

**OFFICE OF THE DIRECTOR GENERAL OF POLICE
MEGHALAYA :: SHILLONG**

**TENDER NOTICE
(MPF - 2011-2012)**

Annexure – "A"

**CERTIFICATE OF ACCEPTANCE OF TERMS AND CONDITIONS
(To be furnished along with the tender documents)**

I/We have read and fully understood the terms and conditions as laid down in the NIT. Vide No. MSB/VI/Tech/Tender/2011-2012/171 dt. 06/03/2013 in respect of supply of Security equipments to the Office of the Director General of Police, Meghalaya, Shillong due to be opened on

I/We agree to abide by the same.

I/ We have signed all the pages of the tender documents as laid down.

Signature and seal of the Tenderer or
His/her Authorized signatory.

Dated.....

Name

Address

.....

Phone No.....

LIST OF EQUIPMENTS PROPOSED TO BE PURCHASED.

UNDER MPF 2011-2012

- | Sl. No. | Item. |
|----------------|--|
| 1. | MOBILE DVR/ NVR SYSTEM COMPLETE WITH VEHICLE
(Detailed specifications is attached at ANNEXURE 'C', 'D' 'E' 'G' and 'H' .
Price Bid of the above should be as per ANNEXURE 'F'). |
| 2. | THERMAL IMAGER.
(Detailed specifications attached at ANNEXURE 'I'). |

A. MOBILE SURVAILLANCE VEHICLE

The Scope of the project is to deliver a mobile surveillance system mounted in Tata Winger Platinum vehicle with a complete command and control devices installed. The vehicle should be self sufficient for managing surveillance with cameras.

SL	PARTICULARS	Quantity
1	Tata Winger	1 (One) No.
2	IP PTZ Camera (20 x Zoom or better)	1 (One) No.
3	Wireless Access Point with required antennas.	3 (three) Nos.
4	IP wireless Camera (Wi- Fi) with Video and audio transmitter and the required batteries.	4 (Four) Nos.
5	NVR 8 Channel 4 TB Capacity	1 (One) No.
6	LED Monitor 18.5 "to 32", should be affixed on the wall of the vehicle.	1 (One) No.
7	Laptop (Ultrabook) for management software.	1 (One) No.
8	Management Software to manage camera and other details.	1 (One) No.
9	UPS 2 KVA online (with 4 hrs backup)	1 (One) No.
10	Alternator 2 KVA output to be installed in the vehicle to work along with existing mechanical system, or Generator.	1 (One) No.
11	Vehicle which will be provided by the approved Firm with Internal and external Customisation of the vehicle as per the layout at ANNEXURE 'G' & 'H'. (Pictures are for illustration purpose only)	Enclosed
12	Vacuum cleaner .	1 (One) No.
13	No. of Seats Required.	4 (Four) Nos.
14	Fabrication materials inside the vehicle for placing & storing of the articles should be of waterproof quality plywood of 20mm thickness and covered by light grey colour sunmica Laminates.	As per requirements.
15	Storage compartment for generator with an outlet for exhaust smoke outside of the vehicle. Complete with required wiring for the power supply.	1 (One) No.
16	LED Torch Light medium size	2 (Two) Nos.
17	Fire Extinguisher : DCP fire extinguisher medium size	1 (One) Nos.

**TECHNICAL SPECIFICATIONS FOR MOBILE SURVEILLANCE VEHICLE
(CONTROL AND COMMAND)**

**WIRELESS CAMERA (WITH BUILT IN POWER SUPPLY TO PROVIDE
UPTO 4 HRS BATTERY BACK UP)**

1. 1280 x 960 or better resolution as standard definition (colour) camera.
2. 640 x 480 or better resolution Night camera.
3. Continuous 4 x Zoom or better.
4. HTTP/HTTPS/FTP/IP Filter access.
5. Image post processing system.
6. Integrated 5 Hours or more back up power supply.
7. Battery charger with quick recharge for each camera.
8. Clamps for each camera up to 100 /150 mm diameter for fixing the camera with extendable steel poles of 10 feet height for each camera.
9. The camera should connect to the control centre using WIFI router.
10. The camera should be installed along with a battery pack which can capture and transmit AV signals at approx 50 mts in NLOS (Non Line Of Sight) and 100 Mts in LOS (Line of Sight) environment or better.
11. The WI FI router will be connected to the management system and will record/ display the AV inputs from the camera.
12. Transmission frequency 2.4 GHZ / 5.8 GHZ.

