

## FUTURE READY COMBAT VEHICLE (FRCV)

1. **Brief Description.** The Indian Army requires state of the art **Main Battle Tank** namely **Future Ready Combat Vehicle (FRCV)** to replace the existing tank fleet. It would be required to operate across developed / semi-desert/desert terrain and in high altitude areas across the entire spectrum of conflict. It will be a technologically enabled futuristic tank to cater for current and future operational requirements beyond year 2050. The Main Battle Tank – FRCV being the fore runner will pave the way subsequently for a family of supporting platforms, based on a modular approach and base platform standardisation.

2. **Broad Operational Requirements (ORs).** Major ORs are as under : -

<u>Ser No</u>	<u>Parameters</u>	<u>Capability</u>
(a)	<b>Mobility</b>	Medium weight class (45-50 Tons).
		High Power to Weight Ratio.
		Low NGP (Nominal Ground Pressure).
		High Operating Range.
(b)	<b>Firepower</b>	Main gun capable of firing variety of ammunition, including ATGMs. Secondary weapon system(s) to cater for alternate threats.
		High First Round Hit Probability and High Lethality under dynamic engagement conditions.
		Full solution Fire Control System with auto multi target tracker system & 'hunter-killer' concept.
		Integrated day-night vision devices for complete crew incorporating fusion technology and 360 <sup>0</sup> panoramic view for Commander.
(c)	<b>Survivability</b>	Technologies to enable high survivability, including passive, active, reactive and ballistic protection and stealth / signature management technologies catering for variety of threats faced. Integrated Fire Detection and Suppression System (IFDSS).

<u>Ser No</u>	<u>Parameters</u>	<u>Capability</u>
(d)	<b>Miscellaneous</b>	Operability in all terrain / weather conditions as obtaining.
		In service secure Software Defined Radio (SDR).
		In service Navigation System
		In service BMS (Battlefield Management System) and enabled to fight in a network centric environment.
		Ability to operate in a Chemical Biological Radiological Nuclear (CBRN) & Electronic Warfare (EW) environment.
		Fording capability.
		Air transportability, rail transportability based on in - service aircraft and rail infrastructure and tactical mobility over existing bridges.
		Ergonomically designed for all weather conditions and 24 x 7 operations without crew relief for 72 to 96 hours.
		Modular design and BITE to minimise equipment down time.

3. **Route / Category.** The FRCV is proposed to be developed under **Chapter III, 'Make-I'** procedure under provisions of **DPP-2016**. The FRCV development will be **Service HQ** driven with enabled state of art and futuristic technology.

## **ASSAULT TRACK WAY CL-24**

1. **Name of the Projects.** Assault Track Way Class -24
2. **Brief of the Projects.** The Assault Track Way Class-24 is envisaged as a light weight track material to be employed in Desert/Semi Desert terrain for mobility of wheeled vehicles of the Indian Army with load class up to Class -24. It is proposed to replace the existing Aluminium Alloy based Assault Track Way Class-12.
3. **Broad Specifications.**
  - (a) Temp tolerance up to +50<sup>0</sup>c.
  - (b) The surface finish should be able to blend with the terrain without any shiny surfaces.
  - (c) It should facilitate ease of laying and recovery with manual effort as well as mechanical aids.
  - (d) The expected life of the track material should be 10,000 passes of Class -24 vehicles.
  - (e) Weight of one roll of track material should not exceed 300kgs.
4. **Tentative Quantity.** The total requirement will be approximately 1000 km and the annual requirement will be 20-50 km per year.
5. **Tentative Timelines for Development/Production.** Two - three years.