

**GOVERNMENT OF MIZORAM
DIRECTORATE OF DISASTER MANAGEMENT & REHABILITATION**

No.B.13011/4/2016-DTE(DMR): Dated Aizawl, the 26th October, 2017.

To

The Director,
Information & Public Relation,
Mizoram. Aizawl.

Subj: **Publication of Seal Tender Notice in Local Daily Newspaper.**

Sir,

Please find enclosed herewith 5 (five) copies of Tender Notice for supply of Search & Rescue equipments for State Emergency Operation Center (SEOC) and District Emergency Operation Centre (DEOC) with a request to arrange publication of the same in 3(Three) leading Local Newspaper having wide circulation in three consecutive issues covering 10cmx8cm size.

Enclo : As above

Sd/-
(N.CHAKHAI)
Director,
Disaster Management & Rehabilitation
Mizoram ; Aizawl.

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DIRECTORATE OF DISASTER MANAGEMENT & REHABILITATION**

No.B.13011/4/2016-DTE(DMR): Dated Aizawl, the 26th October, 2017.

SHORT QUOTATION NOTICE

Seal tender are invited on behalf of the Governor of Mizoram from the Manufactures/ Dealer/ Authorized agents for the supply of the items of essential Search and Rescue equipments for State Emergency Operation Centre(SEOC) and District Emergency Operation Centre(DEOC) which will be received by the Director, Disaster Management & Rehabilitation, Mizoram, Aizawl upto 16.11.2017 at 12 noon. The quotation will be opened on the same day at 1:00 PM in the office chamber of Director, DM&R, Chawnpui.

Tender documents containing detailed terms and conditions may be obtained from the Office of Directorate of Disaster Management & Rehabilitation, Mizoram during office working hours and also from the website **www.dmr.mizoramdmr.gov.in/page/quotation.html**.

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Director,
Disaster Management & Rehabilitation
Mizoram ; Aizawl.

**GOVERNMENT OF MIZORAM
DIRECTORATE OF DISASTER MANAGEMENT & REHABILITATION**

Dated Aizawl, the 26th October, 2017

SEAL TENDER

No.D.19015/1/2015-DTE(DMR) : Seal Tender are invited on behalf of the Governor of Mizoram from the Manufacturer/Dealers/Authorized Agents for supply of the following items of Search & Rescue equipments for State Emergency Operation Centre (SEOC), District Emergency Operation Centre (DEOC) which will be received by the Director, Disaster Management & Rehabilitation, Mizoram Aizawl upto 16th November, 2017 at 12:00 Noon. The quotation will be opened on the same day at 1:00 pm in the office chamber of Director, DM&R.

SI No	Description	Qty	Remarks
1	OUTBOARD MOTOR (OBM)	8	
2	DRONES(UAV)	9	
3	REMOTE AREA LIGHTING SYSTEM (RALS)	10	

