

RESTRICTED

DP-5

ANNEX D TO
DGDP TENDER NO 219.200.23
DATED: 21 APRIL 2024

TECHNICAL SPECIFICATION OF FREE FALL HELMET

Ser	Nomenclature/Description	Technical Specification	To be Filled up by the Principal/Manufacturer
PART-1: GENERAL SPECIFICATION			
1.	Nomenclature	Free Fall Helmet	
2.	Type/Model	To be mentioned	
3.	Brand Name	To be mentioned	
4.	Colour	As per user requirement	
5.	Year of manufacture	Not earlier than contracted year	
6.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and web address)	To be mentioned	
7.	Name of Principal with complete address (Office address, Telephone, Fax, Email and web address)	To be mentioned	
8.	Name of Local Agent with complete address (Office address, Telephone, Fax, Email and web address)	To be mentioned	
9.	Country of Manufacture	GP-A	
10.	Country of Origin	GP-A	
11.	Country of Assembly	GP-A	
12.	Port of Shipment	GP-A	
13.	Should have the provision of fixing Night Vision Goggles, Head Phone and Eye Protection Goggles	To be mentioned	
14.	NVD/NVG attachment system (One point attachment system with leather, male-female screw & washer used by BD Army)	To be mentioned	
15.	Side attachment system	To be mentioned	
PART-2: TECH SPECIFICATION			
10.	Fit	Revamped internal design for better fit	
11.	Fitting	Easy fitting to audible altimeters	
12.	Design	Cool inside due to the ventilation design	
16.	Material	Kevlar fiber	
17.	Protection Level	Level IIIA	
18.	International Standard	As per National Institute of Justice (NIJ) Std for Ballistic Resistance Protective Materials, USA. NIJ Standard-0108.01	
20.	Bullet resistance	Must provide protection against 9 mm FMJ fired at a muzzle velocity of 426 ± 14 m/sec (As per NIJ Level IIIA)	
21.	Ballistic Properties	If Cartr 9 mm FMJ is fired perpendicularly on the Helmet at a distance of 5 meters, the bullet should not pierce through and not occur any trauma. It may ricochet or preferably remain embedded on the layers of the helmet shell. After firing, if trauma is occurred, the limit of the trauma should not be uncomfortable to the user, Uncomfortable trauma is not acceptable	

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Ser	Nomenclature/Description	Technical Specification	To be Filled up by the Principal/Manufacturer
22.	Ear Protection	To be mentioned	
23.	<u>Size</u>		
	a. <u>Small</u>		
	(1) Head Circumference/Shape	21"	
	(2) Length x Width x Height	To be mentioned	
	(3) Weight	To be mentioned	
	(4) Wall thickness	To be mentioned	
	b. <u>Medium</u>		
	(1) Head Circumference/Shape	22"	
	(2) Length x Width x Height	To be mentioned	
	(3) Weight	To be mentioned	
	(4) Wall thickness	To be mentioned	
	c. <u>Large</u>		
	(1) Head Circumference/Shape	23"	
	(2) Length x Width x Height	To be mentioned	
	(3) Weight	To be mentioned	
	(4) Wall thickness	To be mentioned	
24.	Compatibility for NVG mount (Monocular and Binocular), microphone and radio-telephone system	To be mentioned	
25.	<u>Components of the Helmet (Size: Small, Medium and Large)</u>		
	a. Helmet Shell	To be mentioned for different size	
	b. Harness (Standard 4-point harness system featuring fast release buckle and flexible chin cup)	To be mentioned	
	c. Colour of Harness	Black/Olive green/Khaki/Combat or As per user requirement	
	d. Padding (Helmet padding available for increased trauma protection)	To be mentioned	
	e. Nylon tape for head band {Length, Width, Breaking strength, Sunlight test (48 hours) should not change in shade}	To be mentioned for different size	
	f. Rexene pad for neck back rest (folded)	To be mentioned for different size	
	g. Velcro for head band	To be mentioned for different size	
	h. High quality nylon tape for chin strap	To be mentioned for different size	
	j. Chin strap	To be mentioned for different size	
	k. Fixing Buckle (Should be made of High-density nylon. It should not brittle due to weather effect. Dimension as per requirement)	To be mentioned	
	l. Rivet/Screw (Should be made of copper/High quality alloy steel. Dimension as per requirement)	To be mentioned	
	m. Central webbing {2xnylon Tap, Circle (Nylon cloth)}	To be mentioned for different size	
	n. Support for upper head (should be made of nylon cloth. Dimension as per requirement)	To be mentioned	
	p. Adjustment buckle	To be mentioned for different size	
	q. Locking	To be mentioned for different size	



Ser	Nomenclature/Description	Technical Specification	To be Filled up by the Principal/Manufacturer	
26.	Operating/Storage Condition.			
	a. Operating temperature range	-15° C to +55° C		
	b. Storage temperature range	-25° C to +60° C		
	c. Humidity permissible condition for operation	95%		
	d. Maximum permissible humidity condition for storage	100%		
	e. Operation during Fog, Rain and snow	Should be possible		
27.	Warranty	05 Years		
28.	After Sales service	05 Years		
29.	Model validity	Should be 10 years form signing of the contract		
30.	Shelf life	Minimum 10 years		
PART-3: TRAINING REQUIREMENT				
13.	User Training			
14.	Operation, repair and maintenance training	Not required		
15.	Equipment management training			
PART-4: REPAIR AND MANAGEMENT REQUIREMENTS LESS LIST OF SPARE				
16.	a. SST/Measuring & testing/fault finding and diagnostic set b. SSM c. Publications (1) Owners/Operations Manual in English (Book Type) including CD/DVD (2) Workshop/Repair Manual in English (Book Type) including CD/DVD (3) 100% updated master spare parts catalogue in English (Book Type) including CD/DVD (4) Complete and updated master spare parts price catalogue/ List in English (Book Type) including CD/DVD	May not be required		
PART-5: LIST OF SPARES				
17.	List of spares		Following to be provided for each helmet as per user requirement a. 01×Screw driver/Allen key to be provided (as applicable). b 01×Carry bag (Standard quality) for carrying helmet.	
PART-6: TOOLS LIST FOR DIFFERENT LEVEL OF MAINTENANCE				
18.	Tool list for different level of maintenance		To be provided as per user requirement	
PART-7: FINANCIAL SPECIFICATION				
19.	Financial aspects	To be mentioned separately in the financial offer		

