

REPRESENTATIVE LIST OF ITEMS REQUIRING ex-ANTE CV

Sl. No.	Nomenclature	Manufacturing Technology Involved
1	FUZE T&P DA NO. 213 MK5 M2 EMPTY	CNC MACHINERY, TIMING GEAR HOBGING & ASSOCIATED TESTING/INSPECTION FACILITES
2	FUZE YDB 60 ASSEMBLY EMPTY	CNC MACHINERY, TIMING GEAR HOBGING & ASSOCIATED TESTING/INSPECTION FACILITES
3	PYROCOTTON OR PYROXYLIN CELLULOSE SHEET, WIDTH 640MM,THICK 0.52MM TO 0.56MM FOR FOR SHELL 125 MM HE 1A	MILITARY GRADE NITROCELLULOSE MANUFACTURING & ASSOCIATED TESTING/INSPECTION FACILITES
4	PYROCOTTON OR PYROXYLIN CELLULOS SHEET, WIDTH 820MM,THICK 0.29MM TO 0.34MM FOR SHELL 125 MM HE 1A	MILITARY GRADE NITROCELLULOSE MANUFACTURING & ASSOCIATED TESTING/INSPECTION FACILITES
5	EMPTY FUZE B-25M TO DRG.TRD-1778 FOR 140MM ROCKET	CNC MACHINERY & ASSOCIATED TESTING/INSPECTION FACILITES
6	FUZE A670 M ASSY FOR 30MM AMMN	CNC MACHINERY & ASSOCIATED TESTING/INSPECTION FACILITES
7	ASSEMBLY S&A FILLED FOR 40MM PFFC AMMN	MINIATURE DETONATOR MANUFACTURING AND ASSEMBLY & ASSOCIATED TESTING/INSPECTION FACILITES
8	TIME & IMPACT FUZE FFV-447 EMPT ASY FOR 84MM HE AMMN	CNC MACHINERY, TIMING GEAR HOBGING & ASSOCIATED TESTING/INSPECTION FACILITES
9	SPRING 5209544 FOR 84MM HEAT 551 AMMN	PRECISION SPRING MANUFACTURING, HEAT TREATMENT, SURFACE PROTECTION & ASSOCIATED TESTING/INSPECTION FACILITES
10	BASE PLATE 7.8 MM FOR 84MM TPT/HEAT AMMN	FIBER PLASTIC MOULDING & ASSOCIATED TESTING/INSPECTION FACILITES
11	CARTG EOFE 3 PIN NO.3 MK3 EMPTY	BRASS CARTRIDGE DRAWING, HEAT TREATMENT,MACHINING, SURFACE PROTECTION & ASSOCIATED TESTING/INSPECTION FACILITES
12	CARTG EOFE 2 PIN NO.1 MK-3	BRASS CARTRIDGE DRAWING, HEAT TREATMENT,MACHINING, SURFACE PROTECTION & ASSOCIATED TESTING/INSPECTION FACILITES
13	CELLULOID CONTAINER FOR AUGMENTING CARTRDGE	CELLULOID SHEET MANUFACTURING, EMBEDDING, FORMING & ASSOCIATED TESTING/INSPECTION FACILITES
14	BLEACH COTTON LINTER FOR NITROCELLULOSE	1. DEGREASING FACILITIES, 2. BLEACHING FACILITIES, 3.WASHING FACILITIES , 4 REFINEING & BLENDING, 5. ASSOCIATED TESTING/INSPECTION FACILITES
15	PROPELLANT RETAINING DISC FOR BMCS, M-92 HIGH ZONE, BMCS, M-91 LOW ZONE	FACILITIES FOR MANUFACTURING OF COMPLETE COMBUSTIBLE COMPONENT MADE OF NITROCELLULOSE WITH FELTING TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
16	IGNITION TUBE FOR BIMODULAR CHARGE SYSYTEM M92 HZ M91 LZ	FACILITIES FOR MANUFACTURING OF COMPLETE COMBUSTIBLE COMPONENT MADE OF NITROCELLULOSE WITH FELTING TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
