

# Qualitative Requirements (QRs)/Trial Directives (TDs) of "Explosive Van"


## Scope :

- (i) The Explosive Van should cater for the smooth transportation of explosives/ammunition from one location to other.
- (ii) The Explosive Van should be made as per relevant Central Motor Vehicle Rules (CMVR) for latest mass emission standard (as applicable).
- (iii) The Explosive Van shall be fitted with all necessary accessories/standard fitting and must have all required clearance / certifications as per statutory provision of Explosive Act and rules (including applicable amendments, issued from time to time, if any) from relevant competent authority.
- (iv) The Explosive Van shall be suitably designed to operate satisfactorily in heavy dust laden atmosphere, ambient temperature i.e. -20 degree C to 50 degree C, 95% relative humidity and other service condition prevalent in the Indian climatic condition. It shall be capable of operating continuously in slushy & tropical condition.

## PART-I (Base Vehicle/Chassis Specifications)

<b>A.</b>	<b>Base Vehicle/Chassis:</b> The base vehicle/chassis shall be provided by user department or supplier firm (as decided by the user department/indenter). Brand new vehicle/chassis shall be used for body building/fabrication of Explosive Van. Relevant purchase documents of vehicle chassis shall be checked by the detailed BOOs during the inspection.	
	<b>Qualitative Requirements (QRs)</b>	<b>Trial Directives (TDs)</b>
1.	Type of base vehicle/chassis	Cowl Chassis / Cabin Chassis (User/indenter to define as per their requirement)
2.	Engine	Water cooled, turbo charged, inter cooled, diesel engine or better technology of any reputed make conforming to ARAI/BIS/BS/SAE/VRDE standards as per prevailing norms.
3.	Power	Not less than 180 HP.
4.	Torque	Minimum 700 Nm @ 1000-2000 RPM.
5.	Transmission	Manually operated, minimum 4 Forward 1 reverse gear or better technology.
6.	Drive	4x2 / 4x4 (User department/indenter to choose as per requirement at the time of placement of indent)
7.	Suspension	Semi Elliptic Multi leaf or better technology.
8.	Clutch	Single dry plate hydraulically or pneumatically operated or better technology.
		To be checked physically. Documents/certificates issued by Govt. agencies ARAI/VRDE or ICAT etc. shall be produced before the detailed BOOs.

  
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9.	Wheels	(i) Front Wheel-2 and Rear-4 with one Spare Wheel.  (ii) Type- Radial Tyres  (iii) Wheel base – 4200 mm (Minimum)	To be checked physically by the BOOs and wherever required, certificates issued by Govt. agencies ARAI/VRDE or ICAT etc. shall be produced before the detailed BOOs
10.	Brakes	i. Service- pneumatic or better technology. ii. Parking brake- Compatible with service brakes.	
11.	Minimum ground clearance (with full pay load)	220 mm	
12.	Electrical system	12/24 Volts.	
13.	Gradient	Not less than 20 degree.	
14.	Battery	Maintenance Free Battery (24V DC) should be provided.	
15.	Side slope capability.	Not less than 15 degree.	
16.	Steering system	Right hand Power steering.	
17.	Length of chassis	The length of vehicle should not be less than 20 feet and not more than 29 feet.	
18.	GVW	Not more than 20 tons	
19.	Load capacity (Pay load)	Not less than 11 tons	
20.	Fuel tank	Metallic fuel tank with anti-fuel theft and fire suppression material. The fuel tank capacity should not be less than 200 Ltr. The fuel tank shall be so located as to minimize the possibility of its being damaged should the vehicle be involved in an accident. Steel guards should be provided if required by approving authority.	
21.	Low Fuel warning	To be provided	
22.	ABS System	Yes required.	
23.	Self starter	To be provided	

  
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**PART-II (Fabrication specifications & requirements)**

