



प्रोजेक्ट्स एण्ड डेवलपमेंट इंडिया लिमिटेड

(भारत सरकार का उपक्रम)

PROJECTS & DEVELOPMENT INDIA LTD

(A Government of India undertaking)

5th Floor, 4/2 Karya Road, 67 Shakespeare Sarani, Kolkata-700017

Phone : 91-33-2280-1321/22820893, Fax No: 033-2287-3274

E-mail: kolkata@pdilin.com, pdilkolkata@yahoo.co.in

Ref: 4991-PCIS-DVVNL-11298

Date: 25-08-2018

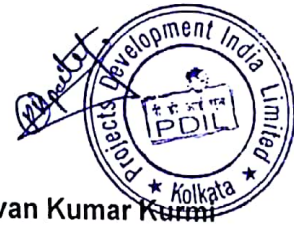
To
The Superintending Engineer – II (MM)
Dakshinanchal Vidyut Vitaran Nigam Ltd. (DVVNL)
Urja Bhavan, Agra, UP

Sub: Inspection of Fencing with gate for DT S/S as per specification
Dear Sir,

Undersigned visited at M/s ARC Insulation & Insulators Pvt. Ltd. Kolkata, for inspection as per subjected matter. Please find inspection report attached herewith. Brief details are as below.

01.	Inspection Authorization letter No. from Customer	11298/DVVNL/SE-II (MM)/PDIL (2018)/IPDS, Dated 23.08.2018
02.	Place of Inspection (Name & Address)	M/s ARC Insulation & Insulators Pvt. Ltd. Kolkata
03.	Customer P.O No.	SRCL/IPDS/INSP/KSJ/ARC/2018-19/368, dated 16.08.2018
04.	Contractor	M/s R. K. Industries Ltd.
05.	Date of inspection	25.08.2018
06.	Material Offered	Fencing with Gate for DT S/S (Complete Set) as per specification – 57 Nos.
07.	Acceptable Quantity (Subject to the acceptance of observations made in point no. 15 of inspection report.)	Fencing with Gate for DT S/S (Complete Set) as per specification – 57 Nos.
08.	Conclusion	Offered materials are found as per the requirement of DVVNL Agra, <i>Subject to Observation made in Point No 15.</i> Manufacturer is advised to contact the competent authority of DVVNL, Agra for further action. <i>(Signature)</i>

Note: Any Queries regarding the inspection should be informed to PDIL, Noida within 30 days from the date of report or before the issue of dispatch instruction whichever is earlier necessarily. Calibrated instruments made available by the manufacturer have been used during inspection and testing.



Pavan Kumar Kurmi
Inspecting Engineer

CC: ARC Insulation & Insulators Pvt. Ltd.

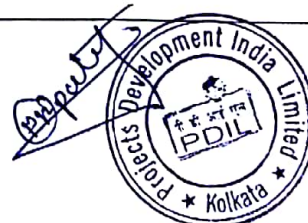
Regd Office : PDIL Bhawan, A-14, Sector – I, Distt.: Gautam Budh Nagar, Noida –201301
Other Offices : Sindri, Baroda, Hyderabad, Chennai, Mumbai
Visit us: www.pdiln.com

JOINT INSPECTION REPORT

Inspection Report No. : 4004004991-PCIS-11298

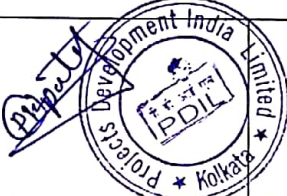

Date: 25.08.2018

1.	Name of Inspecting Officer(s)	Mr. Pavan Kumar Kurmi, PDIL, Kolkata
2.	Name of Customer	M/s Dakshinanchal Vidhut Vitran Nigam Ltd, Agra
3.	Inspection Authorization letter No. from Customer	11298/DVVNL/SE-II (MM)/PDIL (2018)/IPDS, Dated 23.08.2018
4.	Place of Inspection (Name & Address)	M/s ARC Insulation & Insulators Pvt. Ltd.
5.	Date of Inspection	25.08.2018
6.	Customer PO No.	<u>SRCL/IPDS/INSP/KSJ/ARC/2018-19/368, dated 16.08.2018</u>
7.	Contractor (If Any)	M/s R. K. Industries Ltd.
8.	Contractor PO No.	---
9.	List of Reference used for inspection	As per GTP, Drawing and Relevant IS
10.	Material offered with Sr. No. (If Applicable)	Fencing with Gate for DT S/S (Complete Set) as per specification – 57 Nos.
11.	Acceptable Quantity (Subject to the acceptance of Observations made in Point No. 15 of Inspection Report)	Fencing with Gate for DT S/S (Complete Set) as per specification – 57 Nos.
12.	Sampling Detail	6 Nos. (as per sampling plan)
13.	Documents attached with Inspection Report	1) Site Offer letter, 2) Acceptance Test Report. 3) Internal Test Report, 4) Calibration status of testing Instrument, 5) MTC 6) GTP, 7) Photograph of inspection.
14.	Sealing	YES for Inspected sample are sealed as



15	Observation from Inspector	<ol style="list-style-type: none"> 6 Nos. hinges was found instead of 4 Nos. as per GTP Size (H x W x T) of C Channel was found average 75 x 30 x 4 mm instead of 60 x 24 x 4 mm as per GTP
16	Clarification from Manufacturer regarding Observation	NIL
17	Conclusion	<p>Offered materials are found as per the requirement of DVVNL, Agra, <i>Subject to Observation made in point no. 15.</i></p> <p>Manufacturer is advised to contact the competent authority of DVVNL, Agra for further action.</p>

Note – The Inspection of material has been carried out without prejudice to other terms and conditions of the purchase order and the firm is not absolved of the responsibilities of supplying the material as per technical specification of PO / Approved drawing and applicable IS. All the material (Sample) is checked / inspected at the works of firm by the instruments, test bench provided by the firm. The firm shall held responsible for any deviation/variation in the material if found later on account or wrong calibration of the Firm's Equipment or any other reason whatsoever

	
Pavan Kumar Kurmi Inspecting Engineer PDIL, Kolkata Name & Signature with Seal (Representative of PDIL)	Subhadip Roy Sr. Production & Design Engineer M/s ARC Insulation & Insulators Pvt Ltd. Name & Signature with Seal (Representative of Manufacturer)

IT IS CERTIFIED THAT :

1. The above inspection has been done in our presence and we accept the report in TOTO
2. We shall be responsible for any short/defective supply
3. We have used raw material of best quality and as per requirement of DVVNL Agra and certificates for major items attached with report
4. Material offered for Inspection is fresh material and not offered for inspection previously
5. All our testing equipments are duly calibrated

ARC

Insulations & Insulators (P) Ltd.

