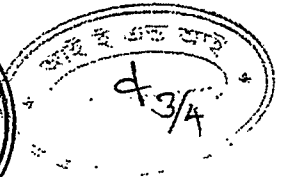
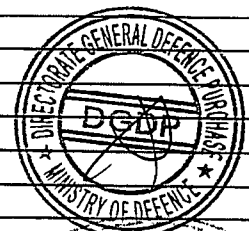



TECHNICAL SPECIFICATION OF HALO AND HAHO GEAR SET (DP-5)

Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
PART-1:GENERAL SPECIFICATION			
1.	Nomenclature	HALO and HAHO Gear Set Incl Accessories	
2.	Brand and Model	To be mentioned	
3.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned	
4.	Name of Principal with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned	
5.	Name of Local Agent with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned	
6.	Year of Production	Not before the calendar year of contract	
7.	Country of Origin	Group A and EU Countries	
8.	Country of Manufacture	Group A and EU Countries	
9.	Country of Assembly	Group A and EU Countries	
10.	Port of Shipment	From Manufacturer Country	
11.	Generation	SOLR/SHADOW/Equivalent/Latest Generation	
12.	General Description/Purpose		
	a. Suitable for HALO and HAHO jump		
	b. Appropriate level of thermal protection for HALO and HAHO jumper		
	c. Easy and proper fitting for different users		
	d. Oxygen Mask with anti-suffocation Valve and wireless Head to Communication Set.		
13.	Composition of HALO and HAHO Gear Set: Following items to be available with the HALO and HAHO Gear Set:		
	a. HALO and HAHO Helmet	Ops-CORE/SHADOW Ballistic Helmet/Equivalent	
	b. Thermal Insulated Jump Suit (Olive Green –Large, Medium and Small)	Thermal Suit 01 or 02 Piece	
	c. Head to Head Communication set	Should be Compatible with the HALO/HAHO Gear Set	
	d. Oxygen Container Cylinder (Ballout Bottle)	SOLR or SHADOW/Equivalent	
	e. Mini/Wrist GPS	All weather, Power saving	
	f. Oxygen Mask with Microphone (Anti-suffocation)	Should have internal Microphone and Anti- suffocation Valve	
	g. Navigation Equipment (Foldable)	Foldable, Light weight, Water Resistance, Shock Proof, day and night operatable	
	h. Altimeter	Analog or digital, light weight wrist band	

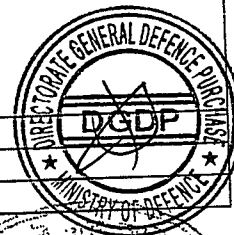


Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
	Oxygen Systems		
	a. Oxygen Console (with Expansion Kit)	8/10 man Oxygen console with Expansion kit	
	b. Pre Breather	Should be supplied with aircraft harness	
	c. Oxygen Booster Pump	Should have preset outlet hoses equipment for booster pump	
	d. Test Stand (Portable)	Should be able to calibrate all equipment in the field or at home.	
PART-2: TECHNICAL SPECIFICATION			
HAHO AND HALO GEAR			
2A HALO AND HAHO Helmet			
14.	Nomenclature	HALO AND HAHO Helmet	
15.	Brand	Ops-CORE (Gentex) or SHADOW Ballistic or Equivalent	
16.	Model	Ops-CORE Ballistic or SHADOW Ballistic or Equivalent	
17.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned	
18.	Country of Origin	Group A and EU Countries	
19.	Country of Manufacture	Group A and EU Countries	
20.	Country of Assembly	Group A and EU Countries	
21.	Color	Olive	
22.	General Purpose/Use	Personal safety including ability to Secure and carry the materials of Head to Head Communication Set for HALO/ HAHO Jump	
23.	Physical Specification		
	a. Material	Resin bound aramid or Equivalent	
	b. Flame Resistant	Yes	
	c. Sizes		
	(1) Medium		
	(a) Head Circumference	20-22 Inch	
	(b) Chinstrap Sizing Guide (Head & Face Circumference)	24.5 - 27.5 Inch	
	(c) Weight	1.36 - 1.38 Lbs	
	(2) Large		
	(a) Head Circumference	22.5-23.25 Inch	
	(b) Chinstrap Sizing Guide (Head & Face Circumference)	26 - 29 Inch	
	(c) Weight	1.47 - 1.49 Lbs	
	d. Adjustable	Yes	
	e. Harness design	Dial System or Equivalent	
	f. Internal Padding	Advance Pad System or Equivalent	
	g. Night Vision Compatible	Yes	
	h. Rail Compatible	Yes	
	j. Ballistic Warranty	Minimum 10 Years	
	k. Parts Warranty	Minimum 10 Years	
	l. Standard Color	Olive	
	m. NIJ Standards	NIJ 0106.01 with NIJ 0108.01	
	n. Protection level	Level IIIA (9mm FMJ @1,400 ft/s) Threats	

