



# POSALI<sup>®</sup>

PROUDLY CONTRIBUTING TO THE MAKING OF  
**UJJWAL BHARAT**

**A PRODUCT BY : PRUTHVI PLASTO INDUSTRIES**

**PROUDLY MADE IN BHARAT**



## 1. ABS Junction Box :

IP 65 Certified -

Material : ABS

Gasket : As per IP 65 silicon Gasket

Screw : Heavy Duty ROHS Plated

- Also available in **TRANSPARENT BODY**

Product Code	Size
JB 100	100MMX100MMX70MM
JB 150 110	150MMX110MMX70MM
JB 150	150MMX150MMX70MM
JB 200	200MMX155MMX80MM
JB 255	255MMX200MMX80MM
JB 300	300MMX250MMX120MM
JB 400	400MMX350MMX120MM
JB 200 Jumbo	200MMX155MMX120MM
JB 255 Jumbo	255MMX200MMX120MM



## 2. Heavy Duty Water Proof MCB Box



Product Code	Size
2 POLE MCB BOX	WITH WINDOW
4 POLE MCB BOX	WITH WINDOW
8 POLE MCB BOX	WITH WINDOW

## 3. Waterproof Junction Box

**IP 65 Certified -**

Material : Heavy Duty Engineering Plastic

Gasket : As per IP 65 silicon one piece gasket

Screw : Heavy duty ROHS plated, half threaded screw

- Also available with **Connector**



Product Code	Size	Specification
K 9020 Z	88MMx88MMx53MM	Empty
K 9025 Z	88MMx88MMx53MM	With Connector
K 9040 Z	98MMx98MMx61MM	Empty
K 9045 Z	98MMx98MMx61MM	With Connector
K 9060 Z	139MMx119MMx70MM	Empty
K 9065 Z	139MMx119MMx70MM	With Connector
K 9100 Z	167MMx125MMx82MM	Empty
K 9105 Z	167MMx125MMx82MM	With Connector
K 9250 Z	200MMx160MMx98MM	Empty
K 9255 Z	200MMx160MMx98MM	With Connector

## 4. Accessories

### Product Code

2 POLE WINDOW

4 POLE WINDOW

8 POLE WINDOW



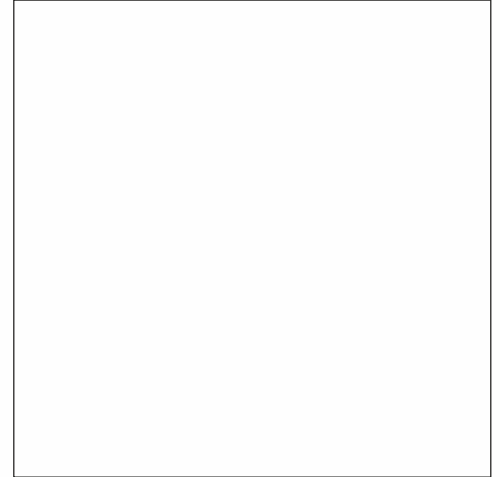
### Product Code

HINGES

# Common Features of Our Products

- Highly resistant to chemicals & atmospheric agents
- Insulated for electrical applications
- Protected against electrical shock
- High impact strength
- Corrosion proof
- Glow wire test compatible
- High clarity in TRANSPERNT box for meterbox & clear surface
- Flame retardant, self extinguishing
- Easily machinable
- Good stain resistant
- Customized colors
- Can be easily painted & Electroplated
- No post processing require like Powder Coating or Galvenizing
- Weather proof & UV stabilized
- Suitable for highly corrosive Indian coastal climate
- Light in weight for easy transportation
- High surface finish

**DEALER**



**A PRODUCT BY : PRUTHVI PLASTO INDUSTRIES**

**PROUDLY MADE IN BHARAT**

**Address :** Plot No. 197/1, Gala No. 10, 1st Floor, Bherunath Engineering Compound, Opp. Vapi Paper mill, 2nd, Phase, Vapi - 396195 Guj. India

**E-Mail :** posalivapi@gmail.com

**Web :** www.posali.co.in







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## KARANDIKAR LABORATORIES PVT. LTD. BOISAR

Format: F#07 b.1 Rev 07

### TYPE TEST REPORT

IS/IEC 60529:2001

Degrees of Protection Provided by Enclosures (IP Code)

Report No. .... : KLPL/BTG/17/12-17R1

Date of issue..... : 07.10.2018

No. of pages ..... : 06 PAGES + Annexure

Compiled by (+ signature)..... : Rupesh Mukane

Approved by (+ signature)..... : Atul Marathe



Item Received On ..... : 07.12.2017 in Good Condition

Test Completion Date ..... : 13.12.2017

#### Client

Name ..... : M/s. PRUTHVI PLASTO INDUSTRIES.

: Plot No.197/1 & 2<sup>nd</sup> Phase,  
Bherunath Engineering Compound,  
Opp. Vapi Paper Mill, GIDC,  
Vapi-396 195.

#### Test Specification

Standard ..... : IS/IEC 60529:2001

Specified IP-Code..... : IP65

#### Equipment Under Test

Type of Test Object ..... : JB 400 Enclosure Box, Size: 400(L)x350(H)x120(D) mm

Model No. .... : JB - 400

Sr. No..... : PPI 1007

Manufacturer ..... : M/s. PRUTHVI PLASTO INDUSTRIES.

