

Sports and Recreational Equipment and Supplies and Accessories UNSPSC : 49000000									
Watersports Equipment UNSPSC:49140000									
Scuba and Snorkeling Gear UNSPSC: 49141500									
(Breathing Apparatus with compressed Air Cylinder) Diving Instruments or Accessories UNSPSC: 49141504 - 02									
S No	Parameters	Value 1	Value 2	Value 3	Validation	Unit	Remarks		
GENERIC									
1	Conformity to Indian/ International Standrad	Breathing appratus with compressed air cylinder to be used to conduct under-water search and rescue operation.					M		
CONSTRUCTION									
A		6A	Cylinder						
1	Breathing appratus with compressed air cylinder	yes						M	
2	Cylinder Pack	Pack of 2 cylinders (1 main and 1 reserve)						M	
3	Cylinder capacity	8	10	12			ltr	M	
4	Cylinder material	Aluminum alloy		Stainless steel	Carbon Composite fiber			G	
5	Air /oxygen storage Capacity	≥2400					ltr	G	
6	Weight Of empty Cylinder	≤ 15 kg					Kg	M	
7	Operating Pressure	200≤N≤ 300					bar	M	
8	Reserve air capacity	Reserve air should be enough to diver for breathing more than 15 minutes						M	
9	Operating Temperature	Suitable in all temperatures including those below 10 C / 50 F and is environmentally sealed						M	
10	Cylinder Certification	Certified by Indian Explosives Department or PESO Nagpur						M	
B	6B Full Face Mask with breathing Demand Valve								
1	Full Face Mask Application	Designed for underwater utilization for emergency,commercial & technical uses.						M	
2	Comfort & weight	Comfortable to wear and weight less than 900 gram						M	
3	Mask Vision	Wide view vision visor and shape suitable for use of Spavvctacles for the wearer						M	

4	Visor Material	made of scratch & impact resistant transparent polycarbonate with wide visual field.		M
5	Head Harness Straps	6 nos, all directly attached to the face to the face shield in the design that allows the pressure to be transmitted uniformly along the Mask's Skirt.		M
6	Air circulation in the mask will minimize fogging of the Lens and reduce the amount of CO and CO2 builtup in the inhaled air	yes		M
7	Mask will be equiped with a surface valve allowing the Diver to breath fresh air when on surface and save precious air	yes		M
8	Face mask also have provision for communication system (DUCS or WUCS) or Video Camera or Torch when Required	yes		M
9	The Face Mask will be supplied complete with an Integrated second stage Regulator(demand valve) and can be connected to the 1st stage regulator via a	yes		M
10	Certification of Face Mask	Certified to EN 250		M
C	6C Regulator Unit			
1	Regulator Unit along with a cosole for pressure gauge (0-350bar) and depthgauge (0-80meter)	A pressure compensated regulator unit with first stage regulator to convertcylinder high pressure to low pressure having two high pressure port and 4 low pressure ports,		M
D	6D Buoyancy compensating device			
1	BCD BUOYANCY COMPENSATOR JACKET WITH BACKPACK	The BCD Harness Structure will be comfortable to wear and have provision for mounting the cylinder and other accessories on the set.		M
2	BCD will come with adjustable straps so as to make fit and ensure free movement to the diver.	yes		M
3	BCD should be fitted with inflation option through main cylinder or mouth piece, deflation through 3 rapid dumping valves including 2 over-pressure	yes		M
4	Pockets / recess for detachable weight in BCD	Available		M

5	5 nos stainless steel D-rings for attaching accessories on BCD	yes						M
6	Single Blader material	outside Cordura 1000 /inside nylon 420D						M
7	Certification for BCD	CE Certified to standard EN1809						
E		6E Octopus						
1	Octopus	An additional second stage with hose for use in emergency in case air supply to face mask fails or for use by the buddy diver. It will connect to the 1st stage.						M
2	In case diver does not want to use full face mask then the breathing valve with mouthpiece should be enough for the use under water	yes						M
3	Mouthpiece should have separate inhale and exhale channels so that the moisture from the diver can not get deposited in the inlet section of the breathing	yes						M
4	additional half face mask should be provided with the equipment	yes						M
2	Regulator Unit	yes	No					
3	Buoyancy compensating device	yes	No					
4	Octopus	yes	No					
5	Main Cylinder	yes	No					
6	Independent Reserve Pony Bottle Unit for emergency breathing	yes	No					
	Equipment suitable for Semi-positive pressure so as not to allow any water retention in the mask	yes						
	Optimized for underwater communications	yes						

	Double seal silicone face skirt for comfort and fit	yes						
	Customizable nose block for equalization	yes						
	Low profile with excellent field of view	yes						
	Hose connects on right of mask for simple configuration	yes						
	Easily adjustable head straps & robust buckles	yes						
	Ambient Breathing Valve (ABV) fitted as standard	yes						
	Easily removable 2nd stage regulator for storage	yes						
	Service kit and technician training available	yes						
	Fully CE certified with Apeks or other overbalanced 1st stage regulators	yes						
1	Material	Non corrosive material with long life					M	
2	Harness	Equipment to be provided with belt type harness attached with non corrosive metal Buckel.Belt should be provided webbing strap style which should be going over the shoulder of the diver.At the top of the shouldera loop to be provided for attaching life line.					M	
	Life Line	made with 8mm Poly Propelene Rope						
	Length of life Line	≥100 meter						
	visible yellow mark on every 3 meter of life line	yes						

	visible Red mark on every 15 meter of life line	Yes						
	stainless steel carabineer for attachment at both end of rope	yes						
	Harness on which the cylinder is mounted ,to enable divers donning the compress air cylinder	yes						
3	Full Pack Mask with Breathing / Demand Valve	Yes					M	
4	Pressure Regulator Unit as per EN-250 standard	Yes					M	
5	LED lights	Yes					M	
6	Number of LED	5	6				MF	
7	Weight of complete Breathing Apparatus with fully charged cylinder in air	N ≤ 20			≤ 20	Kg	MF	
8	Weight of complete Breathing Apparatus with fully charged cylinder under water	N ≤ 3			≤ 3	Kg	MF	
PERFORMANCE								
1	Nonminal Capacity of Breathing Apparatus	8	10	12		litres	MF	
2	Charging Pressure	200 to 250 Bars	251 to 300			Bars	MF	
3	Capacity of Breathing Apparatus After Charging	≥ 2400 litres			≥ 2400	litres	MF	
CERTIFICATION								
1	Availability of Type Test Report to prove conformity of parameters to the specification from any ILAC/NABL accredited/Central Govt Lab	Yes					M	
2	Test Report Number						M	
3	Test Report Date						M	
4	Name of the Lab where test Conducted						M	
5	Test Reports to be furnished to the buyer on demand	Yes					M	
6	Warranty Period	2	3	5		year	G	
7	Service warranty at consignee end	5	10			year	G	