THE OUTDOOR IP PTZ CAMERA SHOULD HAVE THE FOLLOWING SPECIFICATIONS

1. The IP PTZ camera system shall contain a high quality camera, 20x or better zoom available.
2. It should have 360 degrees view in PTZ.
3. This will be mounted on the roof of the vehicle on the front side.
4. Camera will be weather proof, lightning proof and surge proof.
5. Day/ Night view (with infrared lights system).
6. Controlled with a management software and content recorded with the help of NVR and management software.
7. Extendable Turret for the IP PTZ camera elevation of 12 feet from the ground, which is to be fitted on top of the vehicle.
8. The IP PTZ camera should also have built in shock absorbers for withstanding and controlling of shaking etc.

ANNEXURE 'F'

PRICE BID SHOULD BE AS FOLLOWS FOR MOBILE DVR WITH VEHICLE

SL	PARTICULARS	QTY	RATE	AMOUNT
1	Mobile Surveillance Vehicle with mounted 1 Nos. PTZ cameras and 4 Nos. Wi Fi mobile cameras. With all accessories and management software.	1		
	TOTAL			
	TAX@___%			
T1	TOTAL WITH TAX			
2	INSTALLATION , TRAINING AND COMMISSIONING CHARGES	1		
	SERVICE TAX			
T2	TOTAL INSTALLATION WITH TAX			
T3	GRAND TOTAL (T1+T2)			

