## TECHNICAL SPECIFICATION OF VERY SHORT RANGE AIR DEFENCE (VSHORAD)

Ser	Fact	Technical Specification	<u> </u>
1.	Name	Very Short Range Air Defence (VSHC	
2.	Country of Origin	Group B	JI VALD)
3.	Country of Manufacture	Group B	
4.	Country of Assembly	Group B	
5.	Year of Manufacture	Not before the contract year	
6.	System Configuration	Standard Configuration: Every 100 sets of	
		products include:	
		a. Missile in Tube (MIT)	100 Sets
		b. Firing/Launching Un	50 Sets
		c. Battery Cooling Unit (BCU)	200 Sets
'		d. MIT Packing box	50 Sets
		e. Optical Aiming Device (OAD)	50 Sets
		f. IR Night Sight	10 Sets
		g. IFF device (Optional)	=
		h. Test Equipment	
		(1) Comprehensive Test cabin (CTC)	01 Set
		(2) Portable Test Equipment	03 Sets
		J. Training Equipment	
		(1) Operation Training Equipment	03 Sets
		(2) Digital Aiming Training Equipment	03 Sets
•		(3) Teaching Training Material	05 Sets
7.	Maximum Range	To be mentioned	
8.	Minimum Range	To be mentioned	_ = 1
9.	Maximum Attitude/Height	To be mentioned	
10.	Minimum Height	To be mentioned	
11.	Type of Target	Armed helicopter, jet fighter UAV, cruis	se missile,
40	Marian Tarant O I	etc.	· · · · · · · · · · · · · · · · · · ·
12. 13.	Maximum Target Speed	To be mentioned	····
13.	Maximum Maneuverable Overload of Target	To be mentioned	
14.	Single Shot Kill Probability (SSKP)		
	a. Aircraft	To be mentioned	
		To be mentioned	
	b. Missile	To be mentioned	
	:	To be mentioned	
15.	Identification of Friend or FOE (IFF)	To be mentioned	
	(Optional): Details such as Model of IFF		
	interrogator, operational mode etc to be		
	mentioned. The IFF must match with the		•
	IFF system used by BAF. Detail		•
	information on BAF's IFF system will be		
	provided by the users on request.		<i>\$</i>
16.	Electronic Counter Measure (ECCM)	To be mentioned in details	<u> </u>
17.	Capability Number of Crew(s)	To be mentioned	
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18.	Missile in Tube (MIT)	To be monthly al
	a. Total Length	To be mentioned
	b. Total Weight	To be mentioned
	c. Shelf life of MIT	Minimum 15 years
ļ	d. Missile Unit	
-	(1) Length	To be mentioned
	(2) Diameter	To be mentioned
	(3) Weight	To be mentioned
İ	(4) Guidance System	IR Passive Horning/ Initial guidance + Proportional
	(a) Operational Waveband	navigation + terminal stage adaptive correction  To be mentioned
	(b) IR instantaneous FoV	To be mentioned
:	(c) IR scanning half FoV	To be mentioned
	(d) IR Searching half FoV	To be mentioned
	(e) IR Tracking half FoV	To be mentioned
	(5) Seeker	Dual spectrum (near infrared and middle infrared)
	(6) Warhead	Di
	(a) Type	Blast and fragmentation
	(b) Weight/Mass	To be mentioned
	(c) Effective killing Radius	To be mentioned
	(7) <u>Fuze</u>	
	(a) Type of Fuze	Both Impact and proximity
	(b) Fuze Operating Distance	To be mentioned
	(c) Circular Detection Range of Fuze	Maximum detecting range 3m
	(d) Self Destruction Time	To be mentioned
	(8) Propulsion	Solid
	(9) Cruising Velocity	To be mentioned
	(10) Available over Load ('g' Factor)	To be mentioned
19.	Launch Tube	
13.	a. Total Length	To be mentioned
	b. Weight	To be mentioned
•	c. Bore sight Base line	To be mentioned
20.	Launching Unit	TO DO MISHIONIO
20.	a. Function	Ground energy activation, gyro run-up, missile
	a. Function	working state analysis and indication, missile
		ignition and lunching control, etc.
	b. Control Mode	Trigger has two steps, one step controls uncaging, the other step controls firing.
	367: 54	To be mentioned
	c. Weight	To be mentioned
-	d. Scale	TO BE INCURRED
21.	Battery Cooling Unit (BCU)	To be mentioned
	a. Weight	To be mentioned
	b. Minimum Operation Time	To be mentioned
	c. Scale	To be mentioned
22.	Optical Aiming Device (OAD)	
	a. Use	Used in daylight
	b. Magnification Ratio	To be mentioned
	c. FoV	To be mentioned
	d. Resolution	To be mentioned
	e. Weight	To be mentioned
	f. Scale	To be mentioned
23.	IR Night Sight	
/ 1	AC	Used in all weather
23.	a Use	USEU III ali wealiei
23.	a. Use	
23.	b. FoV	To be mentioned
23.	b. FoV c. Detection Range	To be mentioned To be mentioned
23.	b. FoV	To be mentioned