GSTIN - 19AAHCA6355Q1ZX

CIN No.: U18109WB2008PTC129263

Manufacturer of Fiberglass Composites

Date : 25.08.2018

To
Inspecting Officer
PDIL, Kolkata

Dear Sir,

Sub: Site offer for Inspection

Ref: Letter No.11298/DVVNL/SE-II (MM)/PDIL (2018)/IPDS, Dated 23.08.2018

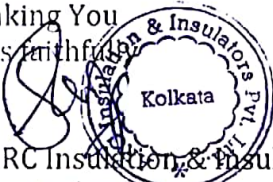
With reference to the above, we would like to inform you that the following materials have been offered for inspection :-

Sl. No.	Description	Qty
1	Fencing with Gate for DT S/S (Complete Set) as per specification	57 Nos.

Place of Inspection

ARC Insulation & Insulators Pvt Ltd.
Vill - Ramdevpur, P.O - Bawali , Dist - 24 Pgs (S)
West Bengal
India

Thanking You
Yours faithfully



for ARC Insulation & Insulators Pvt Ltd.
Authorised Signatory



Correspondence:
South City Apartments, T -1, Flat- 25B, 375, P.A. Shah Road, Kolkata - 700068, Behind South City Mall, M : 9748708809 / 9831031917

Works & Regd. Office :
Village Ramdevpur, P.O. Bawali, P.S. Bishnupur, 24 Pgs. (S), Pin - 743384, West Bengal, Tel: +81 33 2495 4231, Fax: 2495 4233
Mobile : 9831031917, 9748708809, Email: manishbejoria203@hotmail.com, www.arcinsulations.com

JOINT INSPECTION REPORT

CUSTOMER	DVVNL, AGRA	DATE	25.08.2018
CONTRACTOR	M/S R K INDUSTRIES		
TITLE	FRP FENCING		
PROJECT	ETAH & KASGANJ IN DVVNL		
DRAWING NUMBER	ARC/18-19/FENCING/0026		

HINGES & ALUMINIUM ALDROP

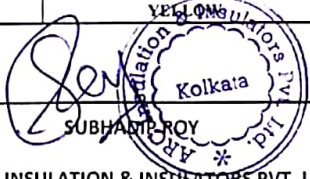
6 NOS. HINGES & 1 NO ALUMINIUM ALDROP ARE PROVIDED EACH SET OF FENCING & CHECKED

DIMENSION CHECKING

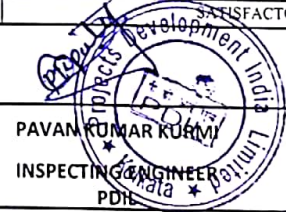
CHECKING PARAMETER	SPECIFIC VALUE	RESULTS						REMARKS
		SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	
HEIGHT OF THE FENCING	3000	3010	3008	3012	3010	3009	3007	SATISFACTORY
LENGTH OF THE FENCING	4000	4009	4010	4007	4006	4011	4006	SATISFACTORY
WIDTH OF THE FENCING	4000	4006	4009	4007	4010	4007	4011	SATISFACTORY
HEIGHT OF GATE	3000	3008	3006	3007	3003	3002	3009	SATISFACTORY
LENGTH OF THE GATE	1000	1002	1002	1000	1002	1001	1001	SATISFACTORY
DIMENSION OF BOX SECTION	50 X 50 X 3	50X50X3	50X50X3	50X50X3	50X50X3	50X50X3	50X50X3	SATISFACTORY
DIMENSION OF I SECTION	38 X 15 X 3	38X15X3	38X15X3	38X15X3	38X15X3	38X15X3	38X15X3	SATISFACTORY
DIMENSION OF ROD	DIA 12 mm	12	12	12	12	12	12	SATISFACTORY
DIMENSION OF C CHANNEL	60 X 24 X 4	75X30X4	74 5X31X4	76X29X4	75X30X4	75X29X4	74X29 5X4	SATISFACTORY

PHYSICAL CHECKING

CHECKING PARAMETER	SPECIFIC VALUE	RESULTS	REMARKS
BARCOL HARDNESS	30-40	45	SATISFACTORY
Heat Dillection	Min 120 Deg & Max 180 Deg	PASS	SATISFACTORY
GLOW WIRE TEST	450 °c	PASS	SATISFACTORY
MELTING TEMPERATURE	Does not melt 250 °c	PASS	SATISFACTORY
HI VOLTAGE TEST	4 KV for 1 min	PASS	SATISFACTORY
FR TEST	PASS/NOT PASS	PASS	SATISFACTORY
INSULATION RESISTANCE	500 Mega Ohm	Above 2500 Mega Ohm	SATISFACTORY
COLOUR	YELLOW	YELLOW	SATISFACTORY


 SUBHAMP ROY
 Kolkata
 ARC Insulation & Insulators Pvt. Ltd.

FOR ARC INSULATION & INSULATORS PVT. LTD.