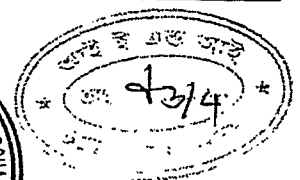


Ser	Description	Specification	To be filled up by the Principal /Manufacturer			
(a)	(b)	(c)	(d)			
2B Thermal Insulated Jump Suit						
24.	Nomenclature	Thermal Insulated Jump Suit				
25.	Brand	Double Zip/Two Piece Insulated				
26.	Model	Thermal version				
27.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned				
28.	Name of Principal with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned				
29.	Name of Local Agent with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned				
30.	Country of Origin	Group A and EU Countries				
31.	Country of Manufacture	Group A and EU Countries				
32.	Country of Assembly	Group A and EU Countries				
33.	Color	Olive/Green				
34.	General Purpose/Use	Designed to be worn over combat clothing to provide an additional layer of protection against environmental temperatures that can be easy done before HAHO and removed after HAHO parachute operation				
35.	Physical Specification					
	a. Design	Double Zipper or Two part				
	b. Weight	Maximum 3.2 Kg				
	c. Size	Size	Height	Chest circumference	Sleeve Length	The inside Length of Trouser Leg
		Small	5'6" to 5'10"	36" to 39"	24" to 25"	30" to 31"
		Medium	5'8" to 6'	39" to 41"	25" to 26"	31" to 32"
		Large	5'10" to 6'6"	41" to 44"	27" to 28"	32" to 33"
	d. Color	Olive/Green				
	e. Temp Range	Down to -60°C				
	f. Materials (Should be able to provided Thermal Protection at a altitude to 30,000 fit)					
	(1) Basic Cloth	Black Cloth Face side- Polyester Back side-Nylon pasted with foam	Ash Cloth 65 ± 50% Polyester 35 ± 5% Cotton			
	(2) Type of Weave	Mesh (Multi component fabric)	2/1, 2/1, 2/1---			

Ser	Description	Specification		To be filled up by the Principal /Manufacturer
(a)	(b)	(c)		(d)
	(3) Weight per squire meter(GSM)	220+10 gm	250+10 gm	
	(4) Count/Denier of Yarm (Warp & Weft)	-	13.0 ^s /90 ^s	
	(5) No of base & bias in 2.54 cm Wales & Course	32/33 Nos & 47/48 Nos	-	
	(6) No of threads in 2.54 cm Warp Weft	-	85/86 Each single 38/39 Each single	
	(7) Identification of Panton colour code	19-3911 TCX (3.821)	16-3915 TCX (2.533)	
	(8) Washing Test No-2 (ISO-105 C02) (a) Soap (Alkali free)- 0.2% (b) Temperature-60°C (c) Time -1 ½ (One & half) hours	Grey scale rating 4	Grey scale rating 4	
	(9) Sunlight test (72 hours) ISO-105 Bo2	Grey scale rating 4	Grey scale rating 4	
	(10) Resistance to Abrasion (10,000 cycles) ISO-12947-4	Rating Grade 4	Rating Grade 3	
	g. Map Pocket Size	Standard		
	h. Sleeve pocket Size	Standard		
	j. If any Specification/featured	Details to be mentioned		
36.	List of Standard Accessories for full range of Operation	List to be submitted and Provided as per standard		
37.	List of Optional Accessories	List to be Submitted		
38.	Operating/Storage Condition			
	a. Operating Temperature range	-50 to 50°C		
	b. Storage temperature	-5 to 60°C		
	c. Humidity	0 to 100%		
	2C. Head to Head communication Set			
39.	Nomenclature	Head to Head communication Set (Personal Role Radio)		
40.	Brand	To be Mentioned		
41.	Model	To be Mentioned		
42.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned		
43.	Country of Origin	Group A and EU Countries		
44.	Country of Manufacture	Group A and EU Countries		
45.	Country of Assembly	Group A and EU Countries		
46.	Color	Olive or Black		
47.	General Purpose/Use	The Head to Head Communication Set to Communicate with each other within short distance on air. Multiple at a time must be suitable for use in tropical climate/all-weather condition		
48.	Frequency Range	Between 330-530 MHz		
49.	Number of memory Channel	Minimum 12		
50.	Communication Range	Minimum 1000 m		



Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
51.	RF Power Output		
	a. Minimum	2 Watt	
	b. Maximum	3 Watt	
52.	Power Supply System/Battery	Operate with DC Power Supply (Battery)	
	a. Country of Manufacture	Group A and EU Countries	
	b. Year of production	Not before the calendar year of contract	
	c. Voltage and Ampere (AH)	Details to be mentioned	
	d. Number of Battery	02 Number 01 as standard for each and 01 additional Battery for Backup to be provided	
	e. Type of Battery	Must be a rechargeable battery Type (NiMH/Li-Ion/Gel/MF) (to be specified by Bidder)	
	f. Condition operation time of Battery	Minimum 08 hours of condition operation	
	g. Charging System/Facility	To be Charging system/available	
	h. Charging facility through AC power 220V AC±10% at 50 Hz	To be available	
	j. External and Internal provision of charging battery from Solar charger (at ambient)	Preferable, Details to be Mentioned	
	k. Charger/Adapter for AC Power	Standard/Suitable Charger to be provided	
	l. Charger/Adapter for Solar Charger (If Available)	Standard/Suitable Charger to be provided	
53.	Security Feature/Encryption Facility	Must be available. Details to be mentioned	
54.	Data Communication (If available)	To be mentioned	
55.	Voice Activated Transmission	Preferable. Details to be mentioned	
56.	Number of Earpiece	Double	
57.	Earpiece Level	>100 mW @ 600Ω	
58.	Head set Cable length	>1 Meter	
59.	Robustness	Head Set cable, earpiece, mouth piece must be robust and Mil grade	
60.	Provision of external antenna	To be Mentioned , If applicable	
61.	Shut off Feature	To be available, Details to be mentioned	
62.	Physical Specification		
	a. Weight of the Radio Set (With Battery and Antenna)	Maximum 400 gm	
	b. Dimension (H X W X D)	To be Mentioned	
	c. Height with Antenna	To be Mentioned	
	d. Antenna port	SMA or Any other (To be Mentioned)	
	e. Color	Black or Olive	
	f. Adjustable	Yes	
63.	Operating/Storage Condition		
	a. Operating Temperature	-50° to 50°C	
	b. Storage Temperature	-20° to 60°C	
	c. Humidity	0 to 100%	
64.	Arms Strap	a. Radio set must be fixed comfortably with arm having arm strap with shoulder support. b. Clip to be provided for fixing the set on the wrist.	



Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
65.	List of standard accessories with part number	a. For each head to head communication set (Personal Radio) with following accessories: (1) Transceiver- 01 No (2) Holster / carrying case -01 (3) Battery-02 (4) Headset-01 (5) Charger-01 (6) Wireless PTT-01 (7) Owner's/ Operator's Manual-01 (8) Arm strap with shoulder support-01 No (Radio to be fixed comfortably with arm) b. Programming kit with software-01 c. Any other hardware/software for complete operation.	
66.	List of optional accessories with part number	a. Additional Battery b. Light weight Headset/Speaker Mic. c. Li-ion Battery charger d. Solar charger e. Any other, to be mentioned	
2D. Container Cylinder (Bailout Bottle)			
67.	Nomenclature	Container Cylinder (Bailout Bottle)	
68.	Brand	SOLR or SHADOW or Equivalent	
69.	Model	SOLR or SHADOW or Equivalent	
70.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be Mentioned.	
71.	Country of Origin	Group A and EU Countries	
72.	Country of Manufacture	Group A and EU Countries	
73.	Country of Assembly	Group A and EU Countries	
74.	Color	Manufacture Standard (To be Specified by Bidder)	
75.	General Purpose/Use	During the HALO/HAHO Jumper will use this bottle while descending for taking Oxygen.	
76.	Oxygen Bottle/Container/Cylinder Type	Carbon fiber wrapped Medium aluminum Composite	
77.	Oxygen Type	Aviator Oxygen	
78.	Bottle/Container/Cylinder Fill Pressure	207 bar (3000 psi) to 310 bar (4500 psi)	
79.	Out let Pressure	40-50 Psi	
80.	Expanded Gas Volume	Min 404 litter Max 414 Litre	
81.	Cylinder Water Volume	122 cu.in.(2 ltrs)	
82.	Physical Specification		
	a. Unfilled Weight of Bottle/Container/ Cylinder	2.00 Kg to 2.5 Kg	
	b. Filled Weight of Bottle/Container/ Cylinder	6-7 lbs	
	c. Dimension (WxDxH)	Height -12 inch to 18 inch	
	d. Color	Manufacture Standard	
	e. Adjustable	Yes	

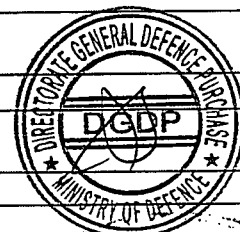


Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
83.	Product Interfaces	Following Port/Interface to be Provided	
	a. Fill port-IAW AN800 OR equivalent standard	To be Provided	
	b. Outlet Fitting- Quick Disconnect facility	To be Provided	
84.	List of Standard Accessories	Socket (Males with 1/8 inch plug) and more (If available) to be offered by Bidder	
85.	List of Optional Accessories	Charging System (Optional) to be offered by Bidder	
86.	Operating/Storage Condition		
	a. Operating Temperature range	-50 to 50°C	
	b. Storage Temperature range	-20° to 60°C	
	c. Humidity	0 to 100%	
	d. Operation during Fog, Rain and Snow	To be Possible	
	e. Altitude (Ceiling)	Minimum 25000 ft Maximum 35000 ft	
87.	Environmental Standard/Aspects		
	a. Vibration proof	MIL STD-810G	
	b. Splash/Rain	Not to be affected by rain or splashing	
2E. Global Positioning System (Wrist GPS)			
88.	Nomenclature	Global Positioning System (GPS)	
89.	Brand	Garmin or Equivalent	
90.	Model	To be mentioned	
91.	Country of Origin	Group A and EU Countries	
92.	Country of Manufacture	Group A and EU Countries	
93.	Country of Assembly	Group A and EU Countries	
94.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
95.	Name of Principal with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
96.	Name of Local Agent with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
97.	General Purpose/Use	To observe offline map, Real time map and must be all weather fit	
98.	Number of Satellite Coverage	Minimum 3 Numbers and details to be mentioned	
99.	Display Unit (Type, Size and Resolution)	TFT, color display, size-1.6" to 2.0" diagonal Resolution-100x64 pixels to 200x 128 pixels, Luminous facility to read the information at night/ dark	
100.	Position Accuracy	Less Than 5 m/5 yd	
101.	Operation/Reaction time	Minimum 1 meter	
102.	Built in Memory/Storage capacity	Min 10 GB Storage	

