	Nature of Organization form	
3.	Address of the Registered office of Bidder with Phone and Fax number	
4.	GST registration No	
5.	Income Tax clearance certificate(Latest to be enclosed)	
6.	Audited Balance sheet and Income statements of the recent three years.	
7.	Project person who will be handling the above Project.(Name, qualification and Contract Phone Number)	

8.	Name of the Government sector and other Organization, to whom the supply installation and commissioning of same item in the preceding three years (enclose copy of purchase orders and other documents)	
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Note: All the details above with supporting documents must be provided by the Bidder.

32. CHAPTER 4: **ANNEXURE – B**

**Inflatable rubber Boat**

<b>Specification</b>	<b>Compliance (Complied/not complied)</b>	<b>Variation of any</b>	<b>Remarks</b>
Make			
Model			
The boat shall be inflatable with air pressure by foot pump and Electric Pump(12 Volts DC)			
The boat shall be suitable for 7-10 (Seven to ten) persons or for 2000 lbs weight			
The boat shall have reinforced strips under air chamber and keel rubbing strake for extra strength under the main air chamber			
The design of the boat shall be such that, it shall have minimum 5(five) air chamber in main hull and 6 <sup>th</sup> air chamber shall be in the Inflatable keel.			
The hull, air tubes (chambers), keels shall be made from Hypalon with 1670 DENIER and 1500 GSM. The fabric to carry an approval of IRS/BSMA(British standard Manufacturer Association )16 or IMO(International Maritime Organization) LSA (Life saving Appliances) regulation or equivalent			

The boat shall be provided with FRP(FRP) coated Transom to form a water proof cocoon.			
The exterior size of the boat shall be min 4200mm x 1800mm			
The interior size of the boat shall be min 2925mm x 1000mm			
The deflated size hull shall be approx 1150 x 650 x 350mm and floor board shall be 775 x 1000 x 150mm			
The diameter of the tube shall be min 19"			
Three shall be inflatable keel of 7" diameter for stability in sea and swift water rescue			
The seams of the boat shall be quadruple overlap			
The air valves shall be one way type of approved type and make.			
There shall be 5/8" grab line along sides for safety			
The weight of boat without floor board & OBM shall not be more than 187 lbs.			
The floor board shall be interlocking type of polyethylene material/marine plywood with fibre glass reinforced plastic coating with carry bag.			
The boat shall have round/conical pontoons for rapid planning			
There shall be extra stainless steel "D" rings for towing.			
The boat shall have four carrying handles and front lifting handles.			
There shall be strake around hull and under keel for extra protection.			
There shall be two layers of material on lower tubes for better abrasion and puncture resistance			
There shall be two self bailing drain valves.			

The design of the hull shall be wide beam type for better stability.			
The boat shall be supplied with carrying bag.			
The boat shall be supplied with Bow storage bag and repair kit.			
The boat shall have quick attachment for OBM.			
There shall be two paddle provided for emergency rowing.			
The colour of boat shall be orange.			
Accessories :- Battery – 1 no. Foot pump -2 nos. Floor board – 1 set, Paddle of aluminium handle and moulded plastic blades – 2 nos. Anchor with rope-1 no. (Made of tear resistant coated nylon fabric), Life jacket-10 nos & Life buoys - 2 nos. IRS/MMD (Mercantile Marine Department)/ SOLAS (Safety of life at sea) approved, Battery operated pump-1 no, First aid box -1 no.			
Repair Kit: Rubber Patches – 10 nos. Adhesive - ½ Kg, Roughening Tolls – 2 nos. Air valves 2 nos. Hose clamp – 4 nos. OBM impeller – 1 no. Impeller key – 2 nos, Spark Plug - 2 nos, Starting Rope – 2 nos, OBM fuel injector kit -1 no, Water pump repair kit-1 nos. The items to be new, unused and suiting to design and specifications.			
The drawing, design, manufacturing materials and the manufacturing firms to be approved by LRS/IRS (Liyod s Register of shipping/Indian Registered of Shipping). Approved drawing of general arrangement of boat must be enclosed will tender Motor Boats should be approved by LRS/IRS.			

