LIST OF PRODUCTS TO BE INDIGENISED

S No.	Name of the Product	Photograph	Specifications	QPS	Qty procured during last three years	Quantity offered to Industry	Any other Relevant Detail
1	Incandescent Signalling LAMP	7-XIV	12V DC, 20 Watts Lumens required: 140 min. Operating temperature: -60°C to +85°C. Internal resistance without electrical load 05.to 1.0 Ohm Should withstand Mechanical & Environmental tersts.	QUANTITY PER SET: 01	7900 nos	2000 Nos after NC-NC Deevelopment	
2	OKFOL Explosive Composition	Used in Warhead for Missile	OKFOL 3.5 (HMX+WAX).Shelf life 20 years min. Acceptance: Chemical Analysis Safety certification Performance analysis by penetration test Vendors must have valid license for handling / manufacturing and supply of explosive compositions, warheads and igniters etc.	2.5 kg	10000 Kg	6000 kgs after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.
3	Sustainer Charge	ANOTANIA CARGO	Double Base propellant. NCNG composition.Pressure ≤ 200Kgf/CM². Total Impulse ≥ 230Kgf.Sec Minimum burning time 4.3 seconds Operating temperature-50°C to +50°C	QPS: 01	Nil	2000 Nos after NC-NC Development	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.

LIST OF PRODUCTS TO BE INDIGENISED

S No.	Name of the Product	Photograph	Specifications	QPS	Qty procured during last three years	Quantity offered to Industry	Any other Relevant Detail
4	LED 3L107B & Photo diode		LED: Radiation power 9 mW min. Forward Voltage DC: 2V max. Radiation wave length: 940 - 965 nM Weight: 0.2 gm max Photo Diode: Darc Current: 0.1micro Amps max Operating voltage: 30V max Weight: 1 Gm max.	QPS: 02	16600 No's	5000 Sets after NC-NC Deevelopment	
5	OMA Explosive Composition	Used in Warhead for Missile	OMA is an HMX based high explosive powder. Shelf life 20 years min Remark - Each private [individual] batch of composition OMA that is included in the batch, should be manufactured from the acrylic emulsion of same batch. Acceptance: Chemical Analysis Safety certification Performance analysis by penetration test Vendors must have valid license for handling / manufacturing and supply of explosive compositions, warheads and igniters etc.	2.8 Kg	227780 kgs	6000 Kgs after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.

LIST OF PRODUCTS INDIGENISED (KEPT IN THE PORTAL FOR SECOND SOURCE DEVELOPMENT)

	LIST OF PRODUCTS HADIGERISED (REFT HATTHE FORTAET ON SECOND SOURCE DEVELOPMENT)								
S	S No.	Name of the Product	Photograph	Specifications	QPS	Qty procured during last three years	Quantity offered to Industry	Any other Relevant Detail	
	1	Igniters-Four types	CONTROL PRINCIPAL DE LA CONTROL DE LA CONTRO	Electric igniters with (a)Instantaneous Thrust (b&c) chemical delay mechnism(d) delay & Pressure.NFC:50mA for 5 minutes.Pulse(a)0.3A. (b,c&d) 1A for 10mSec.	(a)Gyro Pusher Igniter: 02 (b)Inductor Bush Igniter: 01 (c)Sustainer Igniter: 01 (d)Control Section Igniter: 01	5000 sets	2000 Sets after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.	
	2	Flat Flexi cables	Sch-226	Material: Conductors Pure soft annealed copper. Insulation: Film made of Polyimide resin duly bonded with fluoro plastic glue that should with stand at 400°Cfor 3 minutes Operating temperature ranges: A60°C to +125°C B. +400°C for a period of 3 minutes without repetitive usage. Operating electrical circuits: A. 10V AC, 8000Hz B. 100V AC, 3000Hz C. 150V DC	10x0.08 Variety: 1.26 meter Length. 4x0.08 Variety: 500 mm Length	a) 5129 mts b) 2504 mts	1000 Meters after NC-NC Deevelopment		
	3	Warhead		1. Tandem Warhead with SAM . 2. High Explosive(HMX based) filled Hollow shaped Charge(Cone shaped). 3. Intended to defeat ERA and RHA 4. Specifications: a. Length – 251mm b. Diameter-122mm c. Weight 4.9Kg Vendors must have valid license for handling / manufacturing, staorage and supply of explosive compositions, warheads and igniters etc.	QPS: 01	8000 nos	2000 Nos after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.	

LIST OF PRODUCTS INDIGENISED (KEPT IN THE PORTAL FOR SECOND SOURCE DEVELOPMENT)

S No.	Name of the Product	Photograph	Specifications	QPS	Qty procured during last three years	Quantity offered to Industry	Any other Relevant Detail
4	Thermal Battery	INVAR- T-423	TECHNICAL SPECIFICATIONS: Voltage on Load : 12 +3.5 / -1 Volts (11 to 15.5 Volts) for sec-I & II, 24 +7.0 / -2 Volts (22 to 31 Volts) for sec-III Load : Sec.I = 9.1 Ω, Sec.II - 9.1 Ω and for Sec.IIII = 9.6 Ω No. of Sections : 03 Mass : 125 gms. Maximum Insulation Resistance : not less than 40 M Ω under normal climatic conditions Igniter Resistance : 2.5 to 3.5 Ω Firing Pulse for Igniter : 500 mA for 10□2 mSec. Thermal Battery should withstand to 5500g	QPS: 01	5000 No's	2000 Nos after NC-NC Deevelopment	
	Knock-Out- Engine (Charge)	AIII8 4911-591 4616 4911-59 2	Double Base propellant. NCNG composition.Pressure 470Kgf/cm²max. Instantaneous burning.Operation time:30mSecmax. Operating temperature-50°C to +50°C.	780 Gms	12,000 kgs	100 Kgs after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.
6	Warhead		1. Tandem Warhead with SAM . 2. High Explosive(HMX based) filled Hollow shaped Charge(Cone shaped) 3. Intended to defeat ERA and RHA 4. Specifications: a. Length – 213mm b. Diameter-125mm Vendors must have valid license for handling / manufacturing and supply of explosive compositions, warheads and igniters etc.	QPS: 01	4000 No's	2000 Nos after NC-NC Deevelopment	Vendors must have valid license for handling / manufacturing supply explosive compositions, warheads and igniters etc.

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