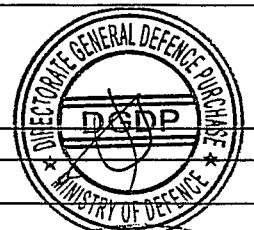


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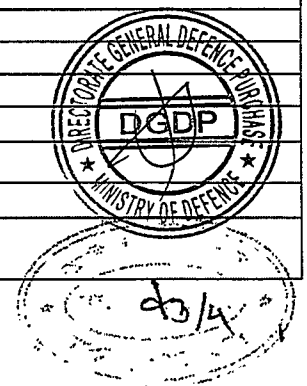
Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
103.	Continuous Operation Time	Minimum 8 hours continuous operations	
104.	Power Supply System/Battery		
	a. Country of Manufacture	Group A and EU Countries	
	b. Year of production	Not before the calendar year of contract	
	c. Voltage and Ampere (AH)	Details to be mentioned	
	d. Number of Battery	02 Number 01 as standard for each and 01 additional Battery for Backup to be provided	
	e. Condition operation time of Battery	Minimum 08 hours of condition operation	
105.	Maps and Memory	Base Maps- Latest version of Google offline world map up to track details level or equivalent	
106.	Specification/Features		
	a. Dimension (HXWXD)	To be mentioned	
	b. Display Size	2.0" Diagonal	
	c. Weight at functional Condition	Maximum 100gm with Batteries	
	d. Color	Manufactured Standard	
	e. Battery limit	Minimum 48 hours GPS mode	
	f. Interface	USB-C	
	g. Number of Way Point	Minimum 500	
	h. Tracks	Minimum 100	
	j. Navigation Track log	1000	
	k. Navigation Routes	Minimum 50	
	l. Barometric Altimeter	Preferable	
	m. Sun and Moon Information	Preferable	
107	Basic features		
	a. Route planning and guidance capability	Yes	
	b. Distance determination capability	Yes	
	c. Luminous facility to read the information at night/ dark	Yes	
	d. Sensors	High Sensitivity, GPS, GLONASS, BEROMETERCA, Altimeters, BAIDU	
	g. Compass	Yes	
	h. Wireless connectivity	Yes	
108.	Operating/Storage Condition:		
	a. Operating Temperature range	-50 to 50°C	
	b. Storage Temperature range	-5 to 60°C	
	c. Humidity	0 to 100%	
	d. Operation during Fog, Fair and Snow	To be Possible	
	e. Altitude	Minimum 25000 ft Maximum 35000 ft	
109.	Environmental Standard/Aspects		
	a. Drop	06 drops from 120 cm height on natural hard surface	
	b. Vibration proof	10 (Ten) Minutes @ 250 RPM	
	c. Immersion Test	IP 67	



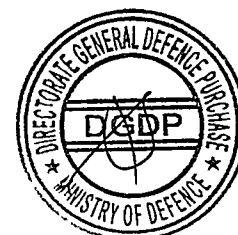
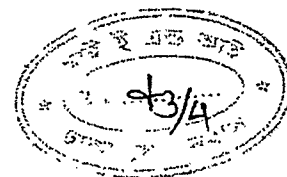
Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
110	List of Standard Items	1 x GPS 2 x Sets Battery (One set as additional) 1 x Casing 1 x AC Charger 1 x USB data cable	
2F. Oxygen Mask with Microphone (Anti-Suffocation)			
111.	Nomenclature	Oxygen Mask with Microphone (Anti-Suffocation Valve)	
112.	Brand	SOLR or SHADOW or Equivalent	
113.	Model	SOLR or SHADOW or Equivalent	
114.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
115.	Country of Origin	Group A and EU Countries	
116.	Country of Manufacture	Group A and EU Countries	
117.	Country of Assembly	Group A and EU Countries	
118.	Color	Manufacture Standard	
119.	General Purpose/Use	To Provide oxygen for HAHO/ HALO Jump	
120.	Material	Silicon face Interface or Equivalent	
121.	Physical Specification:		
	a. Medium	Oxygen	
	b. Weight	Light weight	
	c. Sizes	2 to 5 Sizes (S, M, L)	
	d. Filter	2.8 to 5.5 bar (40 to 80 psi)	
	e. Internal Pressure Range	4.5 – 5.5 bar	
	f. Flow Rate	Upto 150 SLPM	
	g. Inhalation Resistance	25 mm H2O	
	h. Exhalation Resistance	≤U10 mm H2O	
	j. Anti- Suffocation Valve	≤10 mm H2O	
	k. Mouth Piece	Compatible to Head to Head Comm Set	
122.	List of Standard Accessories for full range of operation (If applicable)	Details to be mentioned.	
123.	List of Optional Accessories	Details to be mentioned.	
124.	Operating/Storage Condition		
	a. Temperature	-50 to 50°C	
	b. Altitude	Minimum 25000 ft Maximum 35000 ft	
2G. Navigational Equipment (Foldable)			
125.	Nomenclature	Navigation Equipment (Foldable)	
126.	Brand	JTRAX or Operators kit, Galaxy S20, Jumpable plate carrier 2.0 or Equivalent	
127.	Model	To be mentioned	
128.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
129.	Country of Origin	Group A and EU Countries	
130.	Country of Manufacture	Group A and EU Countries	
131.	Country of Assembly	Group A and EU Countries	
132.	Color	Manufacture Standard	



