

Calibration Charges: DP No. 1.04      DP Name: Optical Radiation Metrology      (w.e.f. 01.04.2025 )												EDC	
Sl. No	Parameter	Item Type / Group	Item Name	Alias Name	Range	No. of Points for Calibration	Limitation / Condition	Charges per Item (INR)	Additional Charges (INR)	Description for Additional Charges	Remarks, if any	Normal	Tatkal
1	Luminous Flux	Incandescent Lamp	GLS Lamp			1		12400	7900	Per additional identical lamp (i.e. same wattage, CCT, geometry)			
2	Luminous Flux	LED bulb	LED lamp			1		12400					
3	Luminous Flux	Incandescent Lamp	Miniature Lamp			1		12400					
4	Luminous Flux	Incandescent Lamp	Miner's Lamp			1		12400					
5	Luminous Flux	Incandescent Lamp	Auto Lamp of Single Filament		Below 50 W	1		12400					
6	Luminous Flux	Incandescent Lamp	Auto Lamp of Double Filament		Below 70 W	1		16800					
7	Luminous Flux	Gaseous Discharge Lamp	TFL/ HPMV Lamp/ HPSV Lamp/ CFL/ Metal Halide etc.			1		12400					
8	Luminous flux	Meter	Luminous Flux meter					46100					
9	Luminous Intensity	Light source	GLS Lamp/ Tungsten Halogen lamp			1		12400					
10	Color Temperature	Light source	Lamp			1		12400					
11	Color Temperature	Meters/ Detectors	Colorimeter/ Chromameter/ Color Analyser and similar			1		27800	12400	For additional Chromaticity coordinates			
12	Chromaticity coordinates	Meters/ Detectors	Colorimeter/ Chromameter/ Color Analyser and similar			1		27800	12400	For additional color temperature			
13	Chromaticity coordinates	LED	LED bulb/ LED panel			1		12400					
14	Color temperature & Chromaticity coordinates	LED	LED Panel					24800					
15	Illuminance	Meters/ Detectors	Lux Meter/ Photometer	Illuminance Meter	1 lux to 2000 lux	Single point		17000			Customer specified point		
16	Illuminance	Meters/ Detectors	Lux Meter/ Photometer	Illuminance Meter	1 lux to 5000 lux	Multi Point		27800			Customer specified points (Maximum 5 points)		
17	Luminance	Meters/ Detectors/ Light Sources	Luminance meter/ Color Analyser/ Luminance source etc.	Luminance		Single point		23300			At fixed luminance of ~1240 cd/m <sup>2</sup>		

18	Luminance	Source	Luminance source/ Photo luminescent plate	Luminance		Temporal Decay		46100			
19	Illuminance Responsivity	Meters/ Detectors	Meter/ Detector					32300			
20	Spectral Wavelength	Spectrophoto meter	Spectrophotometer		Visible spectrum			46100			
21	Spectral Transmittance/ Absorbance/ wavelength	Optical Filter	Neutral density Filter/ Holmium oxide filter/ Glass filter		Visible spectrum		Sample Size: upto 50 x 50 x 15 mm	12400			
22	Specular/ Diffused Reflectance	Tiles/ Slide/ Glass plate	Tiles/ Slide/ Glass plate		Visible spectrum		Sample Size: upto 50 x 50 x 15 mm	12400			
23	Wavenumber	Polysterine Film	Polysterine Film					26200			
24	Spectral irradiance	Thermal source	FEL Lamp		280-400 nm	Multi Points		49200			At 70 cm
25	Spectral irradiance	Thermal source	FEL Lamp		400-800 nm	Multi Points		49200			At 70 cm
26	Spectral irradiance	Thermal source	FEL Lamp		800-2400 nm	Multi Points		49200			At 70 cm
27	Beam angle	Single LED	Single LED					27800			
28	UV Irradiance	Meters/ Detectors/ Light Sources	UV chamber/ UV meter/ UV lamp		250-400 nm	Single point		26100			Anyone of UV A/ UV B/ UV C / (UV A+UV B)
29	UV Irradiance	UV chamber	UV chamber		250-400 nm	Multi Points		45600			Anyone of UV A/ UV B/ UV C / (UV A+UV B), and Upto 10 spatial points
30	UV Wavelength	Meters/ Detectors/ Light Sources	UV chamber/ UV meter/ UV lamp		250-400 nm	Single point		26100			
31	Spectral Radiant Flux	LED Lamp	LED/GLS Lamp		380-780 nm	1		50000			5 nm interval
32	Luminous Flux as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		15000			Relevant standard is applicable only for LED based lamps
33	CCT as per IES LM- 79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		15000			Relevant standard is applicable only for LED based lamps
34	CC (Chromaticity Coordinate) as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		15000			Relevant standard is applicable only for LED based lamps
35	CRI as per IES LM-79- 19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		15000			Relevant standard is applicable only for LED based lamps

