SHREERADHE INDUSTRIES
Power through Polymer

Shree Radhe Industries
Plot No. 86, GIDC Alindra, Savli
Vadodara-391775, Gujarat, India
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1/89

Customer- BSPTCL - NIT-15

Project- Notification of Award for Construction of 132 KV D/C Murliganj-Udakishanganj Transmission Line with Panther Conductor (line length approx. 50 RKM)& Construction of LILO of one circuit of 132 KV D/C Ramnagar-Dhanaha Transmission Line with ACSR Panther Conductor (Line length -40 RKM) at GSS Bagha & Construction of LILO of both circuit of 132KV GIS Goradih-GSS sabour Transmission line(RL-25X2=50 km) at GSS Barari.
NOA No.:19/Trans/Misc/P-I/127/2021 Dated: 16/08/2021

GUARANTEED TECHNICAL PARTICULARS OF 132KV 70KN POLYMER INSULATORS

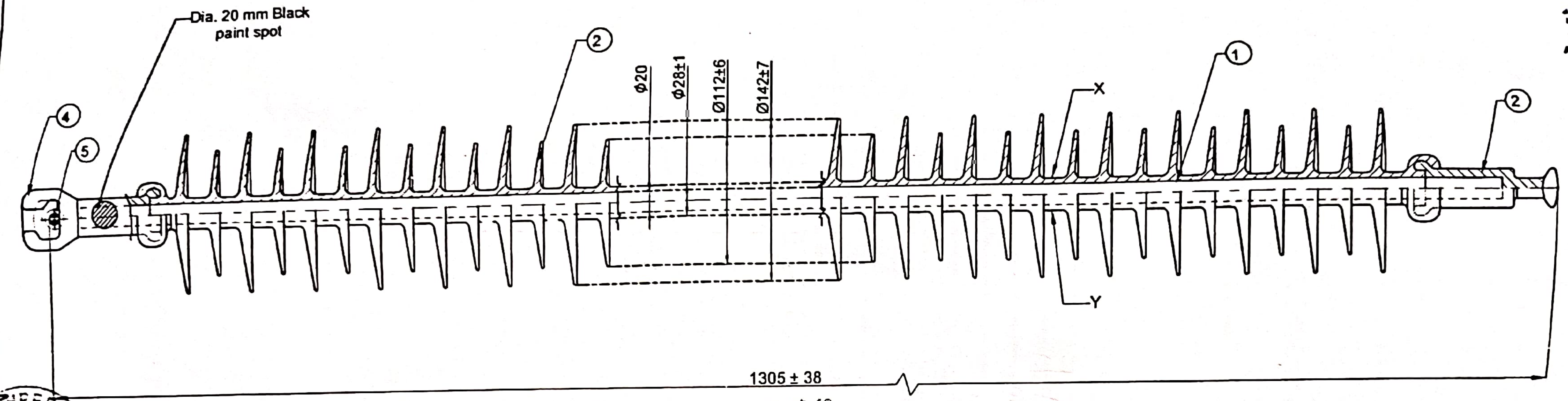
Name & Address of Manufacturer : SHREE RADHE INDUSTRIES
Plot No. 86, GIDC Alindra, Savli
Vadodara-391775, Gujarat.

Sr. No.	Description	Units	
A	GENERAL		132KV 70KN-SUSPENSION
1	Voltage level	KV	132
2	Type		B & S
3	Shed Profile		Aerodynamic
4	Shed Type		Alternating
5	Shed Diameter (Big/Small)	mm	142±7/112±6
6	Min. Thickness of Sheath Covering over Core	mm	3
7	Colour		Grey
8	Surface		Smooth
9	Core Diameter	mm	20
10	Type of Locking device & its Material		R-Clip of SS
11	Size & Designation of Ball & Socket	mm	16
12	Ball & Socket Diameter	mm	16
13	Sectional Length	mm	1305 ± 38
14	Weight of Insulator	KG	6.3 approx.
15	Guaranteed Mechanical Failing Load	KN	70
16	Routine Mechanical Load	KN	35
B	MATERIAL		
	(a) FRP Rod		ECR Boron Free
	(b) Weather Shed with % contents of Silicon	Min.	Silicon content 30% by
	(c) Housing		Silicone Rubber
	(d) End Fittings	B & S	Forged Steel HDG
C	ELECTRICAL		
1	Minimum Creepage Distance	mm	4495
2	Dry Arc Distance	mm	1200
3	Power Frequency Withstand Voltage on Insulator		
	(a) Dry	KV(rms)	275
	(b) Wet	KV(rms)	275
5	Lighting Impulse Withstand Voltage on Insulator		
	(a) Positive	KV(Peak)	650
	(b) Negative	KV(Peak)	650
7	Applicable Standard		IEC 61109-2008

Adopted for NIT No - 10/PR/BSPTCL/2023.