BROAD LAYOUT

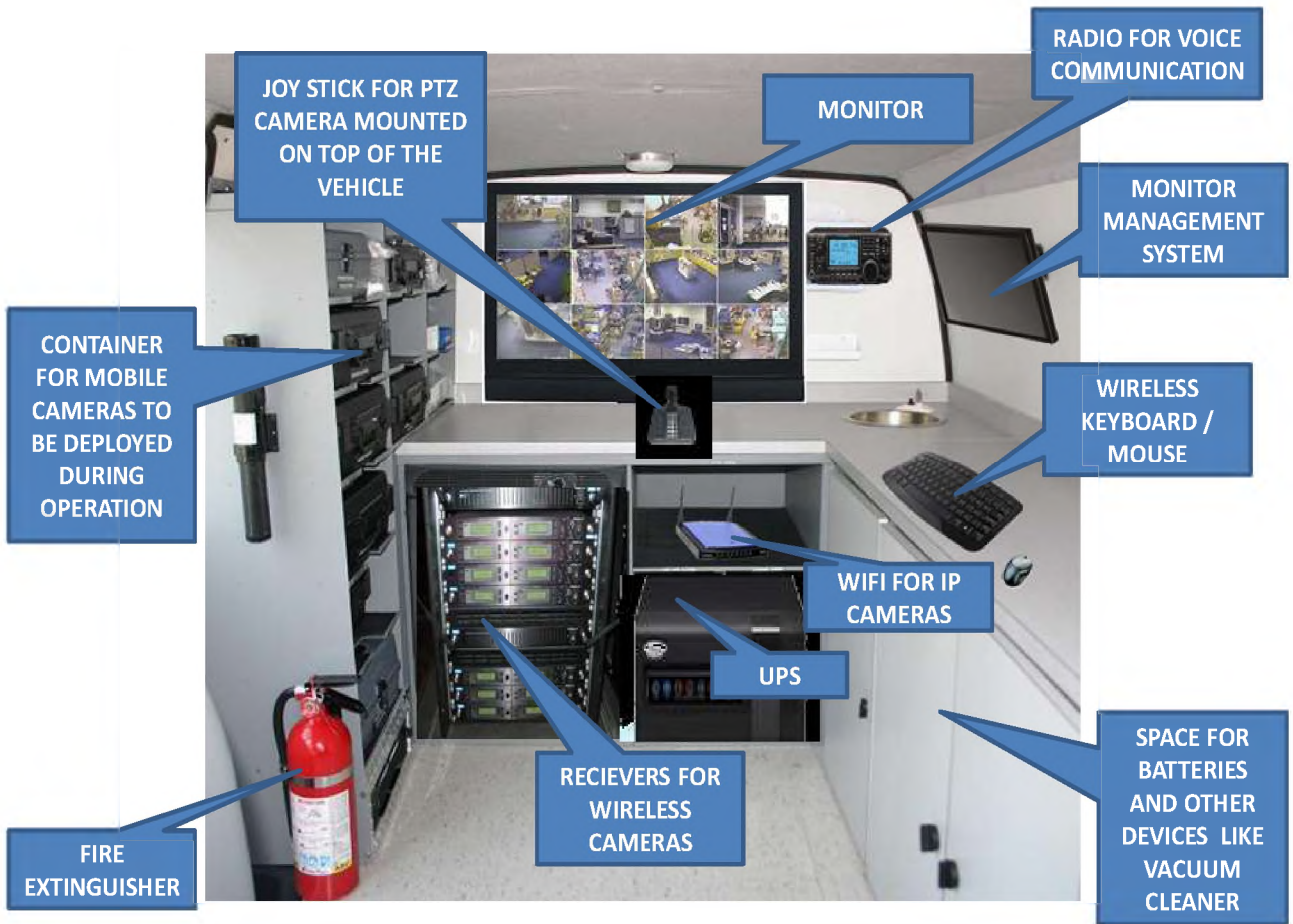


Above picture of Mobile DVR with vehicle Broad Layout.

PTZ- Pan Tilt Zoom.

IP- Internet Protocol.

ROUGH SKETCH OF INSIDE THE CONTROL CENTER



ABOVE : PICTURE of MOBILE SURVAILLANCE VEHICLE'S INSIDE LAYOUT

A. THERMAL IMAGER

1. **Weight -** Maximum 2Kg without battery.
2. **Battery-**
 - (a) Lithium Ion or NiMh Bty (rechargeable): the battery should function for 3hrs or more in operational mode for 5 hours or more in standby mode.
 - (b) Adaptor- 220 V AC adaptor or 12-40 V DC adaptor.
 - (c) Full charging of battery should not take more than 3 hours.
3. **Recognition:** Should be capable to recognise men both moving and stationary at a range of minimum 200 Mts. or better.
4. **Detection :** Should be capable to detect men both moving and stationary at a range of minimum 1000 Mts. or better. Should be able to detect a moving medium vehicle at a range of minimum 2.5 Km.
5. **Ready Time from Standby Order:** 1.5 Secs or less.
6. **Field of view:** (a) Narrow- 4 degrees maximum.
(b) Wide- 8 degrees maximum.
7. **Power consumption:** Maximum 12 W.
8. **Cooling:** Non Cooling System.
9. **The HHTI should:-**
 - (a) Be monocular with one eye piece having one objective glass and one detector system.
 - (b) Have minimum 320 x 240 resolution.
 - (c) Have capability to produce real time picture.
 - (d) Penetrate darkness, haze and smoke.
 - (e) Be immune to glare of searchlights.
 - (f) Not get damaged if faced towards sun accidentally.
 - (g) Reduced Eye Strain: - for this purpose a suitable tint should be provided. This feature should help the observer to quickly regain his normal night vision.
 - (h) Rugged- should be capable of operations in rain, fog, smoke, and sand.
 - (i) Ruggedised container for transportation.
10. The HHTI should be able to work at extreme temperatures i.e -4 degree to +45 degree centigrade.
11. It should have provision for external video output (PAL).
12. On replacement of discharged battery with the charged battery, recovering of equipment to operational mode should not take more than one minute.
13. Control panel should be easily accessible to user without disturbing the grip.
14. USB Compatible.
15. SD/ SDHC Card slot for recording.
16. It should have digital Zoom.
17. 1 (One) year or more Warranty/ Guarantee should be provided.