Brand..... : POSALI

#### Annexure :

Drawing No..... : 2, Rev. 2, Dated: 01.12.2017 (02 Pages)



**NOTE: 1) This refers only to the particular item(s) submitted for testing.**

**2) If necessary, this report shall be reproduced ONLY in full.**

**3) R1 denotes: That previous test report KLPL/BTG/17/12-17 Dated: 06.01.2018 stands withdrawn and replace by this test report (Brand name added & drawing number corrected).**

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Laboratory: Gat#142, Betegaon, Boisar Chilhar Road, Opp. Union Park, Boisar (E) Tal-Palghar, Dist-Palghar-401501, INDIA  
Phone (02525) 284881/931

Email: sales@karandikarlab.com

Website: [www.karandikarlab.com](http://www.karandikarlab.com)



**Possible test case verdicts:**

Test case does not apply to the test object ..... : N ( Not Applicable)

Test object does meet the requirement..... : P ( Pass)

Test item does not meet the requirement ..... : F (Fail)

Test case has not been checked ..... : \_\_\_\_\_

**General remarks:**

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

The test results presented in this report relate only to the object tested.

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**Note: - MAJOR EQUIPMENTS USED**

Tests	Required Instruments	Id. No.	Cal Due Date	Used Y/N
1X	Accessibility probe 50 mm Dia.	K&A 405/1A	08.11.2018	N
2X	Accessibility Probe 12.5 mm Dia.	K&A 405 / 3B	08.11.2018	N
3X	Accessibility Probe 2.5mm Dia.	K&A 405 / 5A	08.11.2018	N
4X	Accessibility Probe 1mm Dia.	K&A 405 / 6B	08.11.2018	Y
5X / 6X	Manometer	K&A 047/4	29.04.2018	Y
	Rotameter 1.2 LPM	K&A 425	02.01.2018	Y
	DTC with sensor	K&A 047/1	10.01.2018	Y
	Timer	K&A 047/2	10.01.2018	Y
X1 /X2	Rotameter	K&A 419/2	02.01.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X3	Rotameter	K&A 419/2	02.01.2018	N
	Pressure Gauge	K&A 383/1	08.02.2018	N
X4	Rotameter	K&A 419/1	02.01.2018	N
	Pressure Gauge	K&A 384/1	08.02.2018	N
X5	Nozzle 6.3 mm dia.	K&A 381-16	16.04.2018	Y
	Rotameter	K&A 419/2	02.01.2018	Y
	Stop Watch	K&A 433	16.04.2018	Y
X6	Nozzle 12.5 mm dia.	K&A 382	16.04.2018	N
	Rotameter	K&A 1102-17	09.05.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X7 /X8	Scale	K&A 107	One time calibration	N
	Stop watch	K&A 433	16.04.2018	N





IS/IEC 60529:2001			
Clause	Requirement - Test	Result- Remark	Verdict
10	Marking.		N
11	General requirement for tests.		
11.1	Tests should be carried out under the standard atmospheric conditions described in IEC 60068-1		P
11.2	Test samples shall be in a clean and new condition.		P
	The relevant product standard shall specify details such as: The number of samples to be tested;		N
	-conditions for mounting, assembling and positioning of the samples;		P
	-the pre-conditioning, if any, which is to be used;		N
	-whether to be tested energized or not;		N
	-whether to be tested with its parts in motion or not;		N
11.5	Empty enclosures		
	If the enclosure is tested without equipment inside, the manufacturer shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of Protection of the final product.	Empty enclosure	P

12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral.			
First, characteristic Numeral.	Test means (Access probes)	Test force	Test Conditions Refer IS/IEC 60529:2001	
0	No test required	-	-	N
1	The access probe, sphere of 50 mm $\emptyset$ shall not fully penetrate and adequate clearance shall be kept.	50N $\pm$ 10%	Cls.12.2	N
2	The jointed test finger may penetrate up to 80 mm length but adequate clearance shall be kept.	30N $\pm$ 10%	Cls.12.2	N
3	The access probe, sphere of 2.5 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	3N $\pm$ 10%	Cls.12.2	N
4	The access probe of 1,0 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	1N $\pm$ 10%	Cls.12.2	N
5	Test conditions for IP 5X: Same As Above	1N $\pm$ 10%	Cls.12.2	N
6	Test conditions for IP 6X: Same As Above	1N $\pm$ 10%	Cls.12.2	P Test wire does not penetrate inside the UUT.







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Report No.: KLPL/BTG/17/12-17R1

Date: 07.10.2018

IS/IEC 60529:2001					
Clause	Requirement – Test			Result-Remark	Verdict
<b>13</b>	<b>Tests for protection against solid foreign objects indicated by the First characteristic numeral.</b>				
First, characteristic Numeral.	Test means (object probes and dust chamber)	Test force	Test Conditions Refer IS/IEC 60529:2001		N
0	No test required	-	-		N
1	Rigid sphere without handle or guard 50 mm diameter.	50N ±10%	Cls.13.2		N
2	Rigid sphere without or guard 12, 5 mm diameter.	30N ±10%	Cls.13.2		N
3	Rigid steel rod 2,5mm diameter with edges free from burrs	3N± 10%	Cls.13.2		N
4	Rigid steel wire 1, mm diameter with edges free from burrs.	1N± 10%	Cls.13.2		N
5	Dust chamber, with under pressure	NA	Cls.13.4+13.5		N
6	Dust chamber, The enclosure is maintained below the Surrounding atmospheric pressure by a vacuum pump.	NA	Cls.13.4+13.6	For 8 hrs. As extraction rate is less than 40 Volumes per hour and max depression of 20mbar.	P
13.6.2	<b>Acceptance conditions for the first characteristic numeral 6X.</b> The protection is satisfactory if no hazardous deposit of dust is observable inside the UUT at the end of test.			No ingress of powder found inside the UUT.	P



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Website: [www.karandikarlab.com](http://www.karandikarlab.com)