APPROVED
Subject to the condition that you are not absolved of the responsibility for ... of the materials supplied as per ...
Executive Engineer
Electrical Superintending Engineering
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021
14 JAN 2022

SHREE RADHE INDUSTRIES VADODARA



Customer	- BSPTCL - NIT-15
Project	- Notification of Award for Construction of 132 KV D/C Murliganj-Udakishan ganj Transmission Line with Panther Conductor (line length approx. 50 RKM)& Construction of LILO of one circuit of 132 KV D/C Ramnagar-Dhanaha Transmission Line with ACSR Panther Conductor (Line length -40 RKM) at GSS Bagha & Construction of LILO of both circuit of 132KV GIS Goradih-GSS sabour Transmission line(RL-25X2=50 km) at GSS Baran
NOA No.	19/Trans/Misc/P-I/127/2021 Dated: 16/08/2021

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Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

14 JAN 2022

Adopted for NIT No.- 10/PR/BSPTCL/2023

TECHNICAL PARTICULARS
Compliance to IEC 61109 Ed.2.0 & IEC 62217

1.DIMENSIONS		
Sectional Length(SL)	mm	1305±38
Creepage Distance Minimum	mm	4495
Dry Arcing Distance	mm	1200
2.MECHANICAL CHARACTERISTICS		
Specified Mechanical Load	KN	70
Routine Mechanical Load	KN	35
Coupling Designation (IEC 60120,IS:2486)	mm	16 Alt B
3.ELECTRICAL CHARACTERISTICS		
Nominal System voltage	KV	132
Highest System voltage	KV	145
Wet power frequency withstand voltage	KV(rms)	275
Dry lightning impulse withstand voltage	KV(Peak)	650

NOTES :
1. All the perameters charactarising the Insulator profile as per IEC - 60815
2. Tolerances as per the IEC : 61109
   ± (0.04 x d + 1.5) When d ≤ 300 mm
   ± (0.025 x d + 6) When d > 300 mm
3. Reference standard :- IEC -61109

MARKING TO BE EMBOSSED AT "X"	MARKING AT "Y"
[logo]	MONTH & YEAR

SR NO.	DESCRIPTION	SPECIFICATION	MATERIAL	DETAILS
5	Security Clip-R Clip	IEC:60120 / IS:2486	Stainless Steel	
4	Socket End Fitting		Casting/Forging	Hot dip galvanized
3	Ball Fitting		Forging	Hot dip galvanized
2	Rubber Housing & Weather shed		Silicone Rubber	
1	FRP Rod	Grade:ECR-GR/Boron Free	Resin Bonded Fibre Glass Rod	

TITLE : 132KV-70KN-SUSPENSION SILICONE RUBBER COMPOSITE INSULATORS	SCALE NTS.	UNIT mm.	PROJECTION
REF :-Customer- BSPTCL - NIT-15	ALL DIMENSIONS ARE IN mm.		
	DRAWN BY	GNP	23.09.2021
	CHECKED BY	AJ	23.09.2021
	APPROVED BY	VSL	23.09.2021
SHREE RADHE INDUSTRIES Power Through Polymer	Drg. No. 666100		Rev. No. 03

SHREERADHE INDUSTRIES

Power through Polymer

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Customer- BSPTCL - NIT-15

Project- Notification of Award for Construction of 132 KV D/C Murliganj-Udakishanganj Transmission Line with Panther Conductor (line length approx. 50 RKM)& Construction of LILO of one circuit of 132 KV D/C Ramnagar-Dhanaha Transmission Line with ACSR Panther Conductor (Line length -40 RKM) at GSS Bagha & Construction of LILO of both circuit of 132KV GIS Goradih-GSS sabour Transmission line(RL-25X2=50 km) at GSS Barari.

NOA No.:19/Trans/Misc/P-I/127/2021 Dated: 16/08/2021

GUARANTEED TECHNICAL PARTICULARS OF 132KV 90KN POLYMER INSULATORS

Name & Address of Manufacturer: SHREE RADHE INDUSTRIES
Plot No. 86, GIDC Alindra, Savli
Vadodara-391775, Gujarat.