TERMS AND CONDITION

1. The samples or Brochures bearing all features of whole items should be submitted along with the tender.
2. Tender should be accompanied by the under mentioned Certificate and documents :
 - (a) Latest House Tax Payee Certificate issued by Revenue Department for Tribal Tenderers.
 - (b) GST Registration Certificate for Tenderer from.
 - (c) Latest Professional Tax Clearance Certificate issued by Taxation Department / the appropriate District Council Authority for Tenderer from Mizoram. In case of any Firm is not an assesses of Professional Tax a certificate to the effect duly issued by the Competent Authority should be attached with the Tenderer.
 - (d) Court Fee Stamp worth Rs.10/-.
3. Earnest money of 2% of the quoted price of each of the items for Non Tribal Tenderers and 1% of the quoted price of each of the items for Tribal Tenderers should be deposited in the form of Banker Cheque/FDR/Bank Guarantee/Demand Draft issued by Nationalised Bank, or any Bank recognized or sponsored by Government duly pledged in favour of the Director, DM&R Govt. of Mizoram, Aizawl & the same should be submitted along with the Quotation. Quotations without FDR/Bank Guarantee/Demand Draft and other necessary documents hereafter mentioned will not be accepted. Earnest Money will be liable to forfeiture in case of short supply or supply of inferior quality of the quotation items.
4. The Tenderers should quote their rates both in figure and in words inclusive of all taxes for each of the items and should be FOR Aizawl for all items. Any correction must be initialed with date, otherwise the quotation will be treated as invalid.
5. The cover of the Quotations should be prominently subscribed as “SEALED TENDER FOR SUPPLY OF SEARCH & RESCUE EQUIPMENTS and should be addressed to the Director, Disaster Management & Rehabilitation Department, Govt. of Mizoram, Aizawl. In case, the quotation is sent by postal service, it should be registered with acknowledgement due. The Director of Disaster Management & Rehabilitation, Government of Mizoram will not be responsible for delay or late receipt of the tender document.
6. The Department is not bound to accept the lowest rates, and reserves the right to accept or reject any quotations without assigning any reason.
7. Successful Tenderers should be able to supply the materials within one month or specified time by the Department or DM&R. They should supply the materials exactly of the same make, type, quality, etc. of the sample submitted.
8. The materials supplied by the suppliers will be physically checked by appointed officers before acceptance. Payment of bills will be made only on acceptance and countersignature on the body of the bill by the accepting officer.

9. In the event of any dispute or controversy relating to the selection of supplier/materials supplied, the decision of the Secretary to Government of Mizoram, Disaster Management & Rehabilitation Department shall be final and binding.
10. Quotation submitted without following the above terms & conditions shall be summarily rejected.
11. Separate envelope should be used for TECHNICAL BID as well as for PRICE BID. The word "TECHNICAL BID/PRICE BID" shall be prominently marked on the top of the envelope separately. Both these bids shall further be put in one envelope and sealed properly before putting in the tender box duly super scribed. Tenderer(s) shall indicate complete specifications and all features of the items.
12. The Technical Bids will be opened first on 16th November, 2017 and the Price Bids will be opened only after scrutiny of technical bid and technical evaluation of the system.
13. The tenderer can remain present himself or his authorize representative at the time of opening of tender.
14. A copy of terms and conditions duly signed by the tenderer, as a token of acceptance of the same should be attached alongwith the tender.
15. The tendering firm will also submit a certificate that the product offered by them is as per technical specifications of the tender.
16. All the bidders whose technical bid is declared qualified by the Purchase Committee will demonstrate their product before the Technical Evaluation Committee at a short notice.
17. Only manufacturers, authorized distributors/authorized dealers can participate in the tender, the firm should submit proof of their manufacturing, authorized dealership/distributor. This is subject to verification if necessary.
18. Incomplete tender/conditional tenders will not be accepted.
19. All SSI units registered with NSIC/DGS&D for this item as per specification are exempted from the EMD. They have to enclose valid registration document/exemption certificate with their tender.
20. Tenderer would not be permitted to alter or modify their bids after expiry of the deadline for receipt of Bids.