IS/IEC 60529:2001				
Clause	Requirement – Test		Result-Remark	Verdict
<b>14</b>	<b>Tests for protection against water indicated by the second characteristic numeral.</b>			
Second, characteristic Numeral.	Test means	Test Conditions Refer IS/IEC 60529:2001		N
0	No test required	Cls.14.2.0		N
1	Drip box, Enclosure on turntable	Cls.14.2.1		N
2	Drip box, Enclosure in 4 fixed positions of 15 ° tilt	Cls.14.2.2		N
3	oscillating tube or spray nozzle, 60° from vertical	Cls.14.2.3		N
4	oscillating tube or spray nozzle, 180° from vertical	Cls.14.2.4		N
5	6.3-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 12.5 l/min ±5%	Cls.14.2.5	6.3 mm nozzle, Flow rate 12 lit/min, 2.5 – 3 m distance, 3 min duration.	P
6	12.5-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 100 l/min	Cls.14.2.6		N
7	Immersion tank,	Cls.14.2.7		N
8	Immersion tank, Continuous immersion subject to agreement. Water temperature does not differ from that of equipment by more than 5K.	Cls.14.2.8		N
-	<b>Acceptance conditions for IPX5:</b> The protection is satisfactory if no water has accumulated near the insulation, cable end or entered cables or interferes with the correct operation of the equipment.	Cls.14.3	No ingress of water observed inside the UUT.	P
-	Tests for protection against access to hazardous parts indicated by the additional letter.	Cls.15		N

**SUMMARY OF INGRESS PROTECTION TESTS ACCORDING TO IS/IEC 60529:2001**

**Conclusion of the IP65 test: PASS.**

The results of the tests were in compliance with the requirements in the standard IS/IEC 60529:2001  
UUT=Unit Under Test





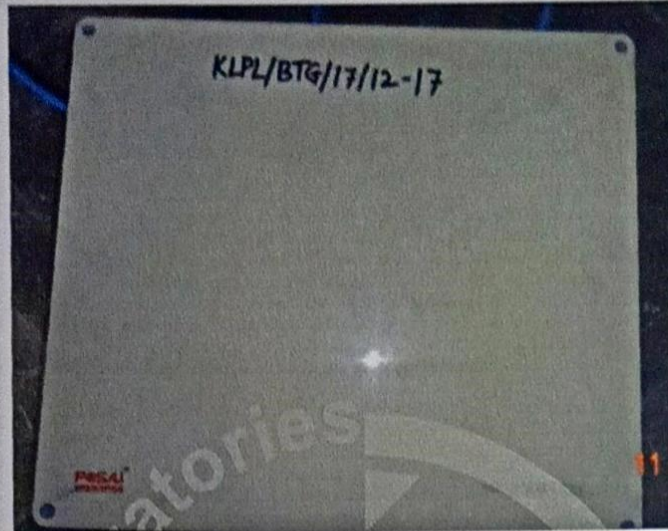


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Report No.: KLPL/BTG/17/12-17R1

Date: 07.10.2018



**Picture1:** JB 400 Enclosure Box, Size: 400(L)x350(H)x120(D) mm



**Picture2:** No ingress of powder & water observed

**END OF REPORT**



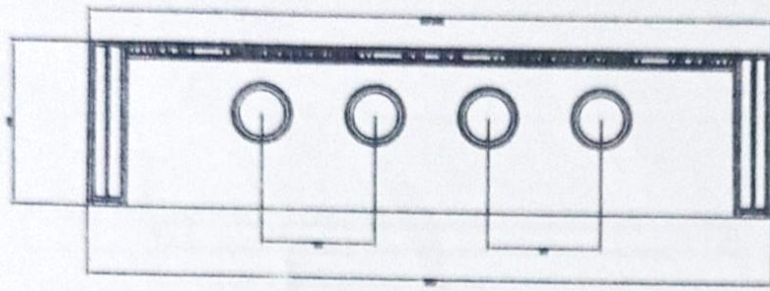
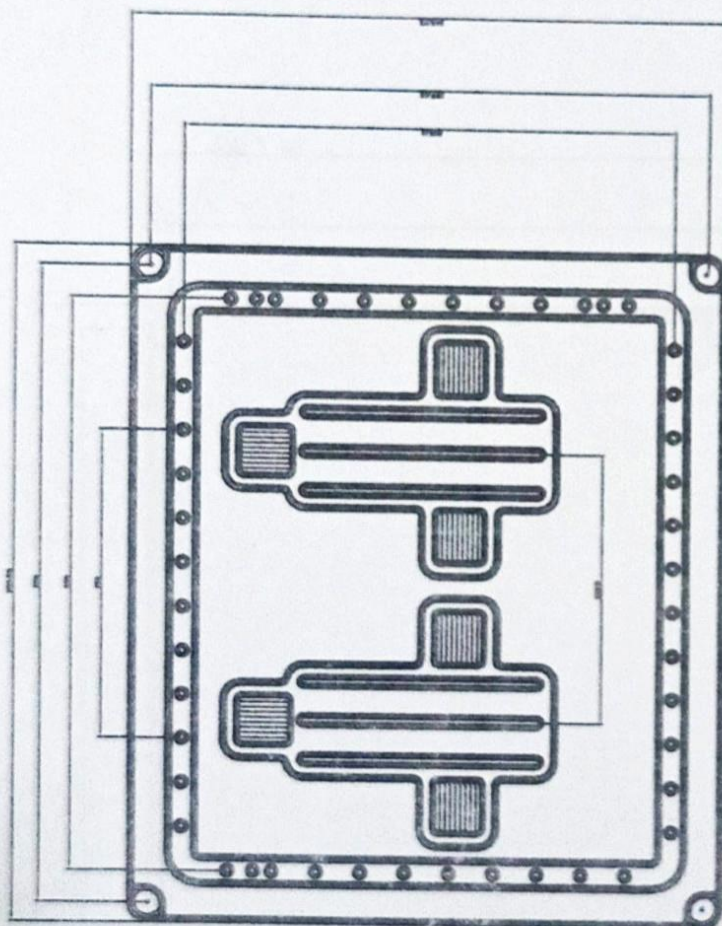
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Annexure