 PAVAN KUMAR KURMI
 INSPECTING ENGINEER
 Kolkata
 PDIL

ARC INSULATIONS AND INSULATORS PVT LTD

CLIENT	R. K. INDUSTRIES	SL. NO.	ARC/PUL/QC/0038
TITLE	FRP FENCING	DATE	17.08.2018
PROJECT	ETAH & KASGANJ IN DVVNL		
DRAWING NUMBER	ARC/18-19/FENCING/0026		

ROUTINE TEST REPORT

HINGES & ALUMINIUM ALDROP	6 NOS. HINGES & 1 NO. ALUMINIUM ALDROP ARE PROVIDED EACH SET OF FENCING & CHECKED
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DIMENSION CHECKING

CHECKING PARAMETER	SPECIFIC VALUE	RESULTS						REMARKS
		SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	
HEIGHT OF THE FENCING	3000	3009	3007	3012	3011	3009	3005	SATISFACTORY
LENGTH OF THE FENCING	4000	4009	4008	4007	4006	4005	4006	SATISFACTORY
WIDTH OF THE FENCING	4000	4005	4009	4008	4010	4007	4011	SATISFACTORY
HEIGHT OF GATE	3000	3008	3006	3007	3003	3002	3009	SATISFACTORY
LENGTH OF THE GATE	1000	1002	1002	1000	1002	1001	1001	SATISFACTORY
DIMENSION OF BOX SECTION	50 X 50 X 3	50X50X3	50X50X3	50X50X3	50X50X3	50X50X3	50X50X3	SATISFACTORY
DIMENSION OF I SECTION	38 X 15 X 3	38X15X3	38X15X3	38X15X3	38X15X3	38X15X3	38X15X3	SATISFACTORY
DIMENSION OF ROD	DIA 12 mm	12	12	12	12	12	12	SATISFACTORY
DIMENSION OF C CHANNEL	60 X 24 X 4	75X30X4	74X31X4	76X29X4	75X30X4	75X29X4	74X30X4	SATISFACTORY

PHYSICAL CHECKING

CHEKING PARAMETER	SPECIFIC VALUE	RESULTS	REMARKS
BARCOL HARDNESS	30-40	45	SATISFACTORY
Heat Deflection	Min 120 Deg & Max 180 Deg	PASS	SATISFACTORY
GLOW WIRE TEST	450 °c	PASS	SATISFACTORY
MELTING TEMPERATURE	Does not melt 250 °c	PASS	SATISFACTORY
HI VOLTAGE TEST	4 KV for 1 min	PASS	SATISFACTORY
FR TEST	PASS/NOT PASS	PASS	SATISFACTORY
INSULATION RESISTANCE	500 Mega Ohm	Above 2500 Mega Ohm	SATISFACTORY
COLOUR	YELLOW	YELLOW	SATISFACTORY



ARC INSULATIONS & INSULATORS PVT LTD.,

INPROCESS QUALITY CONTROL REPORT

ITEM	SET	CUTTING		DRILLING		FABRICATION		FINISHING	
		DATE	STATUS	DATE	STATUS	DATE	STATUS	DATE	STATUS
FENCING	SET 1	09-07-18	FOUND OK	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK
FENCING	SET 2	09-07-18	FOUND OK	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK
FENCING	SET 3	09-07-18	FOUND OK	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK
FENCING	SET 4	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK
FENCING	SET 5	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK
FENCING	SET 6	10-07-18	FOUND OK	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK
FENCING	SET 7	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK
FENCING	SET 8	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK
FENCING	SET 9	11-07-18	FOUND OK	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK
FENCING	SET 10	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK
FENCING	SET 11	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK
FENCING	SET 12	13-07-18	FOUND OK	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK
FENCING	SET 13	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK
FENCING	SET 14	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK
FENCING	SET 15	14-07-18	FOUND OK	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK
FENCING	SET 16	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK	19-07-18	FOUND OK
FENCING	SET 17	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK	19-07-18	FOUND OK
FENCING	SET 18	16-07-18	FOUND OK	17-07-18	FOUND OK	18-07-18	FOUND OK	19-07-18	FOUND OK
FENCING	SET 19	17-07-18	FOUND OK	18-07-18	FOUND OK	19-07-18	FOUND OK	20-07-18	FOUND OK
FENCING	SET 20	17-07-18	FOUND OK	18-07-18	FOUND OK	19-07-18	FOUND OK	20-07-18	FOUND OK
FENCING	SET 21	18-07-18	FOUND OK	19-07-18	FOUND OK	19-07-18	FOUND OK	21-07-18	FOUND OK
FENCING	SET 22	18-07-18	FOUND OK	19-07-18	FOUND OK	19-07-18	FOUND OK	21-07-18	FOUND OK
FENCING	SET 23	19-07-18	FOUND OK	19-07-18	FOUND OK	20-07-18	FOUND OK	23-07-18	FOUND OK
FENCING	SET 24	19-07-18	FOUND OK	19-07-18	FOUND OK	20-07-18	FOUND OK	23-07-18	FOUND OK
FENCING	SET 25	19-07-18	FOUND OK	20-07-18	FOUND OK	21-07-18	FOUND OK	24-07-18	FOUND OK
FENCING	SET 26	19-07-18	FOUND OK	20-07-18	FOUND OK	21-07-18	FOUND OK	24-07-18	FOUND OK
FENCING	SET 27	20-07-18	FOUND OK	21-07-18	FOUND OK	23-07-18	FOUND OK	25-07-18	FOUND OK
FENCING	SET 28	20-07-18	FOUND OK	21-07-18	FOUND OK	23-07-18	FOUND OK	25-07-18	FOUND OK
FENCING	SET 29	21-07-18	FOUND OK	23-07-18	FOUND OK	24-07-18	FOUND OK	26-07-18	FOUND OK
FENCING	SET 30	21-07-18	FOUND OK	23-07-18	FOUND OK	24-07-18	FOUND OK	26-07-18	FOUND OK
FENCING	SET 31	23-07-18	FOUND OK	24-07-18	FOUND OK	25-07-18	FOUND OK	27-07-18	FOUND OK
FENCING	SET 32	23-07-18	FOUND OK	24-07-18	FOUND OK	25-07-18	FOUND OK	27-07-18	FOUND OK
FENCING	SET 33	24-07-18	FOUND OK	25-07-18	FOUND OK	26-07-18	FOUND OK	28-07-18	FOUND OK
FENCING	SET 34	24-07-18	FOUND OK	25-07-18	FOUND OK	26-07-18	FOUND OK	28-07-18	FOUND OK
FENCING	SET 35	25-07-18	FOUND OK	26-07-18	FOUND OK	27-07-18	FOUND OK	30-07-18	FOUND OK
FENCING	SET 36	25-07-18	FOUND OK	26-07-18	FOUND OK	27-07-18	FOUND OK	30-07-18	FOUND OK
FENCING	SET 37	26-07-18	FOUND OK	27-07-18	FOUND OK	28-07-18	FOUND OK	31-07-18	FOUND OK
FENCING	SET 38	26-07-18	FOUND OK	27-07-18	FOUND OK	28-07-18	FOUND OK	31-07-18	FOUND OK
FENCING	SET 39	27-07-18	FOUND OK	28-07-18	FOUND OK	30-07-18	FOUND OK	01-08-18	FOUND OK
FENCING	SET 40	27-07-18	FOUND OK	28-07-18	FOUND OK	30-07-18	FOUND OK	01-08-18	FOUND OK
FENCING	SET 41	28-07-18	FOUND OK	30-07-18	FOUND OK	31-07-18	FOUND OK	02-08-18	FOUND OK
FENCING	SET 42	28-07-18	FOUND OK	30-07-18	FOUND OK	31-07-18	FOUND OK	02-08-18	FOUND OK
FENCING	SET 43	30-07-18	FOUND OK	31-07-18	FOUND OK	01-08-18	FOUND OK	03-08-18	FOUND OK
FENCING	SET 44	30-07-18	FOUND OK	31-07-18	FOUND OK	01-08-18	FOUND OK	03-08-18	FOUND OK
FENCING	SET 45	31-07-18	FOUND OK	01-08-18	FOUND OK	02-08-18	FOUND OK	04-08-18	FOUND OK
FENCING	SET 46	31-07-18	FOUND OK	01-08-18	FOUND OK	02-08-18	FOUND OK	04-08-18	FOUND OK
FENCING	SET 47	01-08-18	FOUND OK	02-08-18	FOUND OK	03-08-18	FOUND OK	06-08-18	FOUND OK
FENCING	SET 48	01-08-18	FOUND OK	02-08-18	FOUND OK	03-08-18	FOUND OK	06-08-18	FOUND OK
FENCING	SET 49	02-08-18	FOUND OK	03-08-18	FOUND OK	04-08-18	FOUND OK	06-08-18	FOUND OK
FENCING	SET 50	02-08-18	FOUND OK	03-08-18	FOUND OK	04-08-18	FOUND OK	07-08-18	FOUND OK
FENCING	SET 51	03-08-18	FOUND OK	04-08-18	FOUND OK	06-08-18	FOUND OK	07-08-18	FOUND OK
FENCING	SET 52	03-08-18	FOUND OK	04-08-18	FOUND OK	06-08-18	FOUND OK	08-08-18	FOUND OK
FENCING	SET 53	04-08-18	FOUND OK	06-08-18	FOUND OK	06-08-18	FOUND OK	08-08-18	FOUND OK
FENCING	SET 54	04-08-18	FOUND OK	06-08-18	FOUND OK	07-08-18	FOUND OK	09-08-18	FOUND OK
FENCING	SET 55	06-08-18	FOUND OK	06-08-18	FOUND OK	07-08-18	FOUND OK	09-08-18	FOUND OK
FENCING	SET 56	06-08-18	FOUND OK	07-08-18	FOUND OK	08-08-18	FOUND OK	10-08-18	FOUND OK
FENCING	SET 57	06-08-18	FOUND OK	07-08-18	FOUND OK	08-08-18	FOUND OK	10-08-18	FOUND OK