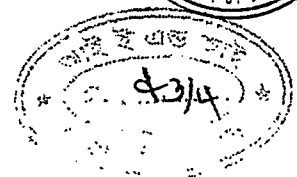
(a)	(b)	(c)	(d)
133.	General Purpose/Use	a. To aid in navigation to the intended impact point	
		b. To be able to show the altitude Compass, night mode and all-weather condition	
134.	Physical Specification		
	a. Design	To provide the Jumpers with navigation guidance using a single device.	
	b. Weight	750 gm to 1000 gm	
	c. Dimension	To be Mentioned	
	d. Display Unit	Panasonic or Equivalent	
	e. Precession Unit Compass	Marine ball Compass or Equivalent	
	f. Harness	Chest Harness	
	g. If any other specifications/features	To be Provided	
	h. All Weather	Yes	
	j. Range	Minimum 15 miles	
	k. Altitude	Minimum 25000 ft Maximum 35000 ft	
	l. Direction	All Direction	
135.	List of Standard Accessories	To be Provided	
136.	List of Optional Accessories	To be Provided	
137.	Operating/Storage Condition		
	a. Operating Temperature range	-50 to 50°C	
	b. Storage Temperature range	-20 to 60°C	
	c. Humidity	0 to 100%	
2H. Altimeter			
138.	Nomenclature	Altimeter	
139.	Brand	Alti-2 or Military Alti track or Equivalent	
140.	Model	Alti-2 or Military Alti track or Equivalent	
141.	Country of Origin	Group A and EU Countries	
142.	Country of Manufacture	Group A and EU Countries	
143.	Country of Assembly	Group A and EU Countries	
144.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
145.	General Purpose/Use	To Indicate altitude based on Baro Metric Pressure	
146.	Range	Minimum 35000 ft	
147.	Display Unit (Type, Size and Resolution)	Type Backlit digital LCD, size – Maximum 2.5x2x.6inch	
148.	USB Rechargeable	Minimum 6 weeks	
149.	Water Resistance	IP 68	
150.	Mode	Simple	
151.	Jump Logging	Minimum 1000	
152.	Velcro Wrist	Yes	
153.	Eco	Eco Friendly	
154.	Compatible in Pressurized aircraft	Must be Compatible in aircraft Pressure	
155.	Power Supply System/Battery		
	a. Country of Manufacture	Group A and EU Countries	
	b. Year of production	Not before the calendar year of contract	
	c. Number of Battery	02 Numbers	
	d. Type of Battery	To be mentioned	
	e. Continuous operation time of Battery	Minimum 48 hours	



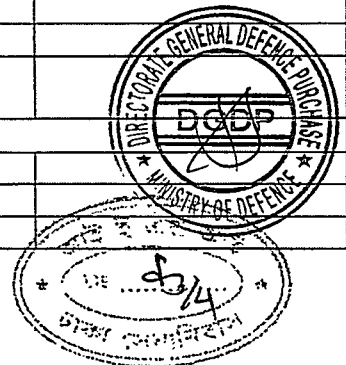
Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
156.	Physical Specification		
	a. Dimension (WxDxH)	To be mentioned	
	b. Weight at functional condition	Light Weight	
	c. Color	Manufacture Standard	
157.	Operating/Storage Condition		
	a. Operating Temperature range	-50 to 50°C	
	b. Storage Temperature range	-5 to 60°C	
	c. Humidity	0 to 100%	
	d. Operation during Fog, Rain and Snow	To be Possible	
158.	Environmental Standard/Aspects		
	a. Drop	06 drops from 120 cm height	
	b. Vibration proof	10 (Ten) Minutes @ 250 RPM	
3A Oxygen Console (with Expansion Kit)			
159.	Nomenclature	Oxygen Console (with Expansion Kit)	
160.	Brand	SOLR or SHADOW or Equivalent	
161.	Model	Oxygen console-3000 or Equivalent	
162.	Country of Origin	Group A and EU Countries	
163.	Country of Manufacture	Group A and EU Countries	
164.	Country of Assembly	Group A and EU Countries	
165.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
166.	General Purpose/Use	The Oxygen console, which supplements the new Bailout bottle, is a portable multi-station oxygen console to designed to contain and distributed regulated oxygen for pre breathing to Minimum 8 user on board the transport aircraft	



