

DEEP SEARCH METAL DETECTOR (DSMD)

**Major Product Category:- Military Weapon and Ammunition Djsarmament and Disposal Equipment and related Products (UNSPC Code: 4622);
Sub Category:- Demining Equipment and related Products (UNSPC Code: 462215)**

Version- 2

Item:- DEEP SEARCH METAL DETECTOR (DSMD) (Mine detector) (UNSPC CODE: 46221513) (ITC_HS Code: 85438920)

Demand aggregation : On ITC HS Code and the Code generated by the system thereon

S.No	Parameters		Value 1	Value 2	Value 3	Value 4	Validation Rule	Whether Filter required	Priority	Unit	REMARKS	
1	Physical Characteristics of the detector and its accessories	Ch	Light in weight and made of noncorrosive material such as, Aluminium, Carbon fiber, Glass fiber etc.									
2	Material of the detector and its accessories	Ch					Must Declare					
3	Construction details	Ch	Search Head connected with a telescopic rod which allows prolonged usage by the operator in kneeling, standing and laying position without causing undue fatigue for both minimum and maximum possible extension.									
4	Length of the telescopic rod in collapsed position	N					$630 <= N <= 770$			mm	Must be 700 mm +/- 10%	
5	Length of the telescopic rod in extended position	N					$1440 <= N <= 1760$			mm	Must be 1600 mm +/- 10%	
6	Maximum Weight of the telescopic rod and Search Head	N					$N <= 2$			Kg	Must be ≤ 2 Kg	
7	Maximum Weight of the Electronic control unit	N					$N <= 2$			Kg	Must be ≤ 2 Kg	
8	The maximum operating weight of the equipment including telescopic rod, search head and electronic control unit	N					$N <= 4$			Kg	Must be ≤ 4 Kg	
9	Maximum Weight of the backpack carrying bag / case including accessories of the detector	N					$N <= 4.5$			Kg	Must be ≤ 4.5 Kg	
10	Maximum Total Weight of the complete detector equipment including carrying bag / case and transport box	N					$N <= 11$			Kg	Must be ≤ 11 Kg	
11	Transport, storage and Transit of the detector and its accessories	Ch	Light weight, durable compact backpack carrying bag / case capable of surviving in all adverse environmental conditions. The backpack carrying bag / case is kept inside a Transport box which is ruggedized enough to with stand shock and drop from a 3 Mtr. height, without suffering any damage to the transport box body or detector equipment									
12	Material of the Transport box	Ch					Must Declare					
13	Shape of the Search Head (The search Head may be in any shape, i.e. circular, oval, rectangular etc.)	Ch					Must Declare				May specify such as, circular, oval, rectangular etc.	
14	Total area of the Search Head	N					$210 \leq N \leq 710$			Sq cm	Must be between 210 and 710 sq.cm	
15	Protection to electronic circuit in case of battery leakage	Ch	Hermetically sealed and separate from batteries to protect from battery leakage									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
16	Earphone	Ch	Allows usage both with and without earphone									
17	Volume control	Ch	Yes									
18	Audio Out put	Ch	Through Speaker. Alternatively only in the earphone when plugged in									
19	Power control and Sensitivity control	Ch	Having power control and sensitivity control to detect all types of ferrous/ nonferrous metals.									
20	Visual display (preferably on the handgrip or on search head)	Ch	To indicate detection and proximity of target metal & Low battery indication through LEDs visible in day light									
21	Self compensating capability	Ch	To detect the metals in different types of terrain/soil/water (including saltwater).									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
22	Detectable metals	Ch	All ferrous and nonferrous metals									