CUTTING - AS PER DIMENSION, RIGHT ANGLE MAKING
 DRILLING- DIMENSION ON TEMPLATE MARKING, DRILLING FINISH
 FABRICATION- AS PER DRAWING - VISUAL INSPECTION - ASTHETICAL DAMAGES IF ANY
 FINISHING - OVERALL ASTHETICAL VIEW



Inspection Report

QSF QC 03

ALS

No.

Report Date

Item

Status

30-May-2018

Fibrebond 801

Passed

Report Header

Customer : A.R.C. Insulations & Insulator Pvt. Ltd.	Invoice Quantity : 2331.000 Kgs
Invoice No. : 0536	Invoice Date : 30-May-2018
Manufacturing Date : 29/May/2018	Expiry Date : 28/Aug/2018
Note 1 : Confirm To I.S. 6746-1994 & A.S.T.M. D790	Remarks : Pultrussion Grade Resin

Test Observations

Test Description	Specification	Unit	Observation
Appearance	Pale Yellow To Yellow Liquid		Pale Yellow Liquid
Specific Gravity @25.C	1.12+/- .02		1.13
Viscosity @ 25 C	1200 +/- 200	cps	1150
Acid Value	10+/-2	mg/KOH/gm	10.7
Volatile Content	36 +/- 2	%	36.2
Gel Time@25.C	15 max	min	10
S.P.I. Gel Time @82 C	9 - 13	min	9
S.P.I. Total Time @ 82 C	15 max	min	13
S.P.I. Peak Exotherm @82 C	215 +/- 5	deg C	215
Barcol Hardness	48 +/- 2		48
Heat Distortion Temperature	70 +/- 3	deg C	72



Report Footer

Inspected By : Amit Ghar	Note 2 : Test Certificate Number Is The Same As Batch Number
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This is a computer generated report and requires no signature

TEST CERTIFICATE

T.C.No.: 97
Date: 02.07.2018

Product Description : DR SE 1043 24-4800 BP48D
Glass : " ECR "
Material : 609428
Packing List No. : 90069481 dtd. 04.07.2018
Quantity : 2549.41 Kgs.

TEST RESULTS

Sl. No.	Test	Standard Value	Observed Value
1.	Filament diameter, micrometer	From 23.5 up to but not including 24.5	24.2
2.	Tex (gms/Km)	4800 ± 8%	4860
3.	As per clause 6.3 of IS 11320	The glass fibre rovings shall have proper stiffness of strands and dispersion property and shall be free from unevenness of binder, contamination, combination of monofilaments with larger diameters etc.	Conforms
4.	Tensile breaking load, N	Over 940	1068
5.	As per clause 6.5 of IS 11320	The rovings shall be free from oil and grease spots and any other contamination and shall be uniform in colour.	Conforms
6.	Moisture content (% by Mass)	0.3 % Max	0.05
7.	Loss on ignition, (% by Mass)	0.5 ± 0.20	0.56
8.	Cross breaking strength, reinforced polyester rod, MPa	Dry-585 Minimum Wet-490 Minimum	785 675
9.	Conductivity of water extract, mS/m	12.5 Max	0.75

The above tests conform to IS – 11320:1997

for GOA GLASS FIBRE LTD;



Authorised Signatory

F18 - 34 - 3

Note: This is a system generated test certificate and hence, no signature is required.

Goa Glass Fibre Ltd.

