

TECHNICAL SPECIFICATIONS FOR SPECIALLY DESIGNED & FABRICATED CASH VAN

**1. Make & Model**

- (a) It should be an LCV (Light Commercial Vehicle), with an Engine capacity of not less than 2200 CC, preferably Turbocharged.
- (b) Vehicle should not be more than 02 years old at the time of hiring and not more than 05 years old at any point of time.
- (c) Ground Clearance – Not less than 190 mm.
- (d) Vehicle should accommodate minimum 1 + 4 passengers (factory built).
- (e) Vehicle should have four (04) doors for driver / passengers and one separate door for cash cabin.
- (f) All doors to have independent locking system from inside and outside.
- (g) Should have tubeless tyres including Stepney.
- (h) Complete tool kit containing jack and handle and tools to open wheels and minor repairs.
- (i) Factory fitted air conditioner.

**2. Layout**

- (a) Body should be of a sheet metal of minimum 19 Gauge, however the floor should be of minimum 16 Gauge chequered plate.
- (b) There should be at least 4 iron eyelets on cash cage floor, of sufficient diameter (say 2-2.5"), bolted to the chassis from below. The eyelets should be spaced in a way so as to accommodate multiple cash box stacks in the cash cage.
- (c) There should be 2 rows of seats in the driver's cabin, front row for driver and one Bank Guard (co-driver) and the rear row for one armed guard and 2 other staff.

**3. Cash Compartment Security**

- (a) Cash cage compartment should have door and grille gate.
- (b) The entrance of cash compartment shall be from rear side of cash van.
- (c) Locking arrangement: One internal lock and 02 pad locks at the door of cash cabin.

- (d) All windows and wind screen should have wire mesh protection (of not more than 1 square inch). Each Window mesh should have a circular port-hole of dia. 6 inches for use of weapon.
- (e) The panic switches for operating the hooter are available with the driver and other occupants.
- (f) Cash Box Security : Cash van should have provision to secure the cash boxes so that each of the cash boxes is secured to the floor with separate chains and have locks that can be opened or locked only by using separate keys kept with different custodians and cash for each branch shall be carried, preferably, in a separate box with the name of the branch written on it.

#### **4. Driver Cabin**

- (a) It should have mobile charging facility.
- (b) Fitted with CCTV system with GPS tracking device and 30 days recording facility and 03 cameras as under:
  - (i) Rear (ii) Front (iii) Cash Compartment.
- (c) Hooter for security purpose.
- (d) One First Aid box with adequate first aid kit shall be fitted near driver's seat.
- (e) One ABC type (stored pressure) 2 kg. Fire extinguisher shall be provided near driver seat.
- (f) A security alarm with GSM based auto-dialer shall be provided with a motorized siren.
- (g) The Cash van shall be equipped with emergency lights.
- (h) Every cash van shall be fitted with GPS tracking device.

### m-DVR Specification

S.No	Parameter	m-DVR having up to 4 CCTV cameras
1	Video Format	PAL
2	Number of Video Inputs	4 Channels
3	Number of Video Outputs	1
4	Video Compression Standards Supported	H.264, MPEG-4 and M-JPEG
5	Audio Compression Standards Supported	G.711 and G.726
6	Number of streams	Dual streams, both streams independently configurable for each camera resolution and frame rate
7	Recording Resolutions	4CIF/2CIF/CIF/QCIF (can be set independently for each channel, for both streams)
8	Video Frame Recording Rate	1 to 25 fps for all channels at 4CIF (total 100 fps at 4CIF) – resolution and frame rate can be set independently for each camera, for both streams
9	Alarm Sensors	Minimum 4 inputs (NO/NC, configurable) 2 outputs
10	Storage	1TB, 2.5" SATA Hard Disk Drive or Solid State Drive with suitable ant vibration mechanism
11	Recording Modes	Normal, Schedule based, Alarm triggered, Motion detection
12	Event Based Recording and Tagging	Pre-recording – 1 to 15 minutes Post-recording – 1 to 60 minutes
13	Shut Down Delay	Configurable shut down delay after ignition off – 5 min to 4 hours
14	Power Input	8 to 32 volts, spike/surge protection
15	Power output	Regulated power to CCTV cameras and Microphones
16	Working Temperature	-10 to 60 degree Celsius
17	Working Humidity	0% to 95% relative humidity non-condensing
18	Network/Communication	LAN – 1 RJ45 interface
19	Interfaces	Wi-Fi – 802.11/b/g/n Built-in 3G/4G module, supporting both 3G and 4G, Support for SMS, Voice, Data, GPRS, TCP/IP
20	External Interfaces	1 USB 2.0 1 SIM slot
21	Image quality	1 to 5 (configurable)
22	Watermark	Tamper-proof Watermark
23	Configurable Video Overwriting	Video over-writing to be configurable to support: (a) Cyclic overwriting (oldest recording to be overwritten) (b) Event tagged recording not to be overwritten for a longer period (7 to 30 days, configurable)

24	Connections	All input and output connections to be vibration/shock resistant and locking Desirable: Aviation Connectors
25	LED Indicators	Power, Recording, 3G/ GPRS Network
26	Vibration resistance	EN 60068 or equivalent
27	Shock resistance	EN 60068 or equivalent
28	Motion Detection	Configurable sensitivity levels Motion Detection zones to be configurable independently for each camera
29	RTC( Real time clock)	Built-in RTC, drift not more than 10 seconds at any time
30	Data Download	m-DVR should provide video and audio download facility for the desired date/time and duration. It should be possible to connect a laptop to m-DVR through network cable on RJ45 port and open m-DVR's user interface in a standard browser using a standard URL.
31	Data Transfer on 3G and 4G/ GPRS	In case the vehicle moves to an area where 3G coverage is not present, the m-DVR will automatically shift to GPRS (2G) connectivity to send the health status data.

In addition to m DVR should have inbuilt GPS Module, capable to provide video with GPS Coordinates.

### ANALOG CAMERA SPECIFICATION FOR CASH VAN

S.No.	Parameter	Recommended Specs
1	Type	Analog Color Camera
2	Video Format	PAL
3	Lens	Fixed 3.6mm
4	Camera Resolution	700 TVL , 752(H) X 582 (V) or better
5	Image Sensor	1/3" CCD or better
6	Minimum Illumination	0.01 Lux at F1.2 with IR Off 0.0 Lux with IR On
7	Shutter Time	1/50 sec to 1/100,000 sec
8	Infrared Capability	Built-in Infrared LEDs with range of minimum 10 meters Auto Day/Night
9	Camera Ruggedness	Rugged, vibration, shock and tamper proof housing, vibration resistance as per EN 60068 or equivalent Shock resistance as per EN 60068 or Equivalent
10	IP Rating	IP66
11	Operating Temp	-10 to 60 degree Celsius
12	Operating Humidity	0% to 95% RH
13	Audio	Built-in Microphone or separate microphone
14	Image Enhancement	Auto-tracking White Balance (ATW), Automatic Gain Control, Wide Dynamic Range (WDR) and automatic Backlight Compensation (BLC)
15	Input Power	Power from Mdv
16	Motion Detection	Automatic Motion Detection