17	COMBUSTIBLE CARTRIDGE CASE FOR BIMODULAR CHARGE SYSYTEM M92 HZ M91 LZ	FACILITIES FOR MANUFACTURING OF COMPLETE COMBUSTIBLE COMPONENT MADE OF NITROCELLULOSE WITH FELTING TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES

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18	BORE WEAR REDUCING LINER FOR BIMODULAR CHARGE SYSTEM M92 HZ M91 LZ	WAX COMPOUND COATING OVER CLOTH TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITIES
19	STEEL BILLETS OF DIFFERENT COMPOSITIONS FOR MANUFACTURING OF MEDIUM & LARGE CALIBER SHELLS	<ol style="list-style-type: none"> 1. STEEL MELTING BY LD CONVERTER (BOF) / EAF 2. REFINING BY LF-VD/VOD 3. BOTTOM POURING CASTING FACILITIES 4. HOT ROLLING 5. ASSOCIATED TESTING/INSPECTION FACILITIES
20	ALUMINIUM ALLOY PLATE FOR MANUFACTURING OF MEDIUM CALIBER CARTRIDGE CASE	<ol style="list-style-type: none"> 1. AL ALLOY SLAB DIRECT CHILL SEMI CONTINUOUS CASTING FACILITY 2. FACILITY FOR HOMOGENIZATION 3. HOT & COLD ROLLING FACILITY 4. ASSOCIATED TESTING/INSPECTION FACILITIES
21	ALUMINIUM BASED MASTER ALLOY	<ol style="list-style-type: none"> 1. MELTING FURNACE 2. INGOT CASTING FACILITY 3. ASSOCIATED TESTING/INSPECTION FACILITIES
22	STEEL SHEET FOR MANUFACTURING OF AMMUNITION BOXES	<ol style="list-style-type: none"> 1. STEEL MELTING 2. HOT & COLD ROLLING 3. DE COILING & COILING 4. ASSOCIATED TESTING/INSPECTION FACILITIES
23	STEEL BLANKS FOR MANUFACTURING OF MEDIUM CALIBER CARTRIDGE CASES	<ol style="list-style-type: none"> 1. STEEL MELTING BY LD CONVERTER EAF/ IF 2. REFINING BY LF-VD/VOD 3. INGOT CASTING/ CONTINUOUS CASTING 4. HOT ROLLING 5. HEAT TREATMENT FOLLOWING "SPHEREODISING ANNEALING CYCLE. 6. ASSOCIATED TESTING/INSPECTION FACILITIES INCLUDING CHEMICAL TESTING , CARBON/ SULPHUR ANALYSER, TENSILE TESTING, HARDNESS TESTING, METALLOGRAPHIC TESTING & ULTRASONIC TESTING
24	FSAPDS PENETRATOR	<ol style="list-style-type: none"> 1. METAL POWDER MIXING & BALL MILLING FACILITIES U/REDUCING CONDITIONS 2. COLD COMPACTION 3. SINTERING FACILITIES 4. MACHINING FACILITIES 5. ASSOCIATED TESTING/INSPECTION FACILITIES
25	TUNGSTEN POWDER, IRON POWDER, COBALT POWDER, NICKEL POWDER	<ol style="list-style-type: none"> 1. CHEMICAL LEACHING PLANT/ SOLVENT EXTRACTION PLANT 2. CALCINATION FURNACE/ OXIDATION FURNACE 3. REDUCTION FURNACE (HYDROGEN ATMOSPHERE) 4. ASSOCIATED TESTING/INSPECTION FACILITIES
26	PREVENTIVE COATINGS ON STEEL CARTRIDGE CASE	<ol style="list-style-type: none"> 1. ZINC PLATING 2. ASSOCIATED TESTING/INSPECTION FACILITIES
