Laboratory		Young Engineering & Calibration Services Pvt. Ltd., Plot No. 24/107, Airport Wireless Road, Bhimpur, Bhubaneswar, Orissa				
Accreditation Standard Discipline		ISO/IEC 17025:2005				
		Mechanical Calibration		Issue Date	01.12.20	
Certificate Number		C-1165		Valid Until	30.11.20 16	
Last Amended on		-		Page	1 of 5	
Quantity Measured / Instrument		Range/ Frequency	* Calibration Measurement Capability (±)	Remarks		
١.	DIMENSION					
1.	EXTERNAL MICROMETER ^{\$} L.C. 0.001 mm [¢]	0 to 100 mm Above 100 mm to 300 mm	1.8 μm 5.1 μm	Using '0' Gr Long Slip I	ade Slip Gauge & by Comparison Method	
2.	INTERNAL MICROMETER ^{\$} L.C. 0.001 mm [¢]	50 mm to 350 mm	7.6 µm	Using Dial Indicator , Long Slip Gauge Set, Slip Gauge Block & Surface Plate by Comparison Method		
3.	DEPTH MICROMETER ^{\$} L.C. 0.001 mm ^{\$}	Up to 300 mm	5.0 μm	Using Set Slip Gauge, & Surf Compa	of '0" Grade long Slip Gauge Block ace Plate by rison Method	
4.	CALIPER ^{\$} L.C. 0.01 mm [©]	Up to 300 mm	12.0 μm	Using '0' Gr	ade Slip Gauge & '0'	
		Above 300 mm to 600 mm	14.0 μm	Grade Compa	Long Slip by rison Method	
5.	DEPTH GAUGE ^{\$} L.C. 0.01 mm ^{\$}	Up to 300 mm	11.1 μm	Using '0" Gauge, Slip Plate by Co	Grade long Slip Gauge & Surface mparison Method	

Ranjith Kumar D Convenor Avijit Das Program Manager

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						Range/ Frequency	* Calibration Measurement Capability (±)	Remarks	
						6.	HEIGHT GAUGE ^{\$} L.C. 0.01 mm ^{\$}	Up to 300 mm	12.0 μm
		7.	SETTING ROD ^{\$}	Up to 275 mm	4.5 μm	Using Electronic Comparator & '0' Grade Long Slip Gauge Set , '0' Grade Slip Gauge Block & Surface Plate by Comparison Method			
8. 9.	COATING THICKNESS GAUGE ^{\$} DIAL / DIGIMATIC THICKNESS GAUGE/ EXTERNAL DIAL/DIGIMATIC CALIPER/INTERNA L DIAL/	Up to 1600 μm	3.2 μm	Using S Comp	itandard Foil by arison Method				
	DIGIMATIC CALIPER ^{\$} L.C. 0.01 mm ^ø	Up to 25 mm	2.5 μm	Using '0' C by Com	Grade Gauge Block parison Method				
10.	PISTOL CALIPER ^{\$} L.C. 0.1 mm	Up to 25 mm	57.8 μm	Using '0' C by Com	Grade Gauge Block parison Method				
11.	FEELER GAUGE ^{\$}	Up to 1 mm	2.3 μm	Using Dig by Com	imatic Micrometer parison Method				
-	Ranjith Kumar D Convenor	_		Av Prog	ijit Das ram Manager				

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						Quantity Measured / Instrument		Range/ Frequency	* Calibration Measurement Capability (±)	Remarks	
						12.	FOILS ^{\$}	Up to 2000 µm	2.3 μm	Using Elect by Com	ronic Comparator parison Method
13.	HEGMAN GAUGE/FILM APPLICATOR ^{\$}	Up to 1200 μm	2.3 μm	Using Electronic Comparato and Surface Plate by Comparison Method							
14.	TEST SIEVE ^{\$}	5 mm to 125 mm	36.5 μm	Using Dig Compa	imatic Caliper by irison Method						
п.	MASS										
1.	WEIGHING BALANCE [#]										
	Readability: 0.01 mg	Up to 60 g	0.3 mg	Using F ₁ E	Class Weight & ectronic						
	Readability: 0.1 mg	>60g to 200 g	0.3 mg	Weighing E And Coar R	Balance of Class II ser as per OIML- 76(2006)						
	Readability: 10 mg	>200g to 3 kg	19.0 mg	Using M ₁ E Weighing I And Coar R	Class Weight & ectronic Balance of Class II ser as per OIML- 76(2006)						
2.	WEIGHTS ^{\$}	1 mg	0.009 mg	Using F_1 C	lass Weights and						
	F ₂ Class	2 mg	0.009 mg	Precis	sion Balance						
	Ranjith Kumar D Convenor			Avi Progr	jit Das am Manager						

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Accreditation Standard	ISO/IEC 17025:2005			
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		Date	14	
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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (±)	Remarks
M2 Class	5 mg 10 mg 20 mg 50 mg 100 mg 200mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200g 500 g 1 kg 2 kg	0.009 mg 0.009 mg 0.009 mg 0.009 mg 0.009 mg 0.009 mg 0.009 mg 0.009 mg 0.01 mg 0.01 mg 0.01 mg 0.023 mg 0.023 mg 0.023 mg 0.047 mg 0.216 mg 0.382 mg 12.0 mg 13.5 mg	Using M1 Class Weights and Balance
III. VOLUME			
1. CONTENT TYPE VOLUMETRIC MEASURE ^{\$}	1ml to100 ml >100ml to 2000m	0.7 μl l 13.5 μl	using Standard Weights and Distilled Water of Known Density and Reference Weights (F1 and M1 Class)
2. BURETTE/ PIPETTE ^{\$}	1ml to 10 ml >10 ml to 25 ml > 25 ml to 100 m	0.35 μl 0.35 μl l 0.35 μl	using Standard Weights and Distilled Water of Known Density and Reference Weights (F1 and M1 Class)
3. MICRO PIPETTE / Ranjith Kumar D Convenor	10 μl to 100 μl	0.012 µl	using Standard Weights and Avijit Das Program Manager

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (±)	Remarks			
MICRO SYRINGE / DISPENSER ^{\$}	>100 µl to 1ml	0.012 µl	Distilled Water of Known Density and Reference Weights (F1 and M1 Class)			

* Measurement Capability is expressed as an uncertainty () at a confidence probability of 95%

^{\$}Only in Permanent Laboratory

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.
* Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.