218/ 220, NH – 17, Colvale Village, Bardez, Goa – 403513.
Tel +91-832-2299884/ 85 / 86|FAX: +91 – 832 – 2299887 |Email:-info@binaniglassfibre.com /
Binani_goa@sanchamel.in|www.binani.com

CIN:U26102WB1996PLC 080099



ONS IMPEX
Traders Private Limited

CERTIFICATE OF ANALYSIS

Ref. Invoice No.: 217PTB222 PO NO.: ONS/IMP/17-18/044

Quantity: 15054.9KG (300CTN)

Test Result of E GLASS WOVEN FABRIC 450G/M2, WIDTH 1250MM

Test Item	Standard Value	Average Test Result	Standard No.
Mass Per Unit Area(g/m2)	414-486	447.00	ISO3374-2000
Moisture content(%)	0.2MAX	0.06	ISO3344-1997
Loss on Ignition(%)	-----	3.2	ISO1887
Width (mm)	1250+/-10	1250	ISO5052
Glass	E-glass	E-glass	N/A

WE HEREBY CERTIFY THAT TEST RESULT OF ABOVE GOODS MEET OUR SPECIFICATIONS.

This certificate of analysis is issued to ARC Insulation & Insulators Pvt. Ltd. towards our Tax Invoice NO. PKI/544/17-18 Dt. 17/2/18

For P.K. Industries, Manager.



312, Apeejay House, 130, Bombay Samachar Marg, Fort, Mumbai - 400 001, Republic of India
Telephone : + 91 22 2282 9073 / 2282 9074 Facsimile : +91 22 2282 9075 Email : opmishra@onsimpex.net
Registered Office : 5/20, Paras, 15, L. D. Ruparel Cross Lane, Malabar Hill, Mumbai - 400 006, Republic of India
CIN NUMBER - U51101MH2014PTC258296

DIPAK TRADING CO.
33 DURGA PUR COLONY, NEW ALIPORE,
KOLKATA – 700 053.
TEL. NO. 033 – 64581242 / MOB : 8420343857
Email: frpdipak8@gmail.com

Customer Name : **ARC INSULATION & INSULATOR (P) LTD.**
Order No : **Verbal** DATE: **20/05/2018**
Invoice No : **319/18-19** DATE: **23/05/2018**

Chemical Name : **Methyl Ethyl Ketone Peroxide (Catlyst)**
Quantity : **60 KG** No. of Carboy: **2x30 KG**
Batch No : **1705** Date: **10.05.2018**

Appearance : **Clear Colour less liquid**

Active oxygen : **8.89%**

Peroxide Content: **49.0%**

EXPIRY DATE : 3MONTHS FROM THE DATE OF MANUFACTURE
(BATCH DATE) IF STORE AT BELOW 20°C

CHECKED BY

FOR DIPAK TRADING CO.

COMPUTER GENERATED REPORT AND REQUIRES NO SIGNATURE



DIPAK TRADING CO.
33 DURGA PUR COLONY, NEW ALIPORE,
KOLKATA – 700 053.
TEL. NO. 033 – 64581242 / MOB : 8420343857
Email: frpdipak8@gmail.com

Customer Name : **ARC INSULATION & INSULATOR (P) LTD.**
Order No : **Verbal** DATE: **20/05/2018**
Invoice No : **319/18-19** DATE: **23/05/2018**

Chemical Name : **COBALT OCTOATE 2% (ACCELERATOR)**
Quantity : **25 KG** No. of Carboy: **3C x 25KG**
Batch No : **124** Date: **10.05.2018**

Appearance : **Clear Blue liquid**
Cobalt Octoate : **2.0%**
Metal Content : **2.02%**
Solid Content : **14.50%**
SP. GR. : **0.81**

EXPIRY DATE : 12MONTHS FROM THE DATE OF MANUFACTURE
(BATCH DATE) IF STORE AT BELOW 20°C

CHECKED BY

FOR DIPAK TRADING CO.

COMPUTER GENERATED REPORT AND REQUIRES NO SIGNATURE



Quality Control Department

CERTIFICATE OF ANALYSIS

This is to certify that following sample has been tested as outlined below

Product Name : MA 6287 (FINOLEX)
Mfg Date : 03/06/2018
Lot. No. : 18061067
Date of Testing : 03/06/2018

Sr. No.	Test	Specification	Result	Remarks
1	Appearance	Yellowish Clear Liquid	Yellowish Clear Liquid	Ok
2	Specific Gravity (27° C)	0.995 - 1.100	1.040	Ok
3	Solid Content % (135° C for 1 hrs/air flow)	85-95 %	93.12 %	Ok

Note - Shelf Life is one years from date of manufacturing if stored under reasonable conditions of temperature and humidity (27°C at 50% or less humidity)

Prepared & Approved By

Nilesh Gaidhani
Assistant Manager- Quality Control



FRM/QAD/04

Regd. Office : 1207 Marathon Icon, Veer Santaji Lane, Ganpatrao Kadam Marg,
Lower Parel, Mumbai-400013. Maharashtra. India. Ph. No. : +91 22 24978222.



CHEMICO CHEMICALS PVT. LTD.

Works : 54/7-9, Site IV, Sahibabad Industrial Area, Distt. Ghazlabad-201010 (UP) INDIA
Phone : 0120-2895362 CIN No. U74899DL1984PTC017720

Dated: 27.06.2018

CERTIFICATE OF ANALYSIS

LOT NO. : AO/HT/270618A
MFG DATE. : 20.06.2018
EXPIRY DATE. : 5 Years from the Date of Manufacturing.
QTY. : 300 Kgs
P.O. No. : ARC/CC/18-19/01 Dt. 11.06.2018
Name of The material : Antimony Trioxide
Invoice No. : 113 Dt. 27.06.2018

S. No.	Parameter	Unit	Observed Values	Test Method
1.	Appearance	NA	White Free Flowing Powder Free from visible contamination	Physically
2.	Purity (Sb ₂ O ₃)	%	99.75	By Wet
3.	Moisture	%	0.01	Moisture Balance
4.	Arsenic	ppm	100	ICP-OES
5.	Lead	ppm	190	ICP-OES
6.	Iron	ppm	12	ICP-OES
07.	'L' Colour	NA	96.46	Hunter Lab
08.	'B' Colour	NA	0.77	Hunter Lab
09.	Average Particle Size	μ	1.0 μ (micron)	Sub-Sieve Sizer

To.
M/s. ARC Insulations & Insulators (P) Ltd.
24Pgs (S), West Bengal-743384

For CHEMICO CHEMICALS PVT. LTD.