	Fact	Technical Specification
Ser	f. Weight	To be mentioned
	g. Type of Battery	To be mentioned
	h. Scale	To be mentioned
24.	Test Equipment	
	a. Composition	To be mentioned
	b. Configuration	To be mentioned
	c. Scale	To be mentioned
25.	Training Equipment	
	a. Composition	Operation training equipment, simulation aiming
		training equipment, launching training equipment,
		teaching training equipment.
	b. Operation Training Device (OTD)	
;	(1) Composition	To be mentioned
	(2) Scale	To be mentioned
	c. Aiming Training Device/ Training	
	Simulator	To be mentioned
	(1) Composition	To be mentioned
	(2) Scale	TO DE MEMONEU
	d. Launch Training Equipment (LTD)	To be mentioned
	(1) Composition (2) Scale	To be mentioned
	e. Teaching Training Equipment	ro ao menantra
	(Cutaway model) (TTE)	
	(1) Composition	To be mentioned
	(2) Scale	To be mentioned
26.	Training Requirement: Technical	To be mentioned in details
20.	training includes three parts, i.e.	
	weapon system theory training, weapon	
	Weapon system theory training, weapon	
	system operation training, test system	
	operation and repair training. Weapon	
	system theory training mainly explains	
	the general principle of weapon system.	
	Weapon system operation training	
	makes trainee grasp the skills of	
	weapon system operation and routine	
	maintenance. Test system operation	
:	and repair training makes trainee grasp	
	the operation and maintenance method	
	of test system.	
27.	Spare Parts	To be mentioned in details
28.	Requirement Of Analyzer, Measuring &	To be mentioned in details
20.	Testing/Fault Finding And Diagnostic	
	Set, Special Service Tools (SST),	
	Special Service Materials (SSM) And	
	Publications	
29.	Model Validity	Minimum 15 years
30.	Warranty	At least 01 (One) year
31.	Special Service Tools (SST) for:	To be mentioned
	a. Missile in Tube: Set with Qty	
	b. Digital Aiming Training Equipment:	
1	Set with Qty	
1	c. Operation Training Equipment: Set	
<b>,</b>	I	1
Ì	with Qty	
	d. Teaching Training Equipment: Set	

Ser	Fact	Technical Specification
32.	Fast Moving Spare Parts for:	To be mentioned
JZ.	a. Missile in Tube: Set with Qty	
	b. Launching Unit: Set with Qty	
	c. Battery Cooling Unit: Set with Qty	
33.	Slow Moving Spare Parts for:	To be mentioned
	a. Missile in Tube: Set with Qty	
	b. Launching Unit: Set with Qty	
	c. Optical Aiming Device: Set with Qty	
	d. IR Night Sight: Set with Qty	
	e. Digital Aiming Training Equipment:	
	Set with Qty	
	f. Launch Training Equipment: Set with	
	Qty	•
	g. Operation Training Equipment: Set	
	with Qty	
	h. Teaching Training Equipment: Set	
	with Qty  i. Comprehensive Test Cabin: Set with	
·		
	Qty   k. Portable Tester: Set with Qty	
	I Pyrotechnical Meter: Set with Qty	

