

Technical specification for fabricating a Road safety display Van

Fabrication of Road Safety Display Van on Eicher 10.75 Cowl chassis having 3350 mm wheel base as per drawing and specifications to be obtained from Police HQs, Sector 9 Chandigarh or from Inspector MT, Police Lines, Sector 26, Chandigarh. Road Safety Display Van should be fabricated in accordance to the Drawing only. The work is required to be carried out as follows: -

Sr. No.	Specifications	Quantity
1	Fabrication of Road Safety Display Van built on 3300-3400 wheel base chassis having, power steering, air break Euro III emission Norms, Horse Power 90-100 *HP Engine on bus Chassis as per dimensions mentioned in the Drawing of vehicle which could be obtained either from PHQ Sector-9, Chandigarh or from Inspector MT Section, Police Lines Sector 26 Chandigarh before filling the E- Tender.	1
2	Providing & installation of Generator set 1400 Watts 2000AC of reputed company	1
3	Provision for installation of one Projector	
4	Provision for installation Projector Screen	
5	Provision for installation of DVD Player	
6	Provision for installation of PA System,	
7	Almirah size 1230x500x1350 mm of reputed company to be fitted in the floor of bus.	1
8	Seats for driver & co driver staff	1
9	Table and chair for operator of Projector	1+1=2
B	Fabrication of Body Structure	
1	While making structures, 38x38x5mm guarders, 4.87mm & 2.94 mm T-angles, 2.37 mm & 2.64 mm Square pipes be used for making super structures. 16mm U bolts be used. Proper packing be provided under the U Bolts. Sufficient space between the Tyres size 1000.20 and body structure be made.	
2	All MS folded stamped/ cold rolled formed shall be fabricated out of ISI mark.	
3	All MS cold roll formed section shaft be of MS tube/MS press metal or equivalent.	
4	All mild steel rivets should be of adequate diameter. Heads of the rivets should be well and truly formed and neatly finished and shall be as per IS specification No ISI 2155/1962 or latest.	
5	All structural bolts should be of high tensile steel/ bright steel (tensile strength 63-70 m/m ²).Confirming to properly class 8.8 of ISI specification No. ISI 1367/1967 (or latest) preferably of TVS, GKW, fit tight DPS Imperial/fastener and other reputed concern and should be duly galvanized.	
6	All nuts used in the body should be of self locking type of good quality preferably TVS, Simon marshal, PLS and imperial fasteners. All bolts, machine screw, wooden screw, plane washer, U bolts shall be galvanized with minimum pitch thread.	
7	The body shall be mounted on the chassis frame with suitable flats packing of 12 mm thickness of approved commercial quality interposed between the chassis	

	members in body under frame the body mounting should be of high tension U-bolts or eye bolts of bright steel (tensile strength) 40 to 45 (tones/mm) made put on 16 mm dia bar 105 mm pitch threads (with millimeter threads) duly galvanized. U-bolts	
8	All MS tubing shall be of CNC type confirming to ISI specification No. 3601/1066 or the latest.	
9	There should be sufficient space between the Diesel tank & lower part of super structure so that lid of diesel tank can be opened properly. Height of super structure from ground should be raised by placing support of guarders on the chassis, so that gear box can be opened easily for repair as and when required.	
10	Double cross bearer should be made. All the joints should be welded properly with MIG welding. All the welded places be grinded properly. Proper support for making seats in Prisoner's cabin and Guard's Cabin be provided in the super structure.	
11	While making floor structure CRR sheet of 1.6mm be placed first, then fire & dust proof ply of 12 mm be placed. Then on it aluminum checker plate of 6mm be placed. Then Vinyl of good quality also be placed on it .About Colour of Vinyl consultation be held with Inspector MT	
12	Battery box made on the left side of the vehicle beneath the floor on the space lying ahead of rear Tyres. Place for placing of battery be made on pivot so that, as and when required, battery box alongwith battery comes out easily for repair/checking etc.	
13	Space for Keeping the Spare Wheel be made under the floor on the left side of the vehicle between front & rear left side tyres.	
14	One box on the left side of vehicle on the rear side of rear Tyres be made for the purpose of keeping tools & other items.	
15	Black colour paint be used to paint in inside the boxes, made for installation of battery, spare wheel and keeping tools etc.	
16	Good quality steel handle frames be installed on all the doors. These should be round and of big in size.	
17	Riding step in the front of driver Cabin and rear door should be low.	
18	Frames of all the seats in the should be rounded.	
19	Nit-line be stuffed between inside the all walls & roof of the vehicle.	
20	Engine of the vehicle should be covered with a lid. Proper facility for opening the gear Box/lever for the repair should be made inside Passenger cabin. A Lid made of thick quality steel should be fixed in the structure made of strong steel angels, Nut bolts of good quality (ISI mark) should be used.	
21	Big sized rear view side mirrors on both side should be provided.	
22	Front Wind Screen should be wide & of best quality	
23	The doors on either side must have safety glasses ¼" thick fitted in H&F Section frame. The glass should be capable of moving up and down with winding regulator machine in velvet padded channel of superior quality.	
24	Doors should be manual. The doors should also be provided with superior quality of locking handles inside	