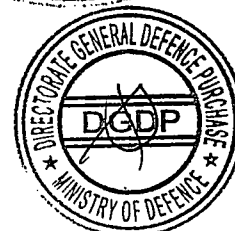
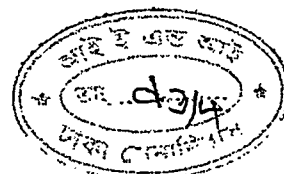
Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
167.	Physical Specification		
	a. Console dimension	To be mentioned	
	b. Weight	Uncharged without hoses- Minimum 100 lbs Maximum 150 lbs Fully Charged- 150 lbs	
	c. Gauges	Cylinder Pressure- 0-3000 psi Regulator Pressure- 0-160 psi	
	d. Manifold outlets	Type- Quick Disconnect Thread Size- 1/8-27NPT Quantity- Minimum 8 per oxygen console	
	e. Cylinders	Quantity- 03 Capacity – 2700 cu.in Pressure – 3000 psi	
	f. Regulator	Inlet Pressure- 3000 psi Out let pressure- 65-75 psi	
	g. Charging fitting	Size and Type- Compatible with MS22066-3	
	h. Operational parameters	Altitude- 35000 ft max Temperature Min -50° C	
	j. Expansion Kit	Minimum 3 kit should be attached	
168.	Product Interfaces:		
	a. Fit port	Details to be mentioned	
	b. Outlet Fitting	Quick disconnect for all low pressure fitting	
169.	List of Standard Accessories	Details to be mentioned	
170.	List of Standard Optional Accessories	To be mentioned	
171.	Environmental Standard/Aspects		
	a. Temperature	-50° to 50°C	
	b. Humidity	0 to 100%	
	c. Altitude	Minimum 25000 ft Maximum 35000 ft	
3B Pre Breather			
172.	Nomenclature	Pre Breather	
173.	Brand	SOLR or SHADOW or Equivalent	
174.	Model	Pre Breather 4500 or Equivalent	
175.	Country of Origin	Group A and EU Countries	
176.	Country of Manufacture	Group A and EU Countries	
177.	Country of Assembly	Group A and EU Countries	
178.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
179.	General Purpose/Use	To provide a portable pre-breathing capability for HALO/HAHO Jump	
180.	Physical Specification		
	a. Maximum Psi	4500 psi	
	b. Pre breathing time	Minimum 140 min	
	c. Cylinder fill pressure	4500 psi	
	d. Weight (unfilled)	Approx 3.75 kg	
	e. Expanded gas Volume	Approx 1457 ltrs at 310 bar	
	f. Cylinder Water Volume	Approx 285 cu.in(4.7 Mtr)	
	g. Cylinder type	DOT (4500 psi) carbon fiber wrapped, aluminum lined composite	



Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
181.	Operating Environment		
	a. Temperature	-50° to 50° C	
	b. Humidity	0 to 100%	
	c. Max Altitude	Minimum 25000 ft Maximum 35000 ft	
3C Oxygen Booster Pump			
182.	Nomenclature	Oxygen Booster Pump	
183.	Brand	SOLR or SHADOW or Equivalent	
184.	Model	Booster C2X or SOLR or Equivalent	
185.	Country of Origin	Group A and EU Countries	
186.	Country of Manufacture	Group A and EU Countries	
187.	Country of Assembly	Group A and EU Countries	
188.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
189.	General Purpose/Use	To fill Pre breather and bailout bottle safety	
190.	Physical Specification		
	a. Design	Electric/Non Electric	
	b. Weight	To be mentioned	
	c. Dimension	To be mentioned	
	d. Boost Ratio	Minimum 1 to 8	
	e. Filter	In line filter to mitigate contaminates from source Oxygen	
191.	Operating environment		
	a. Temperature	-50 to 50°C	
	b. Humidity	0 to 100°C	
3D Test Stand (Portable)			
192.	Nomenclature	Test Stand (Portable)	
193.	Brand	SOLR or SHADOW or Equivalent	
194.	Model	Specific Model to be Mentioned	
195.	Country of Origin	Group A and EU Countries	
196.	Country of Manufacture	Group A and EU Countries	
197.	Country of Assembly	Group A and EU Countries	
198.	Name of Manufacturer with complete address (Office address, Telephone, Fax, Email and Web address)	To be mentioned	
199.	General Purpose/Use	To Calibrate the Pre breather, bailout bottle and other oxygen system.	
200.	Physical Specification		
	a. Design	To be mentioned	
	b. Weight	To be mentioned	
	c. Dimension	To be mentioned	
	d. Compatible with	All Oxygen Equipment	
201.	Operating environment		
	a. Temperature	- 50° to 50°C	
	b. Humidity	0 to 100°C	
202.	List of Standard Accessories/BOQ to be given here		
3E. Applicable for all Items:			
203.	Model Validity	Minimum 10 Years	
204.	Warranty/Guarantee	Minimum 02 Years	
205.	After Sales Service	Minimum 10 Years	



Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
3F. List of items accessories/ BOQ			
206.	HALO and HAHO Helmet	10:1	
207.	Thermal Insulated Jump Suit (Olive Green-Large, Medium and Small)	10:1	
208.	Head to Head communication Set	10:1	
209.	Container Cylinder (Bailout Bottle)	10:1	
210.	Global Positioning System (Wrist GPS)	10:1	
211.	Oxygen Mask with Microphone (Anti-Suffocation)	10:1	
212.	Navigational Equipment (Foldable)	10:1	
213.	Altimeter	10:1	
214.	Oxygen Console (with Expansion Kit)	2:1	
215.	Pre Breather	5:1	
216.	Oxygen Booster Pump	1:1	
217.	Test Stand (Portable)	1:1	
218.	Any other items/accessories not mentioned above but required for full range of operation/smooth function, of the offered HALO and HAHO Gear Set with all accessories are to be mentioned and must be supplied free of cost	Details to be Provided	
PART-3: TRAINING REQUIREMENT			
219.	<u>User Training:</u>		
	a. Operation and Safety training with Jump Master training.	As per requirement of Para Cdo Bde	
	b. Repair and Maintenance training.	As per requirement of EME Dte	
	c. Equipment Management training	As per requirement of Ord Dte	
	d. Foreign training will be conducted after PSI is completed.		
PART-4: REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES			
220.	<u>Repair And Maintenance Requirement Less List of Spares:</u>		
	a. SST	As per Appendix 2 of Annexure E	
	b. SSM	Not required	
	<u>c. Pub:</u>		
	(1) Owners/ Operations Manual in English (Book Type including CD/DVD)	To be Provided (As per requirement of EME Dte)	
	(2). 100% Updated Master Spare Parts Catalogue in English (Book Type including CD/DVD)	To be Provided (As per requirement of EME Dte)	
	(3) Complete and Updated Master Spare Parts price Catalogue in English (Book Type including CD/DVD)	To be Provided (As per requirement of EME Dte)	
	(4) Workshop/Repair Manual in English (Book Type)	To be Provided (As per requirement of EME Dte)	



Ser	Description	Specification	To be filled up by the Principal/Manufacturer
(a)	(b)	(c)	(d)
PART-5: LIST OF SPARES			
221.	a. Spares kit, lv2, solr bailout bottle , 5 yrs	Approx 08 Item	
	b. Spares kit solr pre breather, 5 yrs	Approx 11 Item	
	c. Spares kit,lv2 solr mask 100%, 5 years	Approx 15 Item	
	d. Spares kit, oxcon 3000	Approx 15 Item	
PART-6 TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE			
222.	a. Tool kit, solr operator	Approx 14 Item	
	b. Tool kit, solr bailout/prebreather, level 2	Approx 26 Item	
	c. Tool kit, solr mask,level 2	Approx 15 Item	
	d. Tool kit, oxcon3000, level 2	Approx 12 Item	
	e. Accessories kit, pts, oxcon	Approx 14 Item	
PART-7: LIST OF OPTIONAL ITEMS			
223.	List of optional items with Price	To be Provided	

23/4

