

SL. NO.	ITEMS TO BE DISPLAYED IN EXHIBITION	END USE
1	OPTICAL SENDING UNIT OD1-1C / OD1-1C.000TY	Optical sending units OD1-1C. (10 Nos) are located in the crew compartment. It is an electronic device which feeds signal for operation of the fire-fighting equipment when its photo-detector is exposed to the flame radiation at a distance of up to 1.5 m.
2	STARTER GENERATOR / CG-18-1C000CB	Starter-Generator CG-18-1C is a DC electric machine used to start T-90 Tanks and functions as Generator as well. The starter-generator is parallel-excited when it runs as a generator and develops 18KW electrical power and compound-excited when it runs as a starter.
3	MOUNTING OF GYRO COMPASS GPK-59 / 175.70.071CB	It is used for the indication of the disturbance created during movement of Tank. It requires highest precision machining. 24.5 to 27.5 V, 400Hz
4	FIRE FIGHTING EQPT (Both Cylinders only) 188.82SP-3	Two Fire Fighting Cylinders each are used to suppress fire in crew compartment and engine compartment. The cylinder in crew compartment is filled with 1.9+0.1 kg of Khladon 13B1 and cylinder in Engine compartment 1.1+0.1 kg of Khladon 114B2 respectively.
5	AUTOMATIC CONTROL UNIT B13 / B13.000CB	The Automatic Control Unit is a Master control unit for Fire fighting system. It generates and feed control commands to the actuating mechanisms in response to the signals received from Detector ГО-27, Fire sensitive units, Optical sending units and from the controls used for manual application of the FIRE and CBR commands.
6	ALARM SIGNALLING UNIT BAC-6A ASSY / BAC6A.000CB	Alarm Signaling Unit generates alarms in the event of fire, braked condition of the tank, neutral condition of the cooling system fan, low oil pressure and low temperature in the engine, maximum temperature of the coolant and critical engine crankshaft speed to interlock the engine starting in case of low pressure and low temperature of oil in the engine.
7	RELAY REGULATOR P15M-3C ASSEMBLY / P15M-3C.000CB	Relay or Voltage Regulator P15M-3C is designed for automatic connection and disconnection of the starter-generator. It operates as a regulator from the electric equipment circuitry for maintaining the generator voltage within the pre-set limits (26.5V – 28.5V).
8	UNIT PKUZ-1A(AED1.570.001-01 / AED1.570.001TY1	It is a Nuclear, Chemical and Biological threat detector for Tank T90. It displays the threat digitally. It operates on DC system, 29 to 22 V .
9	PRE HEATER ASSY / 188.36.001CBCB	Pre Heater Assy is used during extreme cold climate conditions. The preheating system preheats the engine, radiator coolant, water jackets, engine oil and transmission oil before starting the engine. The preheating system consists of boiler, fuel injection system, radiators, fan etc.
10	OIL COOLER ASSY / 188.32.096CBCB	The Oil Coolers are designed to cool oil coming out of the engine and transmission system. It forms part of Cooling System of tanks. Oil Coolers are made of Aluminum with a special flower fin design.
11	BH ELEVATION DRIVE / 187.94.004SB-2	This equipment facilitates Crew to control(Elevate and depress) the Anti Aircraft Gun without popping

		out from Tank T90. It has a gear train with a motor (180 W, 27 V, 3000 RPM) and electrical feedback system.
12	CENTRIFUGAL FUEL PUMP BTSN / BTSN-02/OH	Centrifugal fuel feed pump BTSN serves to deliver fuel from the left-hand front fuel tank to the fuel feed pump of the engine and to the fuel pump of the preheater. It also pumps fuel through the fine fuel filter and pump HK-12M before starting the engine in order to fill the pipelines with fuel without air and vapour locks and to pump fuel out of the fuel system through the drain pipe union.
13	DISC WITH OUTER TEETH / 432.40.071-1	Disc with outer teeth and Disc with external teeth are steel plates acts as a Clutch along with Ceremetallic plates. The entire transmission in Gear Box is controlled by six sets of Boosters. Hence they are subjected to heavy torque and load.
14	DISC WITH EXTERNAL TEETH / 432.40.074-1	-DO-
15	CERAMETALLIC DISC ASSY (WITH STAMPED / 172.40.031CBCB	Ceremetallic plates are steel plates acts as a Clutch along with Disc with outer teeth and Disc with external teeth. The entire transmission in Gear Box is controlled by six sets of Boosters. Hence they are subjected to heavy torque and load.
16	GYRO UNIT OF T-90 STABILIZER SYSTEM / BC2-369-016-4	The rate gyro unit is designed to generate electric signals proportional to the angular laying speed of the gun in elevation and azimuth, which are required for the steady operation of the weapon stabilizer and for obtaining the desired transient.
17	HYDRAULIC BOOSTER OF T-90 STABILIZER SYSTEM / BC2.952.007CB	The hydraulic booster is designed to transform the electric energy in the working fluid flow energy. The hydraulic booster is located on the gun guard base.
18	AMPLIDYNE OF T-90 STABILIZER SYSTEM / 1BD.593.001.08CB	The Amplidyne is an electromechanical power amplifier designed to amplify the electric control signal (coming from K1) up to the value required for the operation of the actuating motor.
19	ACTUATING CYLINDER OF T-90 STABILIZER SYSTEM / BC2.958.032CB	The actuating cylinder is designed to transform the working fluid flow energy into the stabilizing or locking moment upon arrival of the respective electric signals. The body of the actuating cylinder is connected to the turret roof and its piston, to the gun cradle. The actuating cylinder is located to the left of the gun ahead of sight 1G46.
20	CONVERTER PT-800 OF T-90 STABILIZER SYSTEM / 1AT.609.033	Converter along with regulator RChN 3/3 generates the 3 phase 36V ,400Hz AC current from 27V dc supply to power the FCS system.
21	CASTING ITEMS	-----
22	FORGING ITEMS	
23	RUBBER ITEMS	