A.	Qualitative Requirements (QRs) for Fabrication	Trial Directives
1.	<p>Cabin and Load Body</p> <p>(i) A clear space of at least 15 cm shall be left between the body and cabin.</p> <p>(ii) The construction of Cabin and Load body shall comply with the "Specifications for a road van for carriage of explosives" as mentioned in Explosive Rules-2008. Further, amendments/revision, if any, in above specifications of Explosive Rules-2008 shall also be applicable.</p> <p>(iii) <b><u>Driver's cabin</u></b> :</p> <p>(a) Provision for seating of driver + 07 personnel shall be provided.</p> <p><b>(Note : The number of seating arrangements / occupants in driver cabin may be decreased / increased by user / indenter as per requirement before placing indent)</b></p> <p>(b) Seating layout to be decided by user and firm in mutual consultation.</p> <p>(c) Adjustable hand rest with cup/glass holder.</p> <p>(d) Rear full length seat.</p> <p>(e) Foldable full length sleeping seat/bench over rear seat full length seat.</p> <p>(f) <b>Driver / Co-driver Seat</b> – horizontally &amp; vertically adjustable, push back adjustable with backrest (to be decided by user and firm in mutual consultation)</p> <p>(g) <b>Crew Seat</b> - Pushback adjustable backrest (Recliner along with adjustable footrest)</p> <p>(h) Good quality 3/4 point contact seat harness to be provided with all seats.</p> <p>(i) All the seat(s) shall be well cushioned with best quality foam leather.</p> <p>(j) Charging point, foldable food tray,</p>	<p>To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.</p>

  
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		<p>bottle holder, magazine holder.</p> <p>(k) Suitable side racks over the seats.</p> <p>(l) Provision of HVAC (Heat Ventilator Air Conditioner) shall be provided</p> <p>(m) Suitable lighting arrangements including night lights in driver's cabin and load body.</p> <p>(n) Wall mounted rotatable fans (Min- 2 Nos.) for driver &amp; passengers for being used during HVAC failure.</p> <p>(o) Vehicle must be provided with a rear view camera with IR (Infrared) night vision (with minimum rating of IP-68) along with rear parking assistance feature. Camera to be placed in anti-theft box/case.</p> <p>(iv) The firm shall submit the detailed drawing of the vehicle a/w technical bid. If required user/indenter may provide their own drawing as per the specifications for fabrication before placing of AT/SO. Required changes/modifications (if any), in the drawing shall be finalized by user &amp; firm before placement of AT/SO.</p>	<p>To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.</p>
<p>2.</p>	<p><b>Fire Screen</b></p>	<p>Shall comply with the "Specifications for a road van for carriage of explosives" as mentioned in Explosive Rules-2008. Further, amendments/revision, if any, in above specifications of Explosive Rules-2008 shall also be applicable.</p>	
<p>B.</p>	<p><b>Painting and Marking</b></p>	<p>Shall comply with the "Specifications for a road van for carriage of explosives" as mentioned in Explosive Rules-2008. Further, amendment/revision in above specifications of Explosive Rules-2008 shall also be complied.</p> <p>In addition to this, suitable spall liner, anti-abrasion, anti-rusting coating i.e. Polyurea coating to be done on inner surface of cabin of explosive van. <b>The same shall be optional and if required, user/indenter has to mention it during placement of indent.</b></p>	<p>To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.</p>