Report No. KLPK/BTG/17/12-17R1



		PAGE 1 OF 2	
MATERIAL	ENGINEERING PLASTIC	COMPANY	PRUTHVI PLASTO INDUSTRIES
SIZE	400MMX350MMX120MM	ADDRESS	PLDT NO.197/1,GALA NELLO.1ST FLOOR 2ND PHASE VAPE
GASKET	SILICON	BRAND	POSALI
GAS SIZE	3.1MMX4.5MMX14.30MM	TITLE	JB 400 ENCLOSURE BOX
WEIGHT	1500 GMS	DRN	MR FAURK/1/12/2017
STANDARD	IP 65 AS PER STANDARD IS/IES 60529 : 2001	CKD	MR KETAN/1/12/2017
REV. DATE	1/12/2017	APPD	MR KETAN/1/12/2017
			DRAWING NO. 2
			REVISION NO. 2





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## KARANDIKAR LABORATORIES PVT. LTD. BOISAR

Format: F#07 b.1 Rev 07

### TYPE TEST REPORT

IS/IEC 60529:2001

Degrees of Protection Provided by Enclosures (IP Code)

Report No. .... : KLPL/BTG/17/12-16R1

Date of issue..... : 07.10.2018

No. of pages ..... : 06 PAGES + Annexure

Compiled by (+ signature)..... : Rupesh Mukane

Approved by (+ signature)..... : Atul Marathe



Item Received On ..... : 09.12.2017 in Good Condition

Test Completion Date ..... : 13.12.2017

#### Client

Name ..... : M/s. PRUTHVI PLASTO INDUSTRIES.

: Plot No.197/1 & 2<sup>nd</sup> Phase  
Bherunath Engineering Compound,  
Opp. Vapi Paper Mill, GIDC,  
Vapi-396 195.

#### Test Specification

Standard ..... : IS/IEC 60529:2001

Specified IP-Code..... : IP65

#### Equipment Under Test

Type of Test Object ..... : JB 300 Enclosure Box, Size: 300(L)x250(H)x120(D) mm

Model No. .... : JB - 300

Sr. No..... : PPI 1006

Manufacturer ..... : M/s. PRUTHVI PLASTO INDUSTRIES.

Brand..... : POSALI



#### Annexure :

Drawing No..... : 2, Rev. 2, Dated: 01.12.2017 (01 Page)

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Report No.: KLPL/BTG/17/12-16R1

Date: 07.10.2018

**Possible test case verdicts:**

Test case does not apply to the test object ..... : N ( Not Applicable)

Test object does meet the requirement..... : P ( Pass)

Test item does not meet the requirement ..... : F (Fail)

Test case has not been checked ..... : \_\_\_\_\_

**General remarks:**

"(See remark #)" refers to a remark appended to the report.

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**Note: - MAJOR EQUIPMENTS USED**

Tests	Required Instruments	Id. No.	Cal Due Date	Used Y/N
1X	Accessibility probe 50 mm Dia.	K&A 405/1A	08.11.2018	N
2X	Accessibility Probe 12.5 mm Dia.	K&A 405 / 3B	08.11.2018	N
3X	Accessibility Probe 2.5mm Dia.	K&A 405 / 5A	08.11.2018	N
4X	Accessibility Probe 1mm Dia.	K&A 405 / 6B	08.11.2018	Y
5X / 6X	Manometer	K&A 047/4	29.04.2018	Y
	Rotameter 1.2 LPM	K&A 425	02.01.2018	Y
	DTC with sensor	K&A 047/1	10.01.2018	Y
	Timer	K&A 047/2	10.01.2018	Y
X1 /X2	Rotameter	K&A 419/2	02.01.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X3	Rotameter	K&A 419/2	02.01.2018	N
	Pressure Gauge	K&A 383/1	08.02.2018	N
X4	Rotameter	K&A 419/1	02.01.2018	N
	Pressure Gauge	K&A 384/1	08.02.2018	N
X5	Nozzle 6.3 mm dia.	K&A 381-16	16.04.2018	Y
	Rotameter	K&A 419/2	02.01.2018	Y
	Stop Watch	K&A 433	16.04.2018	Y
X6	Nozzle 12.5 mm dia.	K&A 382	16.04.2018	N
	Rotameter	K&A 1102-17	09.05.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X7 /X8	Scale	K&A 107	One time calibration	N
	Stop watch	K&A 433	16.04.2018	N



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Report No.: KLPL/BTG/17/12-16R1

Date: 07.10.2018

IS/IEC 60529:2001			
Clause	Requirement - Test	Result- Remark	Verdict
10	Marking.		N
11	General requirement for tests.		
11.1	Tests should be carried out under the standard atmospheric conditions described in IEC 60068-1		P
11.2	Test samples shall be in a clean and new condition.		P
	The relevant product standard shall specify details such as: The number of samples to be tested;		N
	-conditions for mounting, assembling and positioning of the samples;		P
	-the pre-conditioning, if any, which is to be used;		N
	-whether to be tested energized or not;		N
11.5	Empty enclosures		
	If the enclosure is tested without equipment inside, the manufacturer shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of Protection of the final product.	Empty enclosure	P

12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral.			
First, characteristic Numeral.	Test means (Access probes)	Test force	Test Conditions Refer IS/IEC 60529:2001	N
0	No test required	-	-	N
1	The access probe, sphere of 50 mm $\emptyset$ shall not fully penetrate and adequate clearance shall be kept.	50N $\pm$ 10%	Cls.12.2	N
2	The jointed test finger may penetrate up to 80 mm length but adequate clearance shall be kept.	30N $\pm$ 10%	Cls.12.2	N
3	The access probe, sphere of 2.5 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	3N $\pm$ 10%	Cls.12.2	N
4	The access probe of 1,0 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	1N $\pm$ 10%	Cls.12.2	N
5	Test conditions for IP 5X: Same As Above	1N $\pm$ 10%	Cls.12.2	N
6	Test conditions for IP 6X: Same As Above	1N $\pm$ 10%	Cls.12.2	P Test wire does not penetrate inside the UUT.