21. The quoted price must be inclusive of all taxes such as cGST and other charges etc. No claim for taxes/charges will be entertained at a later stage. Nothing over and above the quoted price would be payable to the successful bidder. Tenderer must quote the net price both in words as well as in figures. Any over writing/cutting etc. render the tender invalid.
22. The firm whose rates are accepted will have to deposit 2% of the total cost of the item as Performance Security in the shape of Bank Draft/Bank Guarantee FDR in favour of Director, DM&R Department, Mizoram before the supply order is placed to the firm. In case the firm does not complete the supply within the delivery period, liquidated damage charges will be charged @ 2% of total cost per month of the item and action will be taken to blacklisting the firm and forfeiture of its Security Money. No interest will be given on Security Money.
23. In case the firm fails to deposit the security money, the EMD of the firm will be forfeited.
24. The rates will be valid till supply of the item is completed, in all respect.
25. In case the firm fails to supply the items within stipulated delivery period, the item will be procured from the open market and the difference of cost, if any, will be recovered from the Security money and pending bills of the defaulting firm, by calling explanation after issuing notice.
26. The quantity of the items mentioned in the tender notice can be increased or decreased at any stage till the delivery of consignment is completed.
27. The payment will be made on receipt/acceptance of store in good condition as per prescribed specification. No advance payment will be made.
28. No claim for interest in case of delayed payment will be entertained by the Department.
29. The Purchase Committee reserve the right to relax any terms and condition in the government interest with the approval of competent authority.
30. The Purchase Committee reserve the right to reject any tender or all tenders without assigning any reason thereof.
31. In case of violation of any clause of contract/agreement deed, the explanation of the firm can be called by issuing show cause notice, if the reply is not found satisfactory. Security Money can be forfeited as well as action for blacklisting can also be taken prior to taking any legal action.

32. The tender will be rejected straight way without assigning any reasons if the firm involves in any criminal case, declared blacklisted by any Government/Semi-government Department/Agencies etc.
33. In case of any differences, the firm can be called for negotiation to patch up the differences on table prior to approaching court.
34. The bidder should carry a warranty/guarantee of subjected store for a period of at least one year.
35. In case of any litigation, the legal jurisdiction for settlement shall be Aizawl only.

Sd/-
(N.CHAKHAI)
Director,
Disaster Management & Rehabilitation
Mizoram : Aizawl.

I. OUT BOARD MOTOR(OBM)

1. **ROLE :** The out Board Motor (OBM) proposed for procurement is required for used on board inflatable craft (six to eight men capacity)
2. **PRINCIPAL COMPONENTS OF EQUIPMENTS:** The OBM should comprise of the following:-
 - (a) The main OBM Engine
 - (b) Upper OBM cover
 - (c) Integral propeller with one spare
 - (d) Flexible fuel tanks
 - (e) Fuel connector pipe
 - (f) OBM repair kit
 - (g) Outboard attachment cradle
 - (h) Water Proof OBM Cover
3. **GENERAL SPECIFICATIONS :** The general specifications should be as follows :-

SI No.	CHARACTERISTICS	Specifications
1	STROKE	30HML Medium Shaft
2	ENGINE TYPE	2-Stroke, In-line 2
3	DISPLACEMENT	496.0 cc
4	BORE X STROKE	59.5 x 59.5 mm
5	MAX RPM	5000-5500
6	LUBRICATING SYSTEM	Pre-mixing
7	FUEL MANAGEMENT	Carb
8	IGNITION	CDI
9	STARTER SYSTEM	Manual
10	LIGHTING COIL	12V - 80W (MH)
11	ALTERNATOR OUTPUT	12V - 6A with rectifier (W)
12	OPERATION METHOD	Remote control (W), Tiller handle (MH)
13	TRIM & TILT METHOD	Manual tilt
14	FUEL TANK CAPACITY	24.0 L
15	GEAR RATIO	2.00 : 1 or better
15	HORSE POWER RATING	25 HP

4. **SAFETY FEATURES :-**

- (a) The equipments should have a watertight seal to prevent water ingress in case of a water splash on the equipment.
- (b) Provision of a safety clip for the driver to cut off the engine.
- (c) Adequate protection to the propeller against underwater rocks.
- (d) Should incorporate adequate safety feature to ensure complete safety in storage, handling, carriage, etc.

5. **SPARES:**

- a) Complete list of one year on Board Spares to be provided
- b) Complete list of all spare parts to be provided.

6. **Documentation:** The following documents are to be provided

- (a) Operational Manual giving details of maintenance and repair instructions.
- (b) Test and trial report, if any along with inspection certificate.

7. **STATUS OF SYSTEM. :** The present status of the system (that is, whether it is in service in the firms country, or is in the service abroad, or is at developmental stage) be stated.