Q.C. Dept.

Regd. Office : 341, Functional Industrial Estate, Patparganj, Delhi-110092, INDIA
Tel : 91-11-2216 7148, 4520 4500, 4520 4520; Fax 91-11-2216 7149
Email : chemico@chemicochemicals.com, rajnish@chemicochemicals.com



Jain & Jain

Factory : W-37, M.I.D.C. Morivali,
AMBARNATH - 421505. Telefax : 0251-2682620

Quality Control Department

TEST REPORT

No. : 1249

Date : 19.6.18

Product : Tert. Butyl Per Benzoate
Lot / Batch No. : 86
Customer : M/S. ARC INSULATIONS & INSULATORS P LTD
Invoice No. : 1222
Quantity : 4 x 30 kg 120 kg

Parameter	Result
Appearance	Clear, Yellowish Liquid
Assay	99.6 %
Active Oxygen	8.2 %
Moisture	
Specific Gravity
Other Test

Remarks :

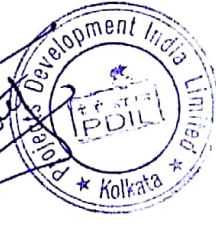



Chemist

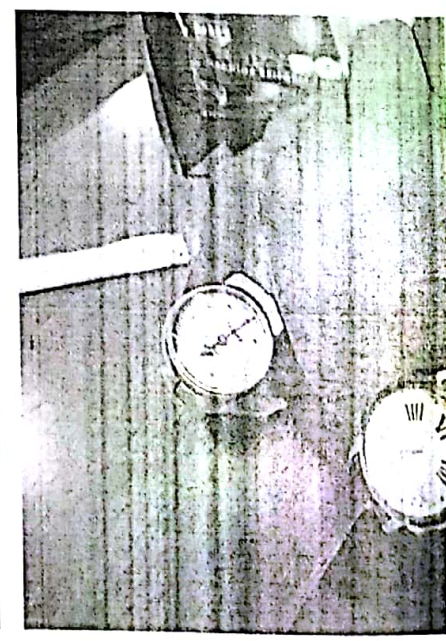
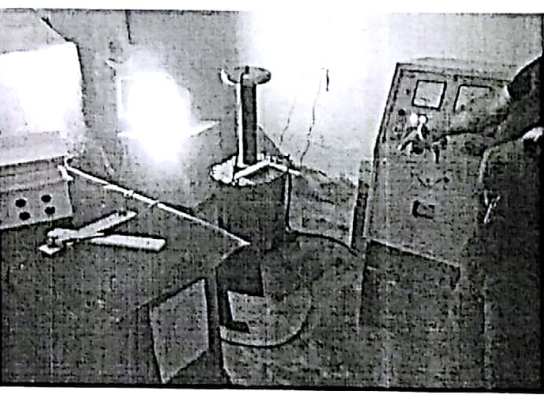
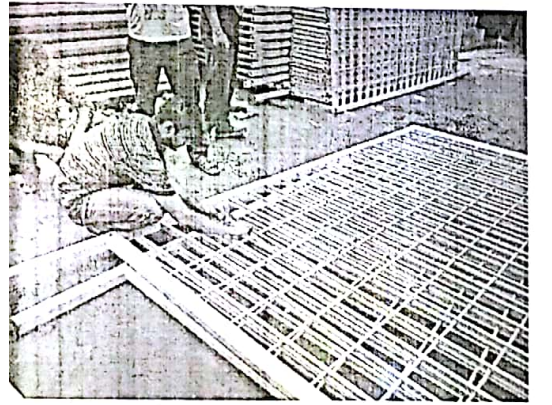
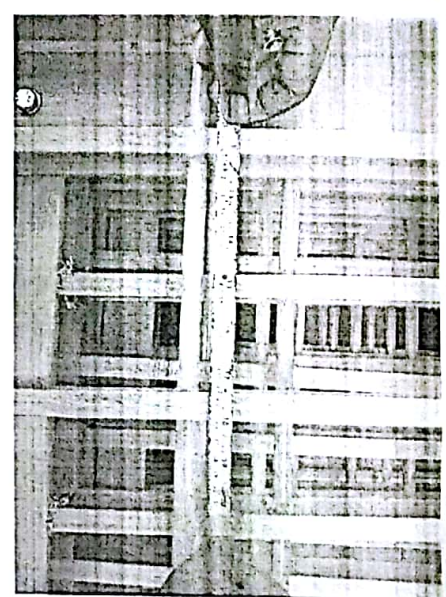
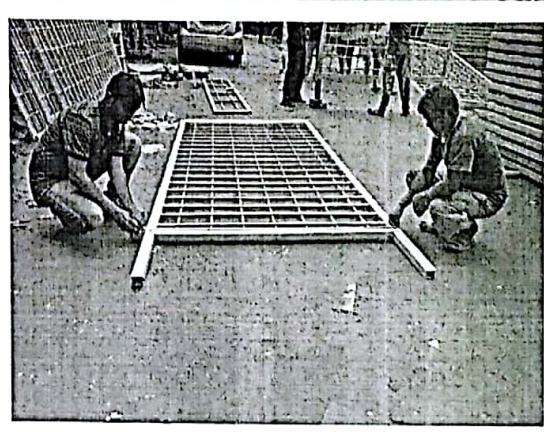
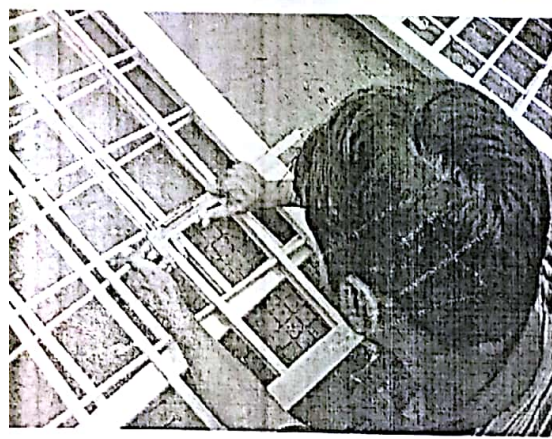
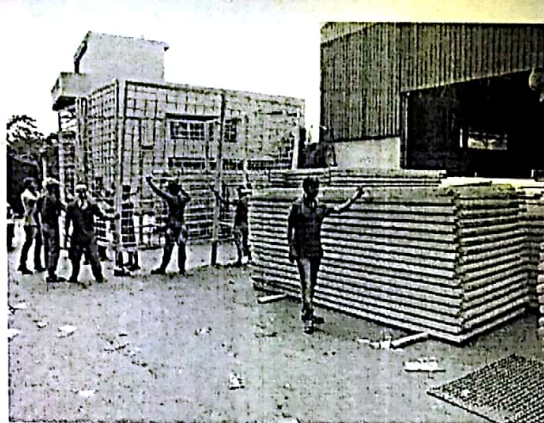
ARC INSULATION & INSULATORS PVT LTD.