27	BRASS/ GM STRIP FOR SMALL ARMS AMMUNITION CUPS	<ol style="list-style-type: none"> 1. CONTINUOUS CASTING PLANT FOR COIL CASTING (COPPER/ BRASS/ GILDING METAL) 2. COLD ROLLING FACILITIES 3. DE COILING & COILING FACILITIES 4. ASSOCIATED TESTING/INSPECTION FACILITIES

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28	HYDRAULIC SYSTEM FOR ARTILLERY GUN	FORGING , PRECISION MACHINING, HONING, HEAT TREATMENT, SURFACE PROTECTION, ASSOCIATED TESTING/INSPECTION FACILITES & CRITICAL FUNCTIONAL REQUIREMENT
29	RAMMER FOR ARTILLERY GUN	FORGING , PRECISION MACHINING, HONING, SURFACE PROTECTION , ASSOCIATED TESTING/INSPECTION FACILITES & CRITICAL FUNCTIONAL REQUIREMENT
30	ELECTRONIC SUITE FOR ARTILLERY GUN	OPTRONICS TECHNOLOGY, MVR TECHNOLOGY, ELECTRONIC TECHNOLOGY. ALSO CRITICAL FUNCTIONAL REQUIREMENT
31	BRAKE SYSTEM FOR ARTILLERY GUN	CRITICAL FUNCTIONAL REQUIREMENT
32	LAYER STATION FOR ARTILLERY GUN	CRITICAL FUNCTIONAL REQUIREMENT
33	LOADING DEVICE FOR ARTILLERY GUN	CRITICAL FUNCTIONAL REQUIREMENT
34	LOADING TRAY FOR ARTILLERY GUN	CRITICAL FUNCTIONAL REQUIREMENT
35	COMPONENTS MADE BY MIM TECHNOLOGY	METAL INJECTION MOULDING TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
36	ARMOUR PLATE	SHEET ROLLING, HEAT TREATMENT & ASSOCIATED TESTING/INSPECTION FACILITES
37	RUN FLAT SYSTEM	RUN FLAT TIRE TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
38	BULLET PROOF GLASS	BULLET PROOF GLASS TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
39	BA SEAT	CRITICAL FUNCTIONAL REQUIREMENT
40	COMPOSITE ARMOUR	COMPOSITE ARMOUR TECHNOLOGY & ASSOCIATED TESTING/INSPECTION FACILITES
41	CRANKSHAFT FOR ENGINES	PROFILE FORGING WITH SPECIAL ALLOY STEEL MATERIAL & ASSOCIATED TESTING/INSPECTION FACILITES
42	INJECTOR ASSY FOR ENGINES	MICRO HOLE DRILLING TECHNOLOGIES & ASSOCIATED TESTING/INSPECTION FACILITES
43	FUEL INJECTION PUMP ASSY FOR ENGINES	SYSTEM INTEGRATATION & ASSOCIATED TESTING/INSPECTION FACILITES
44	SUPER CHARGER FOR ENGINES	SYSTEM INTEGRATATION & ASSOCIATED TESTING/INSPECTION FACILITES
45	TURBO CHARGER FOR ENGINES	SYSTEM INTEGRATATION & ASSOCIATED TESTING/INSPECTION FACILITES
46	HEATED PRISMS & GLASS PLATES	AUTOCLAVING , CURRENT CONDUCTION VACUUM COATING & ASSOCIATED TESTING/INSPECTION FACILITES
47	FINISHED PRISM AND POLISHED PLATES FOR DIFFERENT PERISCOPEES	PRECISION OPTICAL POLISHING , SPECIAL COATING , AUTOCLAVING & ASSOCIATED TESTING/INSPECTION FACILITES
48	FINISHED OPTICS INCLUDING CURVED & FLAT OPTICS AND GRATICULES FOR WEAPONS	PRECISION OPTICAL POLISHING , SPECIAL COATING & ASSOCIATED TESTING/INSPECTION FACILITES
49	IMAGE INTENSIFIER TUBE FOR DIFFERENT RESOLUTION	MICRO CHANNEL PLATE & ASSOCIATED TESTING/INSPECTION FACILITES