II - DRONES(UAV):

1) Technical Specification:

I-AIRCRAFT

Weight (Battery & Propellers Included)	1368 g
Diagonal Size (Propellers Excluded)	350 mm
Max Ascent Speed	S-mode: 6 m/s P-mode:5 m/s
Max Descent Speed	S-mode:4 m/s P-mode:3 m/s
Max Speed	S-mode: 45 mph (72 kph) A-mode: 36 mph (58 kph) P-mode: 31 mph (50 kph)
Max Tilt Angle	S-mode:42° A-mode:35° P-mode:25°
Max Angular Speed	S-mode: 250°/s A-mode: 150°/s
Max Service Ceiling Above Sea Level	19685 feet (6000 m)
Max Wind Speed Resistance	10 m/s
Max Flight Time	Approx. 30 minutes
Operating Temperature Range	32° to 104°F (0° to 40°C)
Satellite Positioning Systems	GPS/GLONASS
Hover Accuracy Range	Vertical: ±0.1 m (with Vision Positioning) ±0.5 m (with GPS Positioning) Horizontal:

±0.3 m (with Vision Positioning)
±1.5 m (with GPS Positioning)

II-VISION SYSTEM

Vision System	Forward Vision System Downward Vision System
Velocity Range	≤31 mph (50 kph) at 6.6 ft (2 m) above ground
Altitude Range	0 - 33 feet (0 - 10 m)
Operating Range	0 - 33 feet (0 - 10 m)
Obstacle Sensory Range	2 - 98 feet (0.7 - 30 m)
FOV	Forward: 60°(Horizontal), ±27°(Vertical) Downward: 70°(Front and Rear), 50°(Left and Right)
Measuring Frequency	Forward: 10 Hz Downward: 20 Hz
Operating Environment	Surface with clear pattern and adequate lighting (lux>15)

III-REMOTE CONTROLLER

Operating Frequency	2.400 - 2.483 GHz
Max Transmission Distance	2.400 - 2.483 GHz (Unobstructed, free of interference) FCC: 4.3 mi (7 km) CE: 2.2 mi (3.5 km) SRRC: 2.5 mi (4 km)
Operating Temperature Range	32° to 104°F (0° to 40°C)
Battery	6000 mAh LiPo 2S
Transmitter Power (EIRP)	2.400 - 2.483 GHz FCC: 26 dBm CE: 17 dBm SRRC: 20 dBm MIC: 17 dBm
Operating Current/Voltage	1.2 A@7.4 V

Video Output Port	GL300E: HDMI GL300C: USB
Mobile Device Holder	GL300E: Built-in display device (5.5 inch screen, 1920×1080, 1000 cd/m ² , Android system, 4 GB RAM + 16 GB ROM) GL300C: Tablets and smart phones

IV- Integrated 1080p Display

A 5.5 “ 1080p screen integrated w offers 1000 cd/m²

V-INTELLIGENT FLIGHT BATTERY

Capacity	5870 mAh
Voltage	15.2 V
Battery Type	LiPo 4S
Energy	89.2 Wh
Net Weight	468 g
Charging Temperature Range	41° to 104°F (5° to 40°C)
Max Charging Power	100 W

VI-GIMBAL

Stabilization	3-axis (pitch, roll, yaw)
Controllable Range	Pitch: -90° to +30°
Max Controllable Angular Speed	Pitch: 90°/s
Angular Control Accuracy	±0.02°

VII-CAMERA

Sensor	1’’ CMOS Effective pixels: 20M
Lens	FOV 84° 8.8 mm/24 mm (35 mm format equivalent) f/2.8 - f/11 auto focus at 1 m - ∞