**Around 3  
weeks**

**5 working  
days**

36	Any Two of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		17000			Relevant standard is applicable only for LED based lamps
37	CCT,CC (Chromaticity Coordinate), and CRI as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		19000			Relevant standard is applicable only for LED based lamps
38	Luminous Flux and any one of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		17000			Relevant standard is applicable only for LED based lamps
39	Luminous Flux and any Two of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		19000			Relevant standard is applicable only for LED based lamps
40	Luminous Flux, CCT,CC (Chromaticity Coordinate), and CRI as per IES LM-79-19/IS 16106:2012 in Integrating Sphere	LED Lamp	LED/GLS Lamp			1		21000			Relevant standard is applicable only for LED based lamps
41	Luminous Flux as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		30000			Relevant standard is applicable only for LED based lamps
42	CCT as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		30000			Relevant standard is applicable only for LED based lamps
43	CC (Chromaticity Coordinate) as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		30000			Relevant standard is applicable only for LED based lamps
44	CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		30000			Relevant standard is applicable only for LED based lamps

45	Any Two of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		32000			Relevant standard is applicable only for LED based lamps
46	CCT,CC (Chromaticity Coordinate), and CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		34000			Relevant standard is applicable only for LED based lamps
47	Luminous Flux and any one of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		40000			Relevant standard is applicable only for LED based lamps
48	Luminous Flux and any Two of CCT/CC (Chromaticity Coordinate)/CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		42000			Relevant standard is applicable only for LED based lamps
49	Luminous Flux, CCT,CC (Chromaticity Coordinate), and CRI as per IES LM-79-19/IS 16106:2012 in Goniophotometer	LED Lamp	LED/GLS Lamp			1		44000			Relevant standard is applicable only for LED based lamps

**Onsite Calibration charges**

Sl. No.	Parameter	Item/ Equipment name	Charges (INR)				
		<b>Goniophotometer with Spectroradiometer</b>					
1	Goniophotometer for Luminous Flux		66000			Depends on time slot requested by the customer as well as manpower available at NPL	NA
2	Color temperature		24800				
3	Chromaticity coordinates		24800				
4	Wavelength (Visible spectrum)		64500				
5	Luminous Intensity		28400				
		<b>Integrating Sphere with Spectroradiometer</b>					
1	Wavelength (Visible spectrum)		64500			Depends on time slot requested by the customer as well as manpower available at NPL	NA
2	Luminous Flux		24800				
3	Color Temperature		24800				
4	Chromaticity coordinates		24800				
*	Scientist/ Technologist Charges (per person - per day)		7000			Per person per day	
*	Instruments Handling Charges		1500			As per rule	

Testing Charges: DP No. 1.04      DP Name: Optical Radiation Metrology      (w.e.f. 01.04.2025 )									EDC	
Sl. No	Area of Testing	Sample / Item Name	Test Parameters	Sample Requirements, if any	Testing Charges per Sample (INR)	Additional Charges (INR)	Description for Additional Charges	Remarks, if any	Normal	Tatkal
1	LED Photometry	LED Lamp/Tube	Measurement Report as per IES LM-79-19/IS 16106:2012 in Integrating Sphere		45000				Around 4 weeks	8 working days
2	LED Photometry	LED Lamp/Tube/Luminaire/Fixture	Luminous Intensity Distribution as per IES LM-79-19/IS 16106:2012 in Goniophotometer (4 no.s of C-plane)	Dimension of Sample: Up to 2 m; Weight of Sample: Up to 45 kg	55000					
3	LED Photometry	LED Lamp/Tube/Luminaire/Fixture	Luminous Intensity Distribution as per IES LM-79-19/IS 16106:2012 in Goniophotometer (8 no.s of C-plane)	Dimension of Sample: Up to 2 m; Weight of Sample: Up to 45 kg	65000					
4	LED Photometry	LED Lamp/Tube/Luminaire/Fixture	Measurement Report as per IES LM-79-19/IS 16106:2012 in Goniophotometer	Dimension of Sample: Up to 2 m; Weight of Sample: Up to 45 kg	84000					