

TECHNICAL SPECIFICATION FOR SHELL 155 mm HE M1A4 (BT) FOR 155/39 mm FH 77B BOFORS, 155/45 mm SOLTAM AND 155/52 Cal Gun

1. Technical specification and Functional Requirements.

Sr No.	Parameter	Details
(a)	Mass of the Projectile (Nominal)	42.84 - 45.34 kg
(b)	Length of the Projectile	843 mm
(c)	Dia over Nub	154.69 mm (max)
(d)	Dia over DB	157.86 mm (max)
(e)	Main filling	TNT
(f)	Maximum Range	24 km
(g)	Reliability	95%
(h)	Temperature Range	(i) Firing limits : -20 to +60 ° C. (ii) Storage limits : -40 to + 55 ° C + 1140 W/m ² solar radiation equivalent to + 71° C
(j)	<u>Dispersion/Probable Error</u> Range Line	0.96 % (max) 2 mils (max)
(k)	Compatible Charges	Green bag, White bag, Charge 8, Charge 9 & BMC
(l)	Shelf Life	15 Years
(m)	Max QE at projectile can fire	70°
(n)	Gun Compatibility	(i) 155/39 calibre: FH 77B , ULH and equivalent cannons. (ii) 155/ 45 calibre Guns. (iii) 155/52 calibre guns
(p)	Maximum Pressure	The projectile shall be capable of withstanding a firing pressure of 444 MPa with no premature detonation.
(q)	Compatible Fuzes	(i) Mechanical Fuze – PDM 572 C1 (ii) Electronic Time Fuze –M85P13PD3A, M85 P13 A3 and any other equivalent fuze.

2. Packing–

(a) Shells are packed in unit load on wooden pallet containing 12 shells in each unit.

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1. Technical specification and Functional Requirements.

Sr No.	Parameter	Details
(a)	Mass of the Projectile (Nominal)	42.84 - 45.34 kg
(b)	Length of the Projectile	861 mm
(c)	Dia over Nub	154.69 mm (max)
(d)	Dia over DB	157.86 mm (max)
(e)	Main filling	TNT
(f)	Maximum Range	30 km
(g)	Reliability	95%
(h)	Temperature Range	(i) Firing limits - -20 to +60 ° C. (ii) Storage limits : -40 to + 55 ° C + 1140 W/m ² solar radiation equivalent to + 71° C
(j)	<u>Dispersion/Probable Error</u> Range Line	1.2 % (max) 2.5 mils (max)
(k)	Compatible Charges	Charge 8 & 9 & BMC
(l)	Shelf Life	10 Years
(m)	Max QE at projectile can fire	70°
(n)	Gun Compatibility	(i) 155/39 calibre: FH 77B , ULH and equivalent cannons. (ii) 155/ 45 calibre Guns. (iii) 155/52 calibre guns
(p)	Maximum Pressure	The projectile shall be capable of withstanding a firing pressure of 444 MPa with no premature detonation.
(q)	Compatible Fuzes	(i) Mechanical Fuze – PDM 572 C1 (ii) Electronic Time Fuze –M85P13PD3A, M85 P13 A3 and any other equivalent fuze.

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