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23	Detection Capabilities in different types of soil	Ch	Detect buried mines/metals in "All type of soils including laterite (ferrous and aluminium oxides)"									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
24	Detection Capabilities under water	Ch	Detect buried mines/metals "Under water 30 cm depth"									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
25	Detection Capabilities in all weather conditions	Ch	Detect buried mines/metals in "All weather conditions from arid to pouring rain (meets international standard IP 67)"									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
26	Minimum Detection Temperature	Ch					$N <= - 20$				deg C	Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
27	Maximum Detection Temperature	Ch					$N >= + 55$				deg C	Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
28	Detection Capabilities in "Metal near Metal condition"	Ch	Capable to differentially detecting two detonators No. 27/33 placed at a distance of 1 ft apart"									Shall provide a Test Certificate from Central Govt / NABL / ILAC accredited Lab
29	Detection setting procedure	Ch	Capable of operation in air/metal free solid within 30 seconds of switching on the ofsetting switch.									
30	Trigger level/threshold control provided.		YES									
31	Size and Shape of the objects with which the test will be conducted	Ch	i) 0.15 gm metal-1 inch X 1 inch tin foil. ii) 50mm nail- thickness 03 mm and dia of head 06 mm.									
32	Detection Sensitivity for "0.15 gm metal (1 inch X 1 inch tin foil) in Free Air"	N					$N \geq 15$			cm	Must be ≥ 15 cm	
33	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm vertically in Free Air"	N					$N \geq 29$			cm	Must be ≥ 29 cm	
34	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm horizontally in Free Air"	N					$N \geq 23$			cm	Must be ≥ 23 cm	
35	Detection Sensitivity for "0.15 gm metal (1 inch X 1 inch tin foil) Under the Ground"	N					$N \geq 11$			cm	Must be ≥ 11 cm	
36	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm vertically Under the Ground"	N					$N \geq 27$			cm	Must be ≥ 27 cm	
37	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm horizontally Under the Ground"	N					$N \geq 17$			cm	Must be ≥ 17 cm	
38	Detection Sensitivity for "0.15 gm metal (1 inch X 1 inch tin foil) in Clear Water"	N					$N \geq 11$			cm	Must be ≥ 11 cm	
39	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm vertically in Clear Water"	N					$N \geq 28$			cm	Must be ≥ 28 cm	
40	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm horizontally in Clear Water"	N					$N \geq 19$			cm	Must be ≥ 19 cm	
41	Detection Sensitivity for "0.15 gm metal (1 inch X 1 inch tin foil) in Salty water (03 gm iodized common salt in 01 ltrs. of water)"	N					$N \geq 11$			cm	Must be ≥ 11 cm	
42	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm vertically in Salty water (03 gm iodized common salt in 01 ltrs. of water)"	N					$N \geq 28$			cm	Must be ≥ 28 cm	

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43	Detection Sensitivity for "50 mm nail of thickness 03 mm and dia of head 06 mm horizontally in Salty water (03 gm iodized common salt in 01 ltrs. of water)"	N					N ≥ 19			cm	Must be ≥ 19 cm	
44	Pinpointing Detection Sensitivity range	Ch	± 5 cm The distance will be taken from the centre of the search head to the centre of the object									
45	Detection tone	Ch	Distinct from the working tone									
46	Interference		Free from radio and static interference									
47	Battery	Ch	Powered by standard size commercially available dry cells as well as rechargeable cells									
48	Chemistry of rechargeable Battery	Ch					Must Declare					Must indicate such NiCd, NiMH, Li-ion, etc
49	Battery capacity	N					Must Declare				mAH	
50	Backup time of dry cells	N					N ≥ 20				hours	N ≥ 20
51	Backup time of rechargeable cells	N					N ≥ 12				hours	N ≥ 12
52	Built-in Battery charger with over charge protection	Ch	YES	No				Yes				
53	Two sets of rechargeable batteries with battery charger to be provided with each equipment.	Ch	YES	No				Yes				
54	Warranty for the equipment	N	3	4	5			Yes			Years	
55	Warranty for the battery and charger		1	2	3	N.A.		Yes			Years	
56	Availability of Spares for a period of 10 years after the warranty period	Ch	YES				Validation. YES					OEM should undertake to provide spares for 10 years
57	Availability of Test Reports from Central Govt / NABL / ILAC accredited Lab covering all the parameters as per specifications	Ch	YES				Validation. YES					
58	Test Report No.	Ch					Must Declare					
59	Name of Test Lab	Ch					Must Declare					
60	Address of Test Lab	Ch					Must Declare					
61	Hyper link to Test report	Ch					Must Declare					
							<i>G.R.K.</i>					
	(S K Jain) D(QA)						(G R K Pillai) AD(QA)					