	and outside. Door bolts be also fitted inside the doors to lock up the door from inside as well as outside. The doors must be dust proof. Rear door should open on 270 degree	
25	Light, electric bell, bulb, horn & provision for keeping Log Book Box etc. should be provided at suitable places.	
26	Reflective Tape of 3M company should be pasted in the front, sides and rear body of the prison Van. Indicators should be provided in the front and rear of body of Road safety Display van. Fog Lights be provided in the front and rear of the body of the bus at 75 degree angle. Side Light LED should be of high velocity. 4 Nos. Red LED Flashers (Two flashing front & two flashing backside) be fitted near the roof line (embedded inside body) of the vehicle. All lights be embedded inside the body.	
27	Interior and roof should be painted with silver & White colour.	
28	Side amber lights should be embossed inside the body on both sides.	
29	Rubber strips on both sides of the body be provided for protection of body	
30	Windows: Laminated/tinted glasses of best quality be used. Glass should be sliders.	
31	All switches/sockets be used of ISI mark Standard Company.	
32	Electrical wiring should be done inside the roof, not visible outside. Cables be of the best quality ISI mark	
33	Provision of both AC & DC electric system be made & a Change over switch also be installed so that Projector can run both on Generator set as well as on Electricity connection. 50 meter long electric wire of good quality with switches and sockets also be provided.	
34	The work paint and finish should be of very high quality of 2K company. Writing job with best quality reflective tape of 3M be done on the vehicle. Instructions be taken accordingly from Inspector MT, Police Lines, Sector 26, Chandigarh.	
35	Light Bar including Siren, PA System, Electric direction indicators, cat eye, inspection lamp, rear view mirror, number plates etc. be provided in the vehicle by Fabricator.	
36	Work of fabrication of Road safety Display Van should be completed with in 120 days from the date of receipt of work order and chassis, failing which penalty of Rs.500/- per day will be imposed upon the fabricator.	
37	The body building work shall be inspected at three stages by the authorized representatives of the Department: 1 Before paneling. 2. After paneling but before paint. 3. After paint the final inspection.	
38	The Committee Constituted by the Inspector General of Police UT can stop the work at any stage, if considered that it is not being done accordance to the Drawing & specifications/instructions.	
39	The Department reserves the right to accept or reject any or all tenders without assigning any reason.	
40	The vehicle will be tested on the road at the cost of the firm to check the body and door rattling & other defects, if any.	
41	First aid Box (Big size) with required medicines in the vehicle.	1

42	Water CO ₂ base fire extinguishers of 5 Kgs ISI Mark in provided	2
43	Fans (3 each in two rows+ one each near driver & CO-drivr seat) of reputed company should be provided in the vehicle	8
44	Water dispenser 20 Liters (ISI mark) be provided in the Van.	1

Paul

SP/Operations
Chairperson

jeant

DSP/Lines
Member

Henry

DSP/ MT
Member.