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Report No.: KLPL/BTG/17/12-16R1

Date: 07.10.2018

IS/IEC 60529:2001

Clause	Requirement – Test	Result-Remark	Verdict		
<b>13</b>	<b>Tests for protection against solid foreign objects indicated by the First characteristic numeral.</b>				
First, characteristic Numeral.	Test means (object probes and dust chamber)	Test force	Test Conditions Refer IS/IEC 60529:2001	N	
0	No test required	-	-	N	
1	Rigid sphere without handle or guard 50 mm diameter.	50N ±10%	Cls.13.2	N	
2	Rigid sphere without or guard 12, 5 mm diameter.	30N ±10%	Cls.13.2	N	
3	Rigid steel rod 2,5mm diameter with edges free from burrs	3N± 10%	Cls.13.2	N	
4	Rigid steel wire 1, mm diameter with edges free from burrs.	1N± 10%	Cls.13.2	N	
5	Dust chamber, with under pressure	NA	Cls.13.4+13.5	N	
6	Dust chamber, The enclosure is maintained below the Surrounding atmospheric pressure by a vacuum pump.	NA	Cls.13.4+13.6	For 8 hrs. As extraction rate is less than 40 Volumes per hour and max depression of 20mbar.	P
13.6.2	<b>Acceptance conditions for the first characteristic numeral 6X.</b> The protection is satisfactory if no hazardous deposit of dust is observable inside the UUT at the end of test.			No ingress of powder found inside the UUT.	P



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Report No.: KLPL/BTG/17/12-16R1

Date: 07.10.2018

**IS/IEC 60529:2001**

Clause	Requirement – Test	Result-Remark	Verdict
<b>14</b>	<b>Tests for protection against water indicated by the second characteristic numeral.</b>		
Second, characteristic Numeral.	Test means	Test Conditions Refer IS/IEC 60529:2001	N
0	No test required	Cls.14.2.0	N
1	Drip box, Enclosure on turntable	Cls.14.2.1	N
2	Drip box, Enclosure in 4 fixed positions of 15 ° tilt	Cls.14.2.2	N
3	oscillating tube or spray nozzle, 60° from vertical	Cls.14.2.3	N
4	oscillating tube or spray nozzle, 180° from vertical	Cls.14.2.4	N
5	6.3-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 12.5 l/min ±5%	Cls.14.2.5	6.3 mm nozzle, Flow rate 12 lit/min, 2.5 – 3 m distance, 3 min duration. P
6	12.5-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 100 l/min	Cls.14.2.6	N
7	Immersion tank,	Cls.14.2.7	N
8	Immersion tank, Continuous immersion subject to agreement. Water temperature does not differ from that of equipment by more than 5K.	Cls.14.2.8	N
-	<b>Acceptance conditions for IPX5:</b> The protection is satisfactory if no water has accumulated near the insulation, cable end or entered cables or interferes with the correct operation of the equipment.	Cls.14.3	No ingress of water observed inside the UUT. P
-	Tests for protection against access to hazardous parts indicated by the additional letter.	Cls.15	N

**SUMMARY OF INGRESS PROTECTION TESTS ACCORDING TO IS/IEC 60529:2001**

**Conclusion of the IP65 test: PASS.**

The results of the tests were in compliance with the requirements in the standard IS/IEC 60529:2001  
UUT=Unit Under Test



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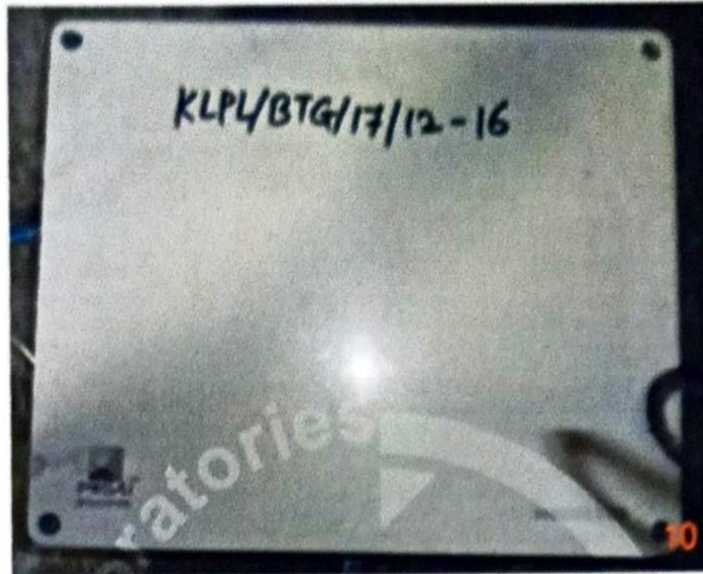


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Report No.: KLPL/BTG/17/12-16R1