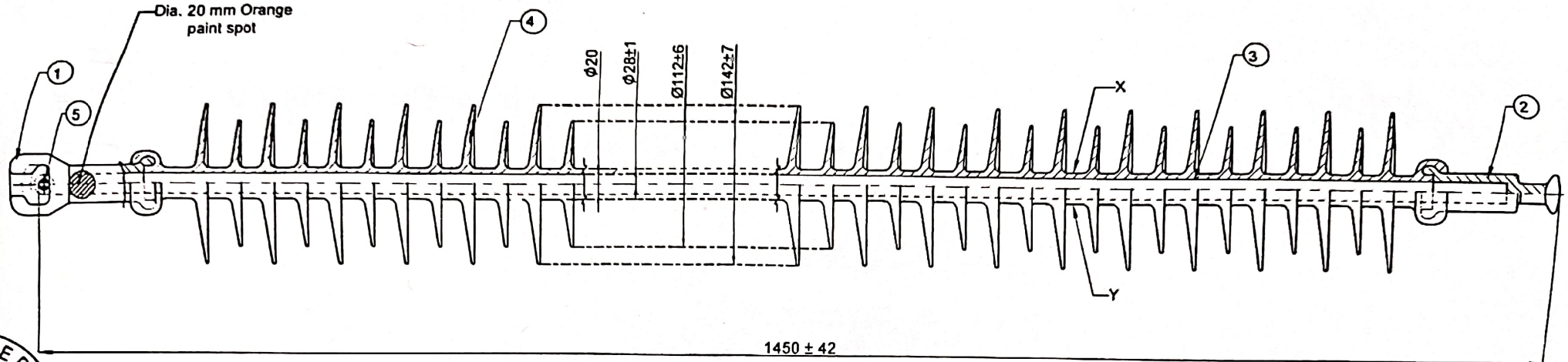
Sr. No.	Description	Units	
A	**GENERAL**		**132KV 90KN TENSION**
1	Voltage level	KV	132
2	Type		B & S
3	Shed Profile		Aerodynamic
4	Shed Type		Alternating
5	Shed Diameter (Big/Small)		142±7/112±6
6	Min. Thickness of Sheath Covering over Core	mm	3
7	Colour		Grey
8	Surface		Smooth
9	Core Diameter	mm	20
10	Type of Locking device & its Material		R-Clip of SS
11	Size & Designation of Ball & Socket	mm	16
12	Ball & Socket Diameter	mm	16
13	Sectional Length	mm	1450 ± 42
14	Weight of Insulator	KG	6.6 kgs
15	Guaranteed Mechanical Failing Load	KN	90
16	Routine Mechanical Load	KN	45
B	**MATERIAL**		
	(a) FRP Rod		ECR Boron Free
	(b) Weather Shed with % contents of Silicon	Min.	Silicon content 30% by weight
	(c) Housing		Silicone Rubber
	(d) End Fittings	B & S	Forged Steel HDG
C	**ELECTRICAL**		
1	Minimum Creepage Distance	mm	4495
2	Dry Arc Distance	mm	1200
3	Power Frequency Withstand Voltage on Insulator		
	(a) Dry	KV(rms)	275
	(b) Wet	KV(rms)	275
5	Lighting Impulse Withstand Voltage on Insulator		
	(a) Positive	KV(Peak)	650
	(b) Negative	KV(Peak)	650
7	Applicable Standard		IEC 61109-2008

APPROVED
Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per ...

Adopted for NIT No - 10/PR/BSPTCL/2023

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

SHREE RADHE INDUSTRIES VADODARA



Customer	- BSPTCL - NIT-15
Project	- Notification of Award for Construction of 132 KV D/C Murliganj-Udakishan ganj Transmission Line with Panther Conductor (line length approx. 50 RKM)& Construction of ULO of one circuit of 132 KV D/C Ramnagar-Dhanaha Transmission Line with ACSR Panther Conductor (Line length -40 RKM) at GSS Bagha & Construction of ULO of both circuit of 132KV GIS Goradih-GSS sabour Transmission line(RL-25X2=50 km) at GSS Baran
NOA No.	19/Trans/Misc/P-I/127/2021 Dated. 16/08/2021

TECHNICAL PARTICULARS
Compliance to IEC 61109 Ed.2.0 & IEC 62217

1.DIMENSIONS		
Sectional Length(SL)	mm	1450±42
Creepage Distance Minimum	mm	4495
Dry Arcing Distance	mm	1200
2.MECHANICAL CHARACTERISTICS		
Specified Mechanical Load	KN	90
Routine Mechanical Load	KN	45
Coupling Designation (IEC 60120,IS:2486)	mm	16 Alt B
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Nominal System voltage	KV	132
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NOTES :
1. All the perameters charactarising the insulator profile as per IEC - 60815
2. Tolerances as per the IEC : 61109
   ± (0.04 x d ÷ 1.5) When d ≤ 300 mm
   ± (0.025 x d ÷ 6) When d > 300 mm
3. Reference standard :- IEC -61109

MARKING TO BE EMBOSSED AT "X"	MARKING AT "Y"
	MONTH & YEAR

SR NO.	DESCRIPTION	SPECIFICATION	MATERIAL	DETAILS
5	Security Clip-R Clip	IEC:60120 / IS:2486	Stainless Steel	
4	Socket End Fitting		Casting/Forging	Hot dip galvanized
3	Ball Fitting		Forging	Hot dip galvanized
2	Rubber Housing & Weather shed		Silicone Rubber	
1	FRP Rod	Grade:ECR-GR/Boron Free	Resin Bonded Fibre Glass Rod	

TITLE : 132KV-90KN -TENSION SILICONE RUBBER COMPOSITE INSULATORS

REF :-Customer- BSPTCL - NIT-15

SCALE	NTS.	UNIT mm.
ALL DIMENSIONS ARE IN mm.		PROJECTION
DRAWN BY	GNP	23.08.2021
CHECKED BY	AJ	23.08.2021
APPROVED BY	VSL	23.08.2021

SHREE RADHE INDUSTRIES
Power Through Polymer

Drg. No. 666156

Rev. No. 0

SHREE RADHE INDUSTRIES

APPROVED
Subject to the condition that this does not absolve the responsibility for correctness of the material supplied as per ...
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021
14 JAN 2022

Adopted for NIT No - 101 pkl/BSPTCL/2021.