

Laboratory and Measuring and Observing and Testing Equipment : 41000000											GeM 3.0	
Measuring and observing and testing instruments : 41110000												
Metals and metallurgy and structural materials testing instruments : 41114600												
Concrete Test Hammer (Rebound Hammer) : 41114603												
S. No.	Parameter	Field Type	Field Category	LOV							Unit	Comment
PERFORMANCE												
1	Application	Enumerable	Mandatory	To measure the surface hardness of the concrete surface, which can be correlated to the in-situ compressive strength of concrete close to the surface.								
2	Display of Rebound Value Reading	Enumerable	Golden	Analog / Graduated Scale	Digital	Both Analog and Digital						
3	Impact Energy (Approximate) (Nm)	Measurable	Golden	0.735 to 0.75	2.207 to 2.25		Selectable between 0.75 and 2.25		30			
4	Maximum Thickness of structural component for testing	Enumerable	Golden	Less than 100 mm	100 mm and above							
5	Lowest Measurable Compressive Strength	Measurable	Golden	5, 10							MPa	
6	Highest Measurable Compressive Strength	Measurable	Golden	60, 70, 80, 90, 100, 110, 120, 130, 140, 150							MPa	
7	Resolution (in Rebound Index Number, R-Value)	Measurable	Golden	0.1	0.2	0.3	0.4	0.5	1			
8	Accuracy (in Rebound Index Number, R-Value) (when tested on calibration anvil at 80)	Numeric	Golden	0.1	0.2	0.3	0.4	0.5	1	2		
9	Compressive Strength Conversion units for user selection	Enumerable	Mandatory / Filter	Mpa	N/mm ²	kg/cm ²	psi	NA			Multi Select	
SALIENT FEATURES												
10	Salient Features	Enumerable	Mandatory / Filter	Automatic conversion of rebound index number to equivalent compression strength; Direct display of Compressive Strength in user chosen units; Graph provided on the body of the hammer to display the compressive strength; Rebound value free of impact angular correction; NA								Multi Select
DISPLAY / INTERFACE / STORAGE												
11	Type of Display	Enumerable	Golden	LCD	LED	OLED	Graduated Scale for Analog Type					
12	Display Backlight	Enumerable	Golden	Yes	No	NA for Analog Type						
13	Digital Graphical Display	Enumerable	Golden	Yes	No	NA for Analog Type						
14	Interface	Enumerable	Mandatory / Filter	USB	SD Card	WiFi	Bluetooth	RS 232	Mobile App	NA for Analog Type	Multi Select	
15	Data Storage (Test Results)	Ordinal	Mandatory / Filter	NA for Analog Type (0), Upto 200 (1), 201 to 400 (2), 401 to 500 (3), 501 to 1000 (4), 1001 to 2000 (5), 2001 to 5000 (6), 5001 to 10000 (7), 10001 to 20000 (8), 20001 to 30000 (9), 30001 to 50000 (10), 50001 to 100000 (11),								

SOFTWARE											
16	Compatible operating system	Enumerable	Mandatory / Filter	Windows	Mac	Linux	iOS	Android	NA		
17	Compatible OS Versions	Text	Mandatory								
18	Software features	Enumerable	Mandatory / Filter	Uniformity assessment with summary view of test results; Sorting of data; Display of Rebound angle; User-defined conversion curves (polynomial and exponential); User-defined statistical methods; Calculation of averages and standard deviations, Discard of non-significant values (outliers), Highlighting of mean, median and outliers; Carbonation correction; Printable report format showing complete test statistics with user comments; Data Export to third party software, NA							Multi Select
GENERIC											
19	Weight	Measurable	Mandatory							Grams	
20	Dimensions (mm x mm x mm)	Text	Mandatory								
21	Additional features, if any	Text	-								
22	List of Items and Quantity of each item included in the offer	Text	-								
23	Conforming Standards for Test Procedures	Enumerable	Mandatory / Filter	IS: 13311 (Part 2); EN 12504-2; ASTM C805, BS 1881: Part 202, ISO/DIS 8045							Multi Select
ACCESSORIES											
24	standard accessories inclusive in the scope of supply	Enumerable	Golden	Battery charger for Rechargeable Batteries with USB cable, Data transfer cable, Data transfer software for PC and Printer, carrying strap, Abrasive grinding stone, chalk, Documentation, Carrying case, instruction booklet with conversion charts, 80±2 Calibration Block / Steel - anvil, 74±2 Calibration Block / Steel - anvil							Multi Select
POWER											
25	Power Source	Enumerable	Mandatory	Rechargeable Battery	Alkaline (non-rechargeable) Battery			NA for Analog Type			
26	Battery Chemistry	Enumerable	Mandatory / Filter	Li-ion	Ni-MH	Alkaline	NA for Analog Type				
27	Capacity of Battery (in mAh) (May indicate '0' for Analog Type)	Numeric	Mandatory	<= 6000							
28	Battery Life under continuous operation (May indicate '0' for Analog Type)	Measurable	Golden	0, 4, 5, 6, 8, 10, 12, 16, 20, 24, 30, 36, 48, 60						hours	Higher is Better
29	Number of Batteries Required for operation (May indicate '0' for Analog Type)	Numeric	Mandatory / Filter	0	1	2	3	4			
30	Number of Batteries Supplied (May indicate '0' for Analog Type)	Numeric	Mandatory / Filter	0	1	2	4	6	8		Higher is Better

OPERATING CONDITIONS / INGRESS PROTECTION												
31	Minimum Operating Temperature	Measurable	Golden	0	-5	-10					deg. C	
32	Maximum Operating Temperature	Measurable	Golden	50	55	60	65	70			deg. C	
33	Ingress Protection	Ordinal	Mandatory / Filter	NA (0), IP 54 (1), IP 55 (2), IP, 56 (3), IP 57 (4)								
WARRANTY												
34	Warranty	Measurable	Golden	1	2	3	5				yrs	

Creater (s)

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Modifier

DCEO SK Jain

APProver (s)

ACEO - HRS / ACEO - PS

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