

**Laboratory and Measuring and Observing and Testing Equipment ; 41**

**Measuring and observing and testing instruments ; 4111**

**Land surveying instruments ; 411142**

**Automatic Optical Level ; 41114210**

**GeM  
3.0**

S. No.	Parameter	Field Type	Field Category	LOV							Unit	Comment
<b>OPTICS</b>												
1	Magnification (in X)	Numeric	Golden	20, 24, 28, 30, 32, 36, 40								Higher is Better
2	Telescope Image	Enumerable	Mandatory	Erect								
3	Gas - filled Telescope	Enumerable	Mandatory / Filter	Yes	No							
4	Objective Lens Aperture	Measurable	Golden	25	30	32	36	40	42	45	mm	
5	Field of View	Enumerable	Golden	1°15'	1°20'	1°25'	1°30'	1°35'				
6	Minimum Focus Distance from the center of the Instrument	Measurable	Golden	0.3, 0.5, 0.6, 0.7, 0.75, 0.8, 1.0, 1.1, 1.25, 1.5, 1.6, 1.75, 2.0							meter	Lower is Better
<b>PERFORMANCE</b>												
1	Parallel Plate Micrometer	Enumerable	Mandatory	With	Without							
2	Accuracy (Standard Deviation per 1 km double - run levelling), without Micrometer	Measurable	Golden	0.7, 1.0, 1.2, 1.5, 1.6, 1.8, 1.9, 2.0, 2.5							mm	Lower is Better
3	Accuracy (Standard Deviation per 1 km double - run levelling), with Micrometer (May indicate '0' for without micrometer)	Ordinal	Golden	0 (0)	0.5 mm (1)	0.4 mm (2)	0.3 mm (3)					
4	Circular Vial (Bubble) Accuracy (per 2 mm)	Measurable	Golden	6	8	10				Plane Angle / minutes		
5	Multiplication Constant	Enumerable	Mandatory	100								
6	Additive Constant	Enumerable	Mandatory	0								
7	Reticle Illumination	Boolean	Golden	Yes	No							
8	Graduation on Horizontal Scale / Circle (hint:- Gon = Gradian)	Enumerable	Golden	360 degree			360 degree / 400 gon selectable					
9	Graduation Interval (Better Than or Equal to)	Enumerable	Golden	1°	1° / 1 gon							

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<b>COMPENSATION</b>								
1	Compensator	Enumerable	Golden	Magnetic - damped Compensator with Automatic compensation			Air - damped Compensator with Automatic compensation	
2	Compensator Range (±)	Measurable	Golden	15	16	30	Plane Angle / Minutes	Higher is Better
3	Compensator Setting Accuracy	Measurable	Golden	0.3	0.5		Plane Angle / seconds	Lower is Better
<b>SALIENT FEATURES</b>								
1	Salient Features (hint:- Select whichever are Applicable)	Enumerable	Golden	Not Applicable; Horizontal fine motion screws with Double-sided endless drive for fast and easy aiming; With parallel plate micrometer with measuring range of 10 mm; Integrated Collimator; With Peep Sight; With Gun Sight; With 1-Speed Focusing Knob; With 2-Speed Focusing Knob; With Cross-line Reticle pattern; With Wedge type Reticle pattern				Multi Select
<b>ACCESSORIES</b>								
1	Accessories inclusive in the scope of supply (hint:- Select whichever are Applicable)	Enumerable	Golden	Diagonal eyepiece; 40X exchangeable eyepiece with adopter; Lens Cap; Plumb Bob; Vinyl Rain Cover; Sunshade; Cleaning Cloth; Allen keys; Hexagonal Wrench; Tool Kit; Adjustment Pin; User Manual, Carrying Case				Multi Select
<b>GENERIC</b>								
1	Weight	Measurable	Mandatory				Kg	AKBNV
2	Dimensions (Size) (mm X mm X mm)	Text	Mandatory					AKBNV
3	Additional Features, If Any	Text	-					AKBNV
4	List of Items and Quantity of each Item Included in the Offer	Text	-					AKBNV

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<b>ENVIRONMENTAL CONDITIONS</b>										
1	Minimum Operating Temperature	Measurable	Mandatory / Filter	0	-10	-15	-20		Temp / degree C	Lower is Better
2	Maximum Operating Temperature	Measurable	Mandatory / Filter	40	50	55			Temp / degree C	Higher is Better
3	Ingress Protection	Ordinal	Golden	Not Applicable (0), IP 53 (1), IP 54 (2), IP 55 (3), IP 56 (4), IP 57 (5)						
<b>WARRANTY</b>										
1	Warranty	Measurable	Golden	1, 2, 3, 4, 5					Year	Higher is Better
<b>CERTIFICATIONS</b>										
1	Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the specification	Boolean	GOLDEN	Yes	No					
2	If Yes, Test Report to be furnished to the Buyer on demand	Enumerable	Mandatory / Filter	Yes	NA					
3	Test Report No. and Date (May indicate 'NA' if not applicable)	Text	Mandatory							AKBNV
4	Name of the Lab and Address (May indicate 'NA' if not applicable)	Text	Mandatory							AKBNV

**AKBNV: Allow Key But Not Value**

**Creator (s)**

TA - Sumit Dhaka

AD - GRK Pillai

**Modifier**

DCEO - SK Jain

**APProver (s)**

ACEO - HRS / ACEO - PS