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50	RUBBERISING OF METTALIC PIN	INJECTION MOULDING & ASSOCIATED TESTING/INSPECTION FACILITES
51	TA WASHER T-90 FOR TRACK T-90	PRESS MACHINING & ASSOCIATED TESTING/INSPECTION FACILITES
52	TA PIN BLANK T-90 FOR TRACK T-90	COLD DRAWING , HEAT TREATMENT & ASSOCIATED TESTING/INSPECTION FACILITES
53	TA CLAMP, SHOE, GUIDE, LINK & BOLT COMPONENTS	FORGING, MACHINING, HEAT TREATMENT & ASSOCIATED TESTING/INSPECTION FACILITES
54	ROAD WHEELS FOR BMP & ITS VARIANTS	PRESSES, WELDING MACHINES, FORGING & CASTING FACILITIES, MATERIAL TESTING LAB, RUBBER VOLCUNISED MACHINE, MILLING, TURNING, GRINDING, BORING, HEAT TREATMENT FACILITIES & ASSOCIATED TESTING/INSPECTION FACILITES
55	TRACKS FOR BMP & ITS VARIANTS	STEEL FORGING MACHINES, TURNING, MILLING, GRINDING, DRILLING, MIG WELDING MACHINE, ISOTHERMIC HEAT TREATMENT FACILITY, CHEMICAL & MECHANICAL TEST LAB, SHOT BLASTING MACHINE & ASSOCIATED TESTING/INSPECTION FACILITES
56	COMPRESSOR PLANT FOR BMP & ITS VARIANTS	SPM FOR M/C OF CONNECTING ROD, CYLINDERS AND PISTONS, AL. CASTING FACILITY, WELDING MACHINES, TURNING, MILLING, SLOTTING, GRINDING, HONING & LAPPING FACILITY & ASSOCIATED TESTING/INSPECTION FACILITES INCLUDING HIGH PRESSURE TESTING FACILITIES
57	HULL ELEC. EQPT FOR BMP & ITS VARIANTS	PRESSES, WELDING MACHINES, MILLING, TURNING, ASSY. FIXTURES, SOLDERING & ASSOCIATED TESTING/INSPECTION FACILITES
58	RADIATORS & OIL COOLERS FOR BMP & ITS VARIANTS	LEAD BATH FURNACE, PRESSES, FLARING MACHINES, CRITICAL TEST RIGS, CRITICAL MEASURING EQPTS., , WELDING, BRAZING, SOLDERING EQPTS., MACHINE SHOP & ASSY. SHOP & ASSOCIATED TESTING/INSPECTION FACILITES
59	HYDRAULIC SHOCK ABSORBERS FOR BMP & ITS VARIANTS	MACHINE SHOP INCLUDING GRINDING, BORING, HONING, LAPPING MACHINES, HEAT TREATMENT FACILITY, & ASSOCIATED TESTING/INSPECTION FACILITES INCLUDING METAL TESTING FACILITY
60	SPRING ASSY. FOR BMP & ITS VARIANTS	SPM FOR TELESCOPIC SPRING MFG, MILLING, WELDING TURNING MACHINES, ASSY. FIXTURE & LOAD TESTING & ASSOCIATED TESTING/INSPECTION FACILITES
61	MECHANICAL COMPONENTS HAVING MORE THAN FIVE CONTROL DIMENSIONS	MACHINING & ASSOCIATED TESTING/INSPECTION FACILITES
62	ELECTRONIC SUB-ASSY, ASSEMBLIES, MULTI LAYERED PCB	1. PCB DESIGNING 2. COMPONENTS SELECTION 3. ASSOCIATED TESTING/INSPECTION FACILITES
63	ELECTROCHEMICAL/ OPTOELECTRONIC/ OPTOMECHANICAL SUBASSEMBLIES / ASSEMBLIES	ASSEMBLY AND TESTING & ASSOCIATED TESTING/INSPECTION FACILITES