  
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<p><b>Other requirements</b></p>	<p>(a) Siren with beacon light.</p> <p>(b) <b>Earthing Chain</b> -One earthing chain should be provided in front and rear of the vehicle.</p> <p>(c) <b>Towing Hook and Bar:</b> Fixed towing hook and Bar shall be provided in the vehicle.</p> <p>(d) <b>Lights</b> - The vehicle should be fitted with necessary lights as per CMVR norms. Electric head, side and tail lamps shall be provided and shall be operated from the dash board. All electric wirings and battery cables shall be fully enclosed.</p> <p>(e) <b>Accessories</b> - 02 Nos Chemical fire extinguishers of Min. 02 Kgs, first-aid box, Main electrical cut-off switch etc.</p> <p>(f) A quick acting fuel cut off, shall be fitted on the feed pipe in an easily accessible position and shall be capable of being operated without the necessity of lifting the bonnet and shall be so located as not to be involved in a fire in the engine.</p> <p>(g) Fire/smoke detection sensor in driver cabin and load body with provision of alarm buzzer in driver cabin shall be provided. <b>However, the same shall be optional and if required, user/indenter has to mention it during placement of indent.</b></p> <p>(h) <b>Tools</b> - Tool kit comprising all necessary tools viz. Hydraulic Jack, DE Spanner set, Ring Spanner set, Adjustable Wrench, Plier side cutting, Pipe Wrench, Screw driver etc. required for carrying out repairs shall be provided.</p> <p>(i) <b>Instruments panel-</b> Vehicle should be provided with all gauges for various lights, oils, temperature etc.</p> <p>(j) <b>Exhaust pipe and spark arrestor</b> - The whole of the Spark arrestor (ISI mark) and exhaust piping shall be in the front of the fire screen.</p>	<p>To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.</p> <p>To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.</p>
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<p><b>D. Inspections/certifications etc.</b></p>	<p>(1) The user shall carry out inspection in the following stages:</p> <p>(a) <b>1<sup>st</sup> Stage Inspection:</b> On completion of structural fabrication of the vehicle.</p> <p>(b) <b>2<sup>nd</sup> Stage Inspection:</b> Final Stage Inspection/Pre-dispatch inspection and Joint receipt inspection (JRI) as per requirement of the user Deptt.</p> <p>(2) Board of Officers (including members of other expert agencies like BPR&amp;D, DGQA etc. if required) to be detailed by indenting/user department.</p> <p>(3) The firm/fabricator will be responsible to get completed all the required inspections (as per the rules/norms issued by Government of India) in connection with Explosive Van. The fabricator will be responsible to obtain all required certifications in c/w Explosive Van and will produce it during inspections/PDI/JRI.</p> <p>(4) The firm will produce/provide all certifications, required in c/w registration of Explosive Van with RTO, to the BOOs at the time of PDI/JRI</p> <p>(5) All charges/expenses towards various stages of tests/inspections/certifications will be borne by the firm/fabricator.</p> <p>(6) The indenter reserves the right to detail inspecting Officer/BOO to inspect the ongoing fabrication work at any stage. The firm shall extend /facilitate all required assistance in this regard.</p> <p>(7) The firm shall provide all required drawings, design, certificate to the BOO/user, at the time of inspections or as and when required.</p> <p>(8) Minor changes/modification felt necessary by the BOO during inspection (s) be incorporated, without any additional cost.</p>	<p>The inspection will be carried out by a inter CAPF BOOs (including members of other expert agencies like BPR&amp;D, DGQA etc. if required), detailed by indenter. The inspection will be carried out in following stages :</p> <p>(i) <b>1<sup>st</sup> Stage inspection :</b></p> <p>(a) The firm will offer the vehicle(s) after structural fabrication as per the drawing provided/agreed upon by user/indenter.</p> <p>(b) In case base vehicle/chassis been provided by user/indenter and only fabrication/body building is being undertaken by the firm, the BOO will check the base vehicle/chassis from the available records/certificates.</p> <p>(c) In case the base vehicle/chassis been provided by the firm/fabricator, all the requisite documents/certificates issued by Govt certifying agency like VRDE, ARAI or ICAT etc. in r/o base vehicle/chassis shall be provided to the BOOs by the firm/fabricator and the same shall be checked by BOO.</p> <p>(d) The vehicles shall meet the requirement of technical specifications as well as requirement as laid down in Explosive Rules -2008/PESO norms.</p> <p>(ii) <b>2<sup>nd</sup> Stage inspection-</b> After completion of 100% work, final stage inspection/Pre-dispatch inspection, including limited</p>
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			<p>run trial for 10-15 kms, shall be carried out by the detailed BOOs. The firm will produce all required certifications in c/w Explosive Van required for registration of vehicle with RTO to the detailed BOOs.</p> <p>Joint Receipt Inspection (JRI) of vehicles will be carried out at the consignee location.</p> <p>The firm will produce /provide all certifications required in c/w registration of Explosive Van with RTO to the BOOs at the time of <b>PDI/JRI</b>.</p>
E.	<b>General conditions</b>	<p>(i) All the required test reports/certifications as applicable for the class/category of vehicle under prevailing Government rules/norms as well as all related documents required for registration of vehicle(s) with local RTO authority throughout India shall be provided by the firm/fabricator before final supply of vehicles.</p> <p>(ii) The Explosive van should comply with the guidelines issued in Explosive Act-2008 with regard to the Specification for a road van for carriage of explosives.</p> <p>(iii) <b><u>Qualifying criteria for the prospective bidder:</u></b></p> <p>(a) The bidder(s)/firm(s) should be approved and registered fabricator for Explosive Van with Petroleum and Explosive Safety Organization (PESO) in India. Bidder should submit documentary proof for the same.</p> <p>(b) The bidder must have supplied/fabricated Explosive van as per specification for a road van for carriage of explosives as defined in Explosive Act-2008 in past to any Government Department / PSU/ Private agencies during last 07 years. Copies of genuine Supply order(s) of explosive van with valid performance certificate issued by Department, if any,</p>	To be checked physically and wherever required necessary documents/certificates shall be checked by the BOOs.

