

Laboratory and Measuring and Observing and Testing Equipment ; 41												GeM 3.0		
Measuring and observing and testing instruments ; 4111														
Land surveying instruments ; 411142														
INVAR LEVELLING STAFF ; 41114296														
S. No.	Parameter		Field Category	LOV								Unit	Comment	
PERFORMANCE / MATERIAL														
1	Nominal Length of the Staff	Measurable	Golden	0.92	1.00	1.5	1.82	2.0	3.0	4.3	5.5	meters		
2	Standard deviation of graduation	Enumerable	Golden	upto ± 10 micrometers		upto ± 15 micrometers								
3	Material of the Scale Strip (INVAR: Alloy of Iron and Nickel)	Enumerable	Mandatory	INVAR										
4	Co-efficient of thermal expansion of Invar Scale Strip	Enumerable	Golden	Less than 1 ppm per deg. C			Less than 1.5 ppm per deg. C							
5	Material of the Staff frame	Enumerable	Golden	Anodized Aluminium										
6	Material of the lower side of the foot plate / base plate	Enumerable	Golden	Hardened stainless steel		Hardened Nickel plated Chrome Alloy steel								
7	Number of Circular levels provided	Numeric	Golden	1	2									
8	Bar-coded Scale	Boolean	Golden	Yes	No									
9	Provision for adjusting zero point	Boolean	Golden	Yes	No									
10	Interchangeable edge or pin base;	Boolean	Golden	Yes	No									
11	Provided with foldable handles	Boolean	Golden	Yes	No									
12	Provided with Fittings for struts	Boolean	Golden	Yes	No									
13	Invar tape tensioned by soft spring to compensate coefficient of expansion of the staff profile	Boolean	Golden	Yes	No									
14	Back lit via electroluminescent foil which illuminates entire graduations without forming shades	Boolean	Golden	Yes	No									
15	Water-Resistant and Corrosion-Resistant Staff	Boolean	Golden	Yes	No									
16	Dual measuring faces	Boolean	Golden	Yes	No									
17	Graduation on front face	Enumerable	Golden	Bar-Code	E-graduation		mm	cm					Multi Select	
18	Graduation on back face (hint:- Select whichever are Applicable)	Enumerable	Golden	Bar-Code	E-graduation		mm	cm	Not Applicable				Multi Select	

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19	Colour of the background face	Enumerable	Golden	White	Bright Yellow		Silver			
20	Colour of the graduations (hint:- Select whichever are Applicable)	Enumerable	Golden	White	Black	Red			Multi Select	
21	Weather Resistant graduations	Boolean	Golden	Yes	No					
22	Invar Staff Illuminated with LED Lights	Boolean	Golden	Yes	No					
23	Integrated power supply (Supplied with power pack) for LED illumination	Boolean	Golden	Yes	No					
24	Compatible to automatic level measuring instruments of other makes	Boolean	Golden	Yes	No					
25	Conformity to standards	Enumerable	Mandatory / Filter	Generally conforming to IS 15483 (Part 1)-latest; Generally conforming to ISO 12858 - 1-latest						Multi Select
BATTERY										
1	Power Source for LED illumination	Enumerable	Golden	Internal - Rechargeable Battery			Internal - Alkaline (non-rechargeable) Battery		Not Applicable	
2	Chemistry of Battery	Enumerable	Golden	Li-ion	Ni-MH	Alkaline	Not Applicable			
3	Capacity of internal Battery (mAh) (May indicate '0' if Not Applicable)	Numeric	Mandatory / Filter	Range: 0 to 6000						
4	Battery operating Time (May indicate '0' if Not Applicable)	Measurable	Golden	0, 5, 6, 8, 10, 12, 15, 16, 20, 24					hours	Higher is Better
5	Number of Batteries required for operation (May indicate '0' if Not Applicable)	Numeric	Golden	0	1	2	3	4		
6	Number of Batteries Supplied (May indicate '0' if Not Applicable)	Numeric	Golden	0, 1, 2, 4, 6, 8						
7	Battery Charger for Rechargeable Batteries inclusive in the scope of supply	Enumerable	Golden	Yes	NA					
SALIENT FEATURES										
1	Salient Features (hint:- Select whichever are Applicable)	Enumerable	Golden	Not Applicable; With screw holes for attachment directly to structures; With two interchangeable bases; With attachable Laser receiver brackets; Print (graduations) protected by polyester coating						Multi Select
ACCESSORIES										
1	Accessories inclusive in the scope of supply (hint:- Select whichever are Applicable)	Enumerable	Golden	Not Applicable; Pair of telescopic struts suitable for the Staff; Ground Plate; Cip-on bubble; User Manual; Transport Case for 2 Staffs; Transport Case for each Staff						Multi Select

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GENERIC									
1	Weight	Measurable	Mandatory					kg	AKBNV
2	Overall Dimensions (Size) (mm X mm X mm)	Text	Mandatory						AKBNV
3	Compatible make, model and type of the automatic level measuring instruments	Text	Mandatory						AKBNV
4	Additional Features, If Any	Text	-						AKBNV
5	List of Items and Quantity of each Item Included in the Offer	Text	-						AKBNV
ENVIRONMENTAL CONDITIONS									
1	Minimum Operating Temperature (Accuracy to be maintained within the operating range)	Measurable	Mandatory / Filter	0	-10	-15	-20	Temp / degree C	Lower is Better
2	Maximum Operating Temperature (Accuracy to be maintained within the operating range)	Measurable	Mandatory / Filter	40	50	55		Temp / degree C	Higher is Better
4	Ingress Protection	Ordinal	Golden	Not Applicable (0), IP 53 (1), IP 54 (2), IP 55 (3), IP 56 (4), IP 57 (5)					
WARRANTY									
1	Warranty	Measurable	Golden	1, 2, 3				Year	Higher is Better
CALIBRATION / CERTIFICATIONS									
1	Supplied with Expansion co-efficient certificate (inclusive in the scope of supply)	Boolean	Golden	Yes	No				
2	Supplied with length calibration certificate (inclusive in the scope of supply)	Boolean	Golden	Yes	No				
3	Calibration Certificate issuing authority	Measurable	Golden	OEM Certificate		NPL	NABL / ILAC accredited agency	Not Applicable	
4	Test Report No. and Date (May indicate 'NA' if not applicable)	Text	Mandatory						AKBNV
5	Name of the Lab and Address (May indicate 'NA' if not applicable)	Text	Mandatory						AKBNV

AKBNV: Allow Key But Not Value

Creator (s)

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