Date: 07.10.2018



Picture1: JB 300 Enclosure Box, Size: 300(L)x250(H)x120(D) mm



Picture2: No ingress of powder & water observed

END OF REPORT



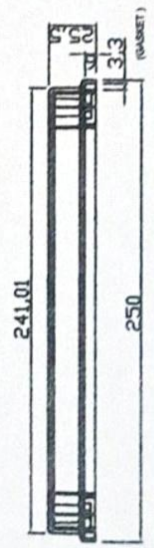
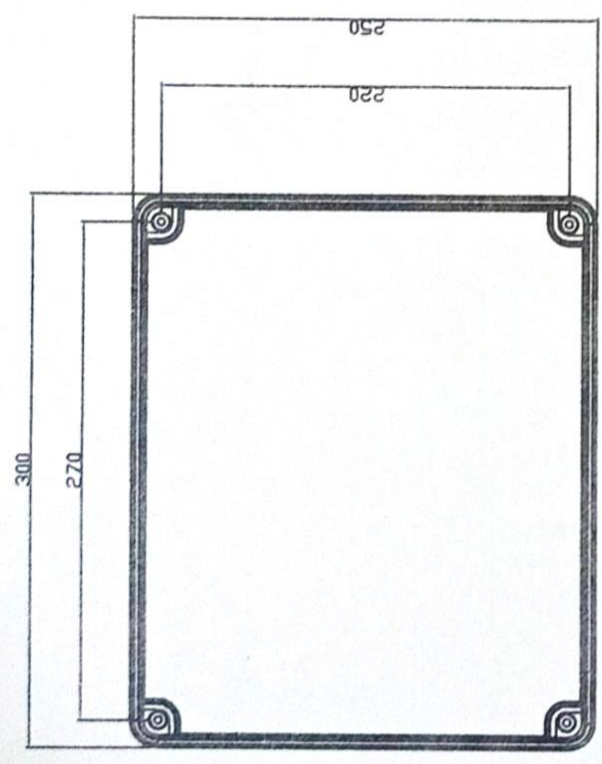
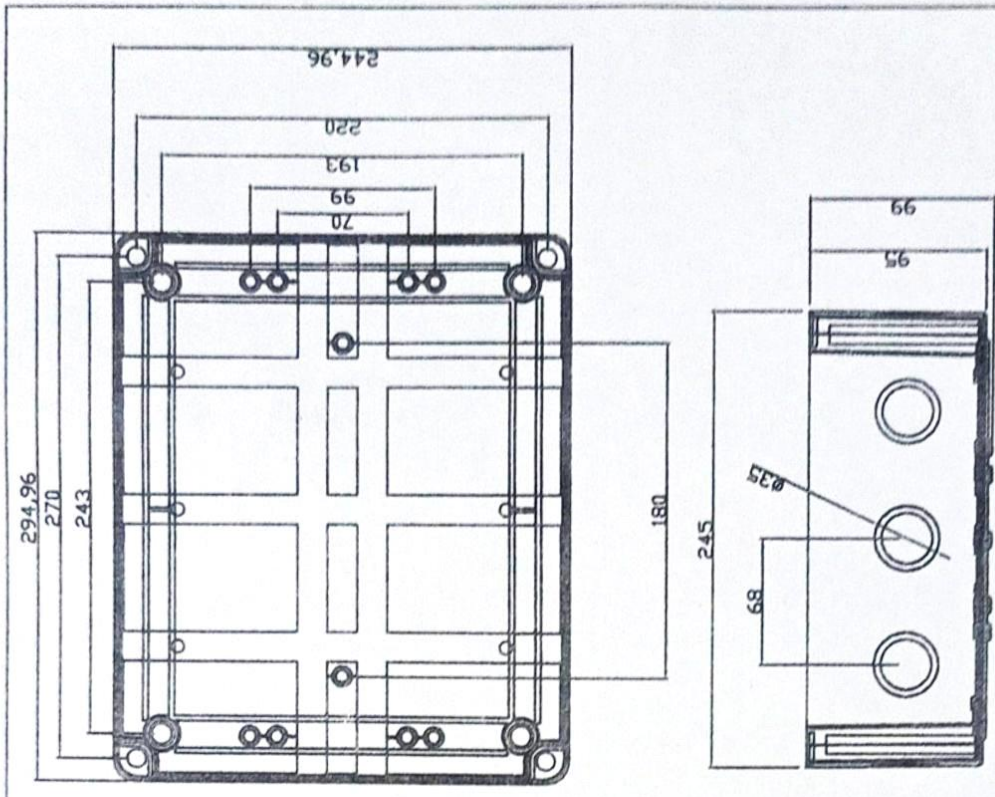
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Ammeure



Report No. KLP/8TG/17/12-16R1

PAGE 1 OF 1			
MATERIAL	ENGINEERING PLASTIC	COMPANY	PRUTHVI PLASTO INDUSTRIES
SIZE	300MMX250MMX120MM	ADDRESS	PLOT NO.197/1,GALA NO.10,1ST FLOOR 2ND PHASE VAPI
GASKET	SILICON	BRAND	POSALI
GAS-SIZE	3.1MMX4.5MMX1000MM	TITLE	JB 300 ENCLOSURE BOX
WEIGHT	830 GMS	DRN	MR.FAURK 1/12/2017
STANDARD	IP 65 AS PER STANDARD IS/IES 60529 , 2001	CKD	MR.KETAN 1/12/2017
REV. DATE	1/12/2017	APPD	MR.KETAN 1/12/2017
			DRAWING NO. 2
			REVISION NO. 2





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**KARANDIKAR LABORATORIES PVT. LTD. BOISAR**

Format: F#07 b.1 Rev 07

**TYPE TEST REPORT**

**IS/IEC 60529:2001**

**Degrees of Protection Provided by Enclosures (IP Code)**

Report No. .... : KLPL/BTG/17/12-15R1

Date of issue..... : 07.10.2018

No. of pages ..... : 06 PAGES + Annexure

Compiled by (+ signature)..... : Rupesh Mukane

Approved by (+ signature)..... : Atul Marathe



Item Received On ..... : 09.12.2017 in Good Condition

Test Completion Date ..... : 13.12.2017

**Client**

Name ..... : **M/s. PRUTHVI PLASTO INDUSTRIES.**  
: Plot No.197/1 & 2<sup>nd</sup> Phase  
Bherunath Engineering Compound,  
Opp. Vapi Paper Mill, GIDC,  
Vapi-396 195.