## OBM

<b>Specification</b>	<b>Compliance Complied/not complied</b>	<b>Variation of any</b>	<b>Remarks</b>
Make MERCURY/ MARINER			
Model 25 HP Four stroke.			
The boat shall be provided with outboard motor which can be quickly attached whenever required.			
The engine of the out board motor shall be four strokes, three cylinder in-line gasoline engine.			
The capacity of OBM should be developing 25 HP			
The RMP of the engine shall be 5000-6000			
The engine shall have electronic fuel injection system			
The engine cooling system shall be water cooled type with Thermostat.			
The gear ratio shall be 2.00:1 or better.			
The trim system shall be manual type.			
The exhaust system shall be through prop.			
The lubrication system shall be wet sump with pressure.			
The engine shall be Ultra low emission ratings.			
<b>The length of engine shaft shall be 20 inch ( long engine shaft)</b>			
The engine and drive line shall be fitted in enclosed housing to protect from sea water /river canal water.			

Note: - Please refer website data sheet of Technical bid attached separately with the tender document.

Commandant  
SDRF, Bihta,  
Patna

## TECHNICAL BID SHEET

<b>Name of Department</b>		<b>State Disaster Response Force (SDRF) Disaster Management Department, Patna, Bihar</b>
<b>NIT No</b>		<b>01/e -proc/SDRF/2018-19</b>
<b>Name of Work</b>		<b>Procurement of 100 Nos of Inflatable rubber boats alongwith 25 HP OBMs.</b>
<b>SI No.</b>	<b>Details</b>	<b>To be Filled in color cells by Contractor</b>
1.	Name of the Contractor /Supplier	
2.	Address of the Contractor /Supplier	
3.	GST registration in Bihar ( Certificate be enclosed)	
4.	Bid Processing Fee	Rs 1000 + GST @ 18% through e payment only else bid will be rejected
5.	Tender form fee	Nil
6.	Self declaration by the bidder that they have not been barred by any PSU/Govt in doing business	
7.	Submission of IRS work approval certificate	
8.	Audited Annual Financial turnover of last three year ending 31 Mar 2017(average turnover should not be less than 5 Crore) Balance sheet and profit & loss account for last three financial year be enclosed.	
9.	Up to date Income tax return of preceding 3 years (IT returns should have stamp and signature of concerned firm)	
10.	Product leaflets/Browser/Test certificates	
11.	Comprehensive guarantee/warranty for one year from date of acceptance of store	
12.	EMD of Rs 15,00,000/- (Fifteen Lakh) be deposited in the form of Bank Guarantee/Demand draft (DD) from a scheduled bank	
13	Annexure B ( to be filled in)	

## Annexure B - Inflatable rubber Boat

Specification	Compliance (Complied/not complied)	Variation of any	Remarks
Make			
Model			
The boat shall be inflatable with air pressure by foot pump and Electric Pump (12 Volts DC)			
The boat shall be suitable for 7-10 (Seven to ten) persons or for 2000 lbs weight			
The boat shall have reinforced strips under air chamber and keel rubbing strake for extra strength under the main air chamber			
The design of the boat shall be such that, it shall have minimum 5(five) air chamber in main hull and 6 <sup>th</sup> air chamber shall be in the Inflatable keel.			
The hull, air tubes (chambers), keels shall be made from Hyplon with 1670 DENIER and 1500 GSM. The fabric to carry an approval of IRS/BSMA(British standard Manufacturer Association ) 16 or IMO(International Maritime Organization) LSA (Life saving Appliances) regulation or equivalent			
The boat shall be provided with FRP (FRP) coated Transom to form a water proof cocoon.			
The exterior size of the boat shall be min 4200mm x 1800mm			
The interior size of the boat shall be min 2925mm x 1000mm			
The deflated size hull shall be approx 1150 x 650 x 350mm and floor board shall be 775 x 1000 x 150mm			
The diameter of the tube shall be min 19"			
Three shall be inflatable keel of 7" diameter for stability in sea and swift water rescue			
The seams of the boat shall be quadruple overlap			
The air valves shall be one way type of approved type and make.			
There shall be 5/8" grab line along sides for safety			
The weight of boat without floor board & OBM shall not be more than 187 lbs.			