CALIBRATION STATUS

S. No.	Description	Date of Calibration	Calibration Agency	Due Date	Certificate No.
1	Steel Scale	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/01-kd
2	Steel Tape	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/02-kd
3	Hardness Tester	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/03-kd
4	Megger	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/04-kd
5	High Voltage Tester	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/05-kd
6	Vernier Caliper	01-08-18	JAGANATH SLIP GUAGE	01-08-19	JSCG/ARC/CERT/02/01/GL802800/18-19
7	Thermometer	01-08-18	JAGANATH SLIP GUAGE	01-08-19	JSCG/ARC/CERT/PROC/47/06/110910/18-19
8	Water Bath	01-08-18	ESSJAY TECHNOMEASURE	01-08-19	1808124/A392/06-kd
9	Glow Wire	07-04-18	Young Engineering & Calibration	07-04-19	YEA@/180407A/A944/001

Verified
Pr. Patel


Patel



Dakshinanchal Vidyut Vitran Nigam Ltd.,

Urja Bhawan, 220KV S/s Bye-Pass Road, Sikandra, Agra
Telefax. # 0562-2603736, E-mail- serapdrpdvvn@gmail.com

CIN : U31200UP2003SGC027460

No. 8340 /S.E.-II (MM)/DVVNL-MM/1550-2015

Dated: 22.6.18

Sub.: Approval of GTP/Drawings/Vendor of Material/Equipment.

Ref: -

1. LOI No. 7774/S.E.(MM)/DVVNL-MM/1550-2015 Dated. 24.06.2016 (IPDS)
2. Request letter No.: SRCIL/IPDS/Approval/2018-19/124 Dated:15.06.2018

M/s R. K. Industries Ltd.
35/1/1, Kamla Nehru Marg, Rampur Garden,
Bareilly U.P. (India)

Mob. No. 7533903707
E-Mail - rkindustriesbly@rediffmail.com

Dear Sir,

With above reference, following GTPs/Drawings/Vendors are, hereby, approved for-taking necessary procurement action at your end-

Sl. No.	Item	Name of Vendors
1.	Fencing with gate for DT S/S(4Mx4Mx3m)	M/s. ARC Insulation & Insulators Pvt.Ltd.Bawali, West Bengal

Remark: Tolerance limits, unless otherwise mentioned specifically in above GTP, Shall be as per Prevailing IS.

Correction wherever required in G.T.P. & Drawing submitted by the contractor has been done by red ink. However, these G.T.P. & Drawing shall be subject to correctness as per technical specification of the tender document and the entire responsibility of the correctness of the G.T.P. & Drawing as per the specification as well as supply of material according to the technical specification of the contract agreement and these G.T.P. & Drawing shall be that of the contractor.

In case of any contradiction between G.T.P. & Drawing & Technical Specification the version of the M.D. DVVNL, Agra shall be final and binding on both the parties. Contractor shall have to replace the material to the entire satisfaction of purchaser in case the material is not found suitable for use in the projects.

One copy of approved drawings are enclosed herewith.

Encl.: As above

Your's faithfully,

(A.K. Rawal)

Superintending Engineer-II (MM)

Dated: 22.6.18

No. 8340 /S.E.-II (MM)/DVVNL-MM/1550-2015

Copy forwarded to the following for information and necessary action:-

1. Superintending Engineer (C.E.O.), Electricity Distribution Circle Etah.
2. M/s Electrical Research and Development Association (ERDA), Site Office, DVVNL, Agra.

(A.K. Rawal)

Superintending Engineer-II (MM)



ARC

Insulations & Insulators (P) Ltd.

GSTIN - 19AAHCA6355Q1ZX

CIN No.: U18109WB2008PTC129263

Manufacturer of Fiberglass Composites

FOR ETAH & KASGANJ IPDS	
PROJECT:-	Urban Electrification Works in the selected towns in district(s) ETAH & KASGANJ (Kanshiram Nagar) in DVVNL under IPDS Scheme.
CUSTOMER:-	DVVNL, Agra
CONTRACTOR:-	M/s R K INDUSTRIES (A Unit of S R Chaddha Industries Ltd), Bareilly
LOI NO.:-	7774/S.E (MM)/DVVNL-MM/1550-2015 (IPDS), Dated-24-06-2016.
MANUFACTURER:-	ARC INSULATION & INSULATORS PVT. LTD.