**Test Specification**

Standard ..... : **IS/IEC 60529:2001**  
Specified IP-Code..... : **IP65**

**Equipment Under Test**

Type of Test Object ..... : **JB 255 Enclosure Box, Size: 255(L)x200(H)x80(D) mm**  
Model No. .... : **JB - 255**  
Sr. No..... : **PPI 1005**  
Manufacturer ..... : **M/s. PRUTHVI PLASTO INDUSTRIES.**  
Brand..... : **POSALI**

**Annexure :**

Drawing No..... : 2, Rev. 2, Dated: 01.12.2017 (01 Page)



**NOTE: 1) This refers only to the particular item(s) submitted for testing.**

**2) If necessary, this report shall be reproduced ONLY in full.**

**3) R1 denotes: That previous test report KLPL/BTG/17/12-15 Dated: 06.01.2018 stands withdrawn and replace by this test report (Brand name added & drawing number corrected).**

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Report No.: KLPL/BTG/17/12-15R1

Date: 07.10.2018

**Possible test case verdicts:**

Test case does not apply to the test object ..... : N ( Not Applicable)

Test object does meet the requirement..... : P ( Pass)

Test item does not meet the requirement ..... : F (Fail)

Test case has not been checked ..... : \_\_\_\_\_

**General remarks:**

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This test report shall not be reproduced except in full without the written approval of the testing Laboratory.

**Note: - MAJOR EQUIPMENTS USED**

Tests	Required Instruments	Id. No.	Cal Due Date	Used Y/N
1X	Accessibility probe 50 mm Dia.	K&A 405/1A	08.11.2018	N
2X	Accessibility Probe 12.5 mm Dia.	K&A 405 / 3B	08.11.2018	N
3X	Accessibility Probe 2.5mm Dia.	K&A 405 / 5A	08.11.2018	N
4X	Accessibility Probe 1mm Dia.	K&A 405 / 6B	08.11.2018	Y
5X / 6X	Manometer	K&A 047/4	29.04.2018	Y
	Rotameter 1.2 LPM	K&A 425	02.01.2018	Y
	DTC with sensor	K&A 047/1	10.01.2018	Y
	Timer	K&A 047/2	10.01.2018	Y
X1 /X2	Rotameter	K&A 419/2	02.01.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X3	Rotameter	K&A 419/2	02.01.2018	N
	Pressure Gauge	K&A 383/1	08.02.2018	N
X4	Rotameter	K&A 419/1	02.01.2018	N
	Pressure Gauge	K&A 384/1	08.02.2018	N
X5	Nozzle 6.3 mm dia.	K&A 381-16	16.04.2018	Y
	Rotameter	K&A 419/2	02.01.2018	Y
	Stop Watch	K&A 433	16.04.2018	Y
X6	Nozzle 12.5 mm dia.	K&A 382	16.04.2018	N
	Rotameter	K&A 1102-17	09.05.2018	N
	Stop Watch	K&A 433	16.04.2018	N
X7 /X8	Scale	K&A 107	One time calibration	N
	Stop watch	K&A 433	16.04.2018	N



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Report No.: KLPL/BTG/17/12-15R1

Date: 07.10.2018

IS/IEC 60529:2001			
Clause	Requirement - Test	Result- Remark	Verdict
10	Marking.		N
11	General requirement for tests.		
11.1	Tests should be carried out under the standard atmospheric conditions described in IEC 60068-1		P
11.2	Test samples shall be in a clean and new condition.		P
	The relevant product standard shall specify details such as: The number of samples to be tested;		N
	-conditions for mounting, assembling and positioning of the samples;		P
	-the pre-conditioning, if any, which is to be used;		N
	-whether to be tested energized or not;		N
11.5	Empty enclosures		
	If the enclosure is tested without equipment inside, the manufacturer shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of Protection of the final product.	Empty enclosure	P

12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral.			
First, characteristic Numeral.	Test means (Access probes)	Test force	Test Conditions Refer IS/IEC 60529:2001	N
0	No test required	-	-	N
1	The access probe, sphere of 50 mm $\emptyset$ shall not fully penetrate and adequate clearance shall be kept.	50N $\pm$ 10%	Cls.12.2	N
2	The jointed test finger may penetrate up to 80 mm length but adequate clearance shall be kept.	30N $\pm$ 10%	Cls.12.2	N
3	The access probe, sphere of 2.5 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	3N $\pm$ 10%	Cls.12.2	N
4	The access probe of 1,0 mm $\emptyset$ shall not penetrate and adequate clearance shall be kept.	1N $\pm$ 10%	Cls.12.2	N
5	Test conditions for IP 5X: Same As Above	1N $\pm$ 10%	Cls.12.2	N
6	Test conditions for IP 6X: Same As Above	1N $\pm$ 10%	Cls.12.2	P Test wire does not penetrate inside the UUT.



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Report No.: KLPL/BTG/17/12-15R1

Date: 07.10.2018

IS/IEC 60529:2001					
Clause	Requirement – Test			Result-Remark	Verdict
<b>13</b>	<b>Tests for protection against solid foreign objects indicated by the First characteristic numeral.</b>				
First, characteristic Numeral.	Test means (object probes and dust chamber)	Test force	Test Conditions Refer IS/IEC 60529:2001		N
0	No test required	-	-		N
1	Rigid sphere without handle or guard 50 mm diameter.	50N ±10%	Cls.13.2		N
2	Rigid sphere without or guard 12, 5 mm diameter.	30N ±10%	Cls.13.2		N
3	Rigid steel rod 2,5mm diameter with edges free from burrs	3N± 10%	Cls.13.2		N
4	Rigid steel wire 1, mm diameter with edges free from burrs.	1N± 10%	Cls.13.2		N
5	Dust chamber, with under pressure	NA	Cls.13.4+13.5		N
6	Dust chamber, The enclosure is maintained below the Surrounding atmospheric pressure by a vacuum pump.	NA	Cls.13.4+13.6	For 8 hrs. As extraction rate is less than 40 Volumes per hour and max depression of 20mbar.	P
13.6.2	<b>Acceptance conditions for the first characteristic numeral 6X.</b> The protection is satisfactory if no hazardous deposit of dust is observable inside the UUT at the end of test.			No ingress of powder found inside the UUT.	P



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Report No.: KLPL/BTG/17/12-15R1