ISO Range	<p>Video: 100 - 3200 (Auto) 100 - 6400 (Manual)</p> <p>Photo: 100 - 3200 (Auto) 100- 12800 (Manual)</p>
Mechanical Shutter Speed	8 - 1/2000 s
Electronic Shutter Speed	8 - 1/8000 s
Image Size	3:2 Aspect Ratio: 5472 × 3648 4:3 Aspect Ratio: 4864 × 3648 16:9 Aspect Ratio: 5472 × 3078
PIV Image Size	p4096×2160(4096×2160 24/25/30/48/50p) 3840×2160(3840×2160 24/25/30/48/50/60p) 2720×1530(2720×1530 24/25/30/48/50/60p) 1920×1080(1920×1080 24/25/30/48/50/60/120p) 1280×720(1280×720 24/25/30/48/50/60/120p)
Still Photography Modes	Single Shot Burst Shooting: 3/5/7/10/14 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Interval: 2/3/5/7/10/15/20/30/60 s
Video Recording Modes	H.265 C4K:4096×2160 24/25/30p @100Mbps 4K:3840×2160 24/25/30p @100Mbps 2.7K:2720×1530 24/25/30p @65Mbps 2.7K:2720×1530 48/50/60p @80Mbps FHD:1920×1080 24/25/30p @50Mbps FHD:1920×1080 48/50/60p @65Mbps FHD:1920×1080 120p @100Mbps HD:1280×720 24/25/30p @25Mbps HD:1280×720 48/50/60p @35Mbps HD:1280×720 120p @60Mbps H.264 C4K:4096×2160 24/25/30/48/50/60p @100Mbps 4K:3840×2160 24/25/30/48/50/60p @100Mbps 2.7K:2720×1530 24/25/30p @80Mbps

2.7K:2720×1530 48/50/60p @100Mbps
 FHD:1920×1080 24/25/30p @60Mbps
 FHD:1920×1080 48/50/60 @80Mbps
 FHD:1920×1080 120p @100Mbps
 HD:1280×720 24/25/30p @30Mbps
 HD:1280×720 48/50/60p @45Mbps
 HD:1280×720 120p @80Mbps

Max Video Bitrate	100 Mbps
Supported File Systems	FAT32 (≤32 GB); exFAT (>32 GB)
Photo	JPEG, DNG (RAW), JPEG + DNG
Video	MP4/MOV (AVC/H.264; HEVC/H.265)
Supported SD Cards	Micro SD Max Capacity: 128GB Write speed ≥15MB/s, Class 10 or UHS-1 rating required
Operating Temperature Range	32° to 104°F (0° to 40°C)

VIII-CHARGER

Voltage	17.5V
Rated Power	100 W

X-APP / LIVE VIEW

Mobile App	DJI GO 4
Live View Working Frequency	2.4 GHz ISM
Live View Quality	720P @ 30fps

Required Operating Systems iOS 9.0 or later
 Android 4.4.0 or later

1. A company/ Dealer should have Authorization as Enterprise Channel from OEM.
2. A company must have minimum 5 years experience in dealing with government departments.
3. Company should have service centre located in Aizawl to provide after sales services.
4. 3 days Training to be provided by drone supplier. The Engineer trainer should be an experienced pilot or has obtained formal training in past for flying. He should also possessed knowledge of DGCA(Director General of Civil Aviation) rules and regulations in India.
 Documentary proof is required to be submitted for trainer qualification in the tender.

III- REMOTE AREA LIGHTING SYSTEM:

Item	Specification
Product Name	Remote Area Lighting System with remote controller
Input	12V
Current	5A
Rated Power	120W
Remote Control	Range 40-50 metres
Battery Type	12V,24AH lithium battery
Battery Working Time	High 3H,Middle 7H,Low 11H
Battery Charging Time	9-11H
LED	CREE T6
LED quantity	10-12 PCS
LED Life Span	50000-100000h
Material	Plastic+Aluminum alloy
Lens	PC(poly carbonate)
Lumens	10000-12000 LM
Color Temperature	6000K-6500K
Beam	Spot and Flood adjustable
Beam angle	360 degree
Size	340*550*250mm max.
Weight	18-20 KG