  
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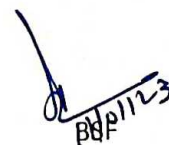
  
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shall be provided.

**However, above criteria can be modified/ changed by user department, during placement of indent, with reason to be recorded in writing for the same.**

**(iv) Service and Support:**

**(a) Warranty:** The supplier/firm will provide a warranty of 30,000 Km or three (03) years, whichever is earlier.

**(b)** During the warranty period, successful bidder(s)/firm(s) shall be bound to provide after sales repair & maintenance, servicing etc. of Explosive Van, free of cost at user location. After warranty period the firm/fabricator shall be liable to extend all required repair & maintenance, spares and other related services for at least 10 years or till the vehicle remains in service, whichever is later on payment basis. The bidder/firm shall also be liable to provide onsite technical assistance at the product site (free of cost during warranty period and on payment basis afterwards as per request made by user department). Even after the said mandatory period (10 years or till the vehicle remains in service), the vendor would be bound to give at least two (02) years notice to the Indenting dept. prior to closing the production line so as to enable a Life Time Buy of all spares before closure of the said production line.

**(c)** Training to the personnel of user department to be provided by successful bidder/firm as per the request made by user department. Modules+ Durations of training to be decided by the user in consultation with firm.

**(v) R.T.O. Registration:**

The successful bidder shall be responsible for facilitating permanent registration of the explosive van at RTO office throughout India.

**(vi)** Any other part/component not

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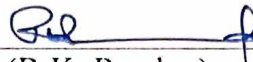


specifically mentioned in these specifications but necessary for safe and smooth operation of the Explosive van shall be considered on proposal of the qualified firm(s) and should be included in the scope of supply.

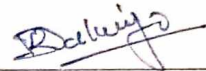
(vii) In case of any doubt regarding interpretation of above specifications, the provisions/interpretation of Explosive Act – 2008 including subsequent amendments, if any, will prevail.



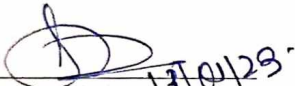
(Balwan Singh)  
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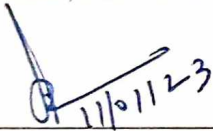
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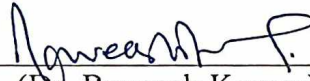
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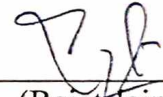
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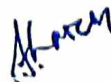


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