Date: 07.10.2018

**IS/IEC 60529:2001**

Clause	Requirement – Test	Result-Remark	Verdict	
<b>14</b>	<b>Tests for protection against water indicated by the second characteristic numeral.</b>			
Second, characteristic Numeral.	Test means	Test Conditions Refer IS/IEC 60529:2001	N	
0	No test required	Cls.14.2.0	N	
1	Drip box, Enclosure on turntable	Cls.14.2.1	N	
2	Drip box, Enclosure in 4 fixed positions of 15 ° tilt	Cls.14.2.2	N	
3	oscillating tube or spray nozzle, 60° from vertical	Cls.14.2.3	N	
4	oscillating tube or spray nozzle, 180° from vertical	Cls.14.2.4	N	
5	6.3-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 12.5 l/min ±5%	Cls.14.2.5	6.3 mm nozzle, Flow rate 12 lit/min, 2.5 – 3 m distance, 3 min duration.	P
6	12.5-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 100 l/min	Cls.14.2.6		N
7	Immersion tank,	Cls.14.2.7		N
8	Immersion tank, Continuous immersion subject to agreement. Water temperature does not differ from that of equipment by more than 5K.	Cls.14.2.8		N
-	<b>Acceptance conditions for IPX5:</b> The protection is satisfactory if no water has accumulated near the insulation, cable end or entered cables or interferes with the correct operation of the equipment.	Cls.14.3	No ingress of water observed inside the UUT.	P
-	Tests for protection against access to hazardous parts indicated by the additional letter.	Cls.15		N

**SUMMARY OF INGRESS PROTECTION TESTS ACCORDING TO IS/IEC 60529:2001**

**Conclusion of the IP65 test: PASS.**

The results of the tests were in compliance with the requirements in the standard IS/IEC 60529:2001

UUT=Unit Under Test



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Report No.: KLPL/BTG/17/12-15R1

Date: 07.10.2018



**Picture1:** JB 255 Enclosure Box, Size: 255(L)x200(H)x80(D) mm



**Picture2:** No ingress of powder & water observed

**END OF REPORT**



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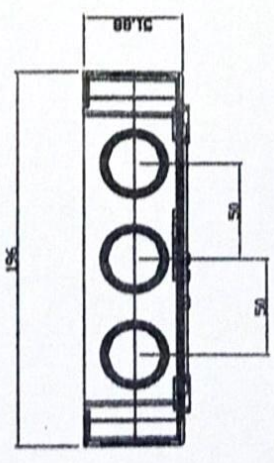
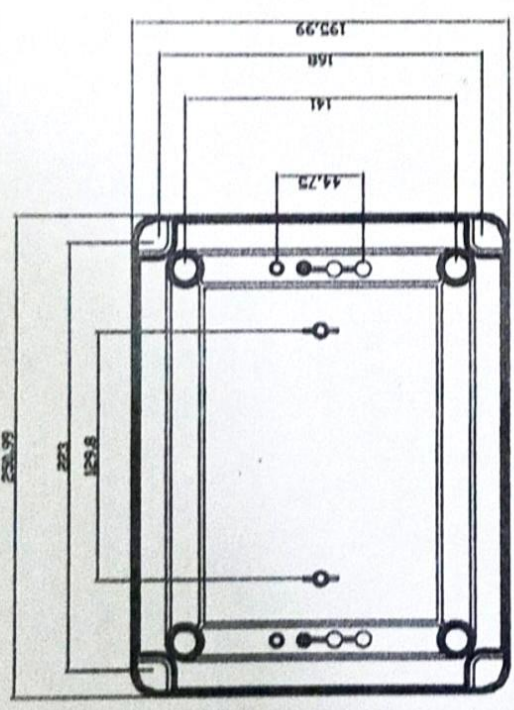
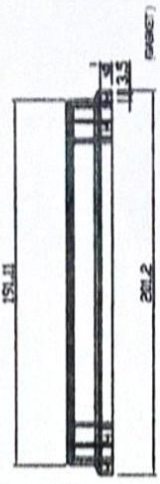
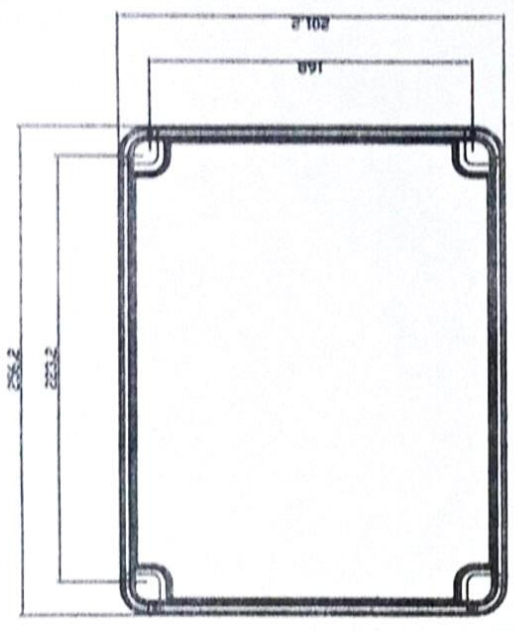
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Report No. KLR/876/17/12-15R1

PAGE 1 OF 1

MATERIAL	ENGINEERING PLASTIC	COMPANY	PRUTHVI PLASTO INDUSTRIES	
SIZE	255MMX200MMX80MM	ADDRESS	PLOT NO.197/1,GALA NO.10,1ST FLOOR 2ND PHASE VAPI	
GASKET	SILICON	BRAND	POSALI	
GAS-SIZE	3MMX4.5MMX830MM	TITLE	JB 255 ENCLOSURE BOX	
WEIGHT	430 GMS	DRN	MR.FAURK	1/12/2017
STANDARD	IP 65 AS PER STANDARD IS/IES 60529 : 2001	CKD	MR.KETAN	1/12/2017
REV. DATE	1/12/2017	APPD	MR.KETAN	1/12/2017
				DRAWING NO. 2
				REVISION NO. 2