64	NIGHT VISION DEVICES HAVING IR & DLC COATING, PRISM HAVING MORE THAN 3 PRECISE REFRACTING FACES & WINDOW MADE OF GERMINIUM / ZINC SULPHIDE	AUTOCLAVING, VACUUM COATING, OPTICAL POLISHING, PRECISION MACHINING & ASSOCIATED TESTING/INSPECTION FACILITES

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65	PRECISE CASTING OF THE MAIN BODIES OF VARIOUS VISION MACHINE DEVICE	CASTING & PRECISION MACHINING & ASSOCIATED TESTING/INSPECTION FACILITES
66	COOLING SYSTEM	FURNACE FOR BRAZING, PRESS FOR FORMING, MFG. FACILITY FOR RADIATOR FINS, TIG & MIG, PRESSURE TESTING FACILITY, VIBRATION TESTING FACILITY, TEST FACILITIES AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES
67	DISC DRIVING ASSY	PRECISION MACHINING INCLUDING INTERNAL GEAR CUTTING FACILITIES, EXPERIENCE IN MANUFACTURING OF FRICTION CLUTCHES, TEST FACILITIES FOR TESTING THE ITEMS AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES
68	GEAR BOX WITH SUCTION PUMP AND FINAL DRIVE - RIGHT & GEAR BOX WITH DELIVERY SUCTION PUMPS WITH FINAL DRIVE - LEFT	PRECISION MACHINING, BROACHING, GEAR HOBGING & SHAPING MACHINE, CYLINDRICAL GRINDING, BORE GRINDING, SURFACE GRINDING, HONING, GEAR GRINDING & LAPPING, 3D CMM, GEAR PROFILE TESTER, GEAR ROLL TESTER & ASSOCIATED TESTING/INSPECTION FACILITES
69	TRACK ASSEMBLY	FOUNDRY FACILITY FOR FERROUS MATERIALS, PRECISION MACHINING , ASSEMBLY, RUBBERISATION OF TRACK SHOE BUSH & ASSOCIATED TESTING/INSPECTION FACILITES
70	AVIATION COMPRESSOR AK150C OR AK150CB	PRECISION MACHINING, JIG BORING, CYLINDRICAL GRINDING, LAPPING, MFG. ASSY AND TESTING OF COMPRESSORS WITH THE PRESSURE RANGE AROUND 150 KG/CM2, SOPHISTICATED INSPECTION & ASSOCIATED TESTING/INSPECTION FACILITES
71	2 TYPES OF CERAMETALLIC DISC ASSY - WITH STAMPED GROOVE	PRECISION MACHINING AND SURFACE GRINDING FACILITY, INTERNAL GEAR CUTTING MACHINE OF REQUIRED SIZE, FACILITY OF POWDER METALLURGY & ASSOCIATED TESTING/INSPECTION FACILITES
72	2 TYPES OF DISC WITH HUB ASSY	FACILITIES FOR FORGING OF ALUMINIUM ALLOY DISCS OF SIZE MIN. 665 MM, WEIGHING 90 KG AND MACHINING FACILITIES FOR FINISHING THE DISCS OF SIZE 665 MM (CNC VERTICAL TURNING LATHES ARE PREFERABLE) & ASSOCIATED TESTING/INSPECTION FACILITES
73	DISTRIBUTION MECHANISM	CNC PRECISION MACHINING CENTRE, SPLINE CUTTING, GEAR CUTTING AND GEAR GRINDING, CYLINDRICAL GRINDING, HONING, TEST FACILITIES FOR TESTING THE ITEMS AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES
74	DISC WITH OUTER TEETH & DISC WITH EXTERNAL TEETH	PRECISION MACHINING AND SURFACE GRINDING FACILITY, GEAR HOBGING MACHINE OF REQUIRED SIZE, SPM FOR TOOTH ROLLING AS PER SPECIFICATIONS & ASSOCIATED TESTING/INSPECTION FACILITES