The floor board shall be interlocking type of polyethylene material/marine plywood with fibre glass reinforced plastic coating with carry bag.			
The boat shall have round/conical pontoons for rapid planning			
There shall be extra stainless steel "D" rings for towing.			
The boat shall have four carrying handles and front lifting handles.			
There shall be strake around hull and under keel for extra protection.			
There shall be two layers of material on lower tubes for better abrasion and puncture resistance			
There shall be two self bailing drain valves.			
The design of the hull shall be wide beam type for better stability.			
The boat shall be supplied with carrying bag.			
The boat shall be supplied with Bow storage bag and repair kit.			
The boat shall have quick attachment for OBM.			
There shall be two paddle provided for emergency rowing.			
The colour of boat shall be orange.			
Accessories:- Battery – 1 no. Foot pump -2 nos. Floor board – 1 set, Paddle of aluminium handle and moulded plastic blades – 2 nos. Anchor with rope-1 no. (Made of tear resistant coated nylon fabric), Life jacket-10 nos & Life buoys - 2 nos. IRS/MMD (Mercantile Marine Department)/ SOLAS (Safety of life at sea) approved, Battery operated pump-1 no, First aid box -1 no.			
Repair Kit: Rubber Patches – 10 nos. Adhesive - ½ Kg, Roughening Tolls – 2 nos. Air valves 2 nos. Hose clamp – 4 nos. OBM impeller – 1 no. Impeller key – 2 nos, Spark Plug - 2 nos, Starting Rope – 2 nos, OBM fuel injector kit -1 no, Water pump repair kit-1 nos. The items to be new, unused and suiting to design and specifications.			
The drawing, design, manufacturing materials and the manufacturing firms to be approved by LRS/IRS (Liyod s Register of shipping/Indian Registered of Shipping). Approved drawing of general arrangement of boat must be enclosed will tender Motor Boats should be approved by LRS/IRS.			

## Annexure B - OBM

Specification	Compliance Complied/not complied	Variation of any	Remarks
Make MERCURY/ MARINER			
Model 25 HP Four stroke.			
The boat shall be provided with outboard motor which can be quickly attached whenever required.			
The engine of the out board motor shall be four strokes, three cylinder in-line gasoline engine.			
The capacity of OBM should be developing 25 HP			
The RMP of the engine shall be 5000-6000			
The engine shall have electronic fuel injection system			
The engine cooling system shall be water cooled type with Thermostat.			
The gear ratio shall be 2.00:1 or better.			
The trim system shall be manual type.			
The exhaust system shall be through prop.			
The lubrication system shall be wet sump with pressure.			
The engine shall be Ultra low emission ratings.			
The length of engine shaft shall be 20 inch ( long engine shaft)			
The engine and drive line shall be fitted in enclosed housing to protect from sea water /river canal water.			

14.	Authorised dealership the OEM for OBMs to be provided	
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# FINANCIAL BID FORM

**STATE DISASTER RESPONSE FORCE (SDRF)  
DISASTER MANAGEMENT DEPARTMENT, PATNA, BIHAR**

NIT No-	01/e -proc/SDRF/2018-19
Name of Work	Procurement of 100 Nos of Inflatable rubber boat with 25 HP OBMs
<b>FINANCIAL BID FORM TO BE FILLED IN BY BIDDER</b>	
Name of the Bidder	
Address of the Bidder	
<b>1</b>	Cost of each Inflatable rubber boat with 25 HP OBMs(Including all taxes) (Rate to be quoted inclusive of all taxes/freight charge and to be delivered at consignee location ie SDRF campus, Bihta, Patna.)

Note: - Please refer website data sheet of financial bid attached separately with the tender document.

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