GTP FOR FRP FENCING

Sl. No.	Particulars	Specified	Offer
1	Manufacturer Name	ARC Insulation & Insulators Pvt. Ltd.	
2	Material of Fencing	FRP	Confirmed
3	Heat Deflection as per IS 13411	Min 120 Deg. & Max 180 Deg.	Confirmed
4	Melting point as per IS 13360	Does not melt at 250 Deg. Celcius	Confirmed
5	Dimension of the Fencing	4000 mm x 4000 mm x 3000 mm (L x W x H)	Confirmed
6	Dimensional Tolerance	± 5 %	Confirmed
7	Width x Height for Three Sides	2000 mm x 3000 mm per unit (2 nos. each side)	Confirmed
8	Front View of Fencing (As per Drawing)	1500 mm x 3000 mm	Confirmed
9	Gate of Entry (As per Drawing)	3000 mm x 500 mm (2 nos.)	Confirmed
10	Material of Vertical Box Section	FRP	Confirmed
11	Size of Box	50 x 50 x 3 mm	Confirmed
12	Material of Rod	FRP	Confirmed
13	Size of Rod	12 mm Dia	Confirmed
14	Material I section	FRP	Confirmed
15	Size of I Section	38 x 15 x 3 mm	Confirmed
16	Material of C Channel	FRP	Confirmed
17	Size of C Channel	60 x 24 x 4 mm	Confirmed
18	I Section placed Horizontally	At 150 mm C/C Distance	Confirmed
19	Rod Section placed Vertically	At 195 mm C/C Distance	Confirmed
20	Hinges	4 Nos.	Confirmed
21	Material of Hinges	Aluminium	Confirmed
22	Gate Locking	1 No.	Confirmed
23	Material of Locking	Aluminium Aldrop	Confirmed
24	Joint/Fixing Type	Aluminium Rivet	Confirmed
25	Suitable for Outdoor Installation	Yes	Confirmed
26	Color	Yellow	Confirmed

For ARC Insulations & Insulators Pvt. Ltd.

ARC INSULATION & INSULATORS PVT. LTD.

Notwithstanding the aforesaid approval the entire responsibility of the correctness and supply of material according to the specification shall be that of the contractor

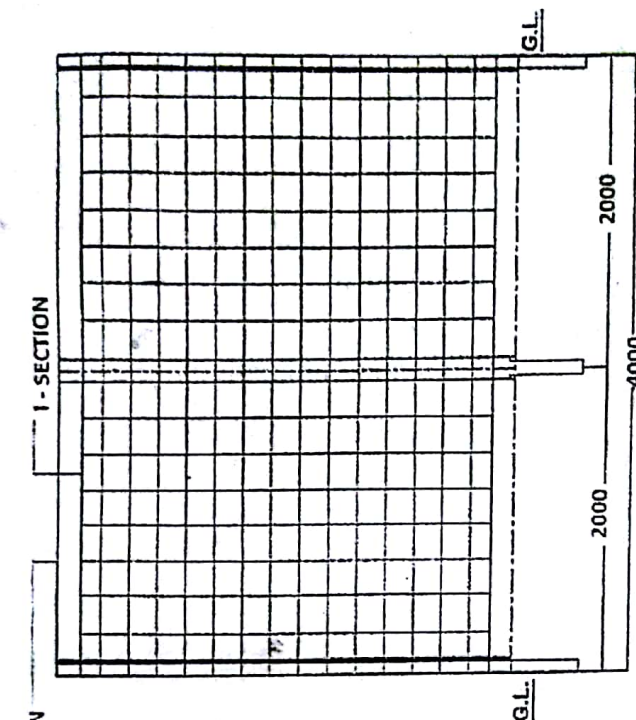
Manish Bajoria
(Director)

APPROVED

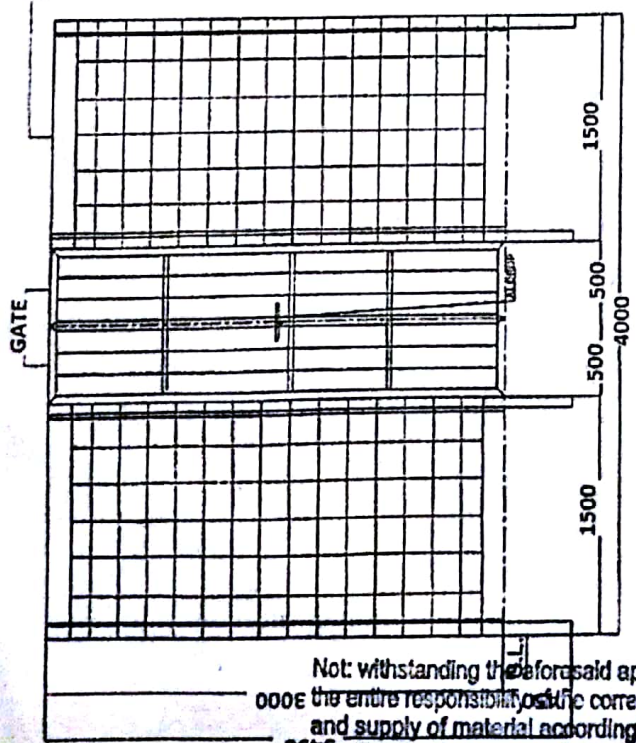


Correspondence: Material Management Unit, DVVNL, AGRA
South City Apartments, 1st Flr, 195, A.C. Street Road, Kolkata - 700009, Behind South City Mall. M: 9748708809 | 9831031917

Works & Regd. Offices:
Village Ramdevpur, P.O. Bawal, P.S. Birnagar, 24 Pgs. (SI), Pin - 743384, West Bengal. Tel: -91 33 2495 4231, Fax: 2495 4223
Mobile: 9831031917, 0748708809, Email: manishbajoria203@hotmail.com, www.arcinsulations.com



SIDE VIEW



ELEVATION

* marking for Dargah Symbol and Pad of DVVNL/IPDS shall be done on a Plaft and fix it on the front side of the Fencing



Notwithstanding the aforesaid approval the entire responsibility for the correctness and supply of material according to the specification shall be that of the contractor

APPROVED
 E.E. Material Management Unit, DVVNL, AGRA
 S.E.

FOR ETAH & KASGANJ IPDS	
PROJECT:-	Urban Electrification Works in the selected towns in district(s) ETAH & KASGANJ (Kanshiram Nagar) in DVVNL under IPDS Scheme.
CUSTOMER:-	DVVNL, Agra
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LOI NO.:-	7774/S.E (MM)/DVVNL-MM/1550-2015 (IPDS), Dated-24-06-2016.
MANUFACTURER:-	ARC INSULATION & INSULATORS PVT. LTD.

ARC

ARC INSULATION & INSULATORS PVT. LTD.
 VILL - RAMDEVPUR, P.O. - BAWALI, DISTRICT - 24 PARGANA (SI. PH. - 71334)
 DATE: 09.06.2018 | REV: 0 | DRG. NO.: ARC/18-19/FENCING/0026 | SHEET : 1 OF 1
 DRAWN BY: SUBHADIP | CHECKED BY: ANUP | APPROVED BY: MANISH
 TITLE - FRP FENCING