75	ELECTRICAL DC MOTORS - GUN LOCK, MY431 MOTOR	MANUFACTURE UP TO 1KW DC MOTOR, ASSEMBLY AND TESTING OF ELECTRO MECHANICAL DEVICES HAVING ELECTRIC MOTOR AND MICRO SWITCHES, CASTINGS, TEST FACILITIES FOR TESTING THE ITEM AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES

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76	HYDRAULIC VALVES	MFG. OF HYDRAULIC VALVES OPERATING AT A PRESSURE RANGE 20KG/CM2, PRECISION MACHINING, BORING, HONING, LAPPING, CASTINGS, FORGINGS & FABRICATION WORK, MANUFACTURING OF ELECTROMAGNETS & ASSOCIATED TESTING/INSPECTION FACILITES
77	OIL PRIMING PUMPS	ASSEMBLY AND TESTING OF ELECTRO-MECHANICAL DEVICES, STATOR & ROTOR WINDING, PRECISION MACHINING, TEST FACILITIES FOR TESTING THE ITEM AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES
78	PNEUMATIC VALVES	FACILITIES FOR MFG. OF PNEUMATIC VALVES OPERATING AT A PRESSURE RANGE 150 KG/CM2, PRECISION MACHINING, BORING, HONING, LAPPING, CASTINGS, FORGINGS & FABRICATION WORK, MFG OF COMPRESSED AIR CYLINDERS, MFG OF SOLENOIDS & ASSOCIATED TESTING/INSPECTION FACILITES
79	CONTROL UNITS	FACILITY FOR COMPONENTS ASSEMBLING & SOLDERING ON PCB, ANTI STATIC, HUMIDITY FREE LAB FACILITY FOR PCB ASSEMBLING & TESTING IS DESIRABLE, EXPERIENCE IN MANUFACTURING OF SIMILAR COMPONENTS , ASSY & ASSOCIATED TESTING/INSPECTION FACILITES
80	ELECTRO MECHANICAL DEVICES	FACILITY FOR ASSEMBLING & TESTING ELECTRO MECHANICAL DEVICES LIKE DC MOTORS, MOTORISED PUMPS, RELAYS, ELECTROMAGNETS, LIMIT SWITCHES, POWER CONTACTS AND PANELS, FACILITY FOR WINDING & ASSOCIATED TESTING/INSPECTION FACILITES
81	AUTOMATIC LOADING GEAR - ALG	FACILITY FOR MANUFACTURING AND ASSEMBLY OF ELECTRICAL, ELECTRONIC & ELECTRO MECHANICAL ITEMS, CABLES, MICRO SWITCHES, PCB, MY431 MOTORS, ELECROMAGNET & TESTING LAB FACILITY & ASSOCIATED TESTING/INSPECTION FACILITES
82	TRACK	FORGING, CNC PRECISION MACHINING, DRILLING, BORING, BROACHING, SPM FOR ROLLING OF TRACK PIN, TEST RIG, TEST FACILITY AS PER QAI, TY (RUSSIAN) SPEC. & ASSOCIATED TESTING/INSPECTION FACILITES
83	STARTER GENERATOR	FACILITY FOR ASSEMBLING & TESTING DC GENERATORS OF MINIMUM 20 KW, WINDING & PRECISION MACHINING, TEST FACILITIES FOR TESTING THE ITEMS AS PER QAI & TY (RUSSIAN) & ASSOCIATED TESTING/INSPECTION FACILITES
84	TACHO GENERATOR AND ELECTRIC SPEEDOMETER SENDING UNIT DRIVE	FACILITY FOR MINIATURE MOTOR, GENERATOR ASSEMBLY & PRECISION ELECTRO MECHANICAL UNITS, PRECISION MACHINING CENTRE, FACILITY FOR ELECTRICAL CABLES , FLEXIBLE SHAFT AND GEARS & ASSOCIATED TESTING/INSPECTION FACILITES