# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

( सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार )

### NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport and Highways, Govt. of India)

### क्षेत्रीय कार्यालय / REGIONAL OFFICE

ई-2/167, अरेरा कॉलोनी, हबीबगंज रेल्वे स्टेशन के पास, भोपाल ( म.प्र. ) 462016 E-2/167, Arera Colony, Near Habibganj Railway Station, Bhopal (M.P.) 462016

दूरभाष/Phone: 0755-2426638, फैक्स /Fax: 0755-2426698, ई-मेल/E-mail: robhopal@nhai.org

NHAI/RO-MP/CHHP/132KV/2021/42270

Date: 26.02.2021

BHARATMALA

### Invitation of Public Comments

Sub: Proposal for NOC for the overhead crossing of Jhansi-Khajuraho NH-39 by LiLO of 132 KV RTS-Niwari near at Village-Devendrapura Distt.-Niwari.

Ref: PD, PIU-Chhatarpur letter no. no. CHHP/26010/11/Jha-Khaju/132KV RTS-Niwari Line km 26+450/2021/5832 dated 09.02.2021

The Project Director, PIU-Chhatarpur NHAI vide their letter dated 09.02.2021 has submitted the Proposal for NOC for the overhead crossing of Jhansi-Khajuraho NH-39 by LiLO of 132 KV RTS-Niwari near at Village-Devendrapura Distt.-Niwari.

- 2. As per Ministry vide OM No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the Highways Administrator will make available the proposal seeking permission for utility laying for public comments for **30** days on ground of public interest.
- 3. In view of the above the comments of public are invited on captioned proposal (copy of application is enclosed) and the same should reach to below mentioned address till **28.03.2021** beyond which no comments will be considered.

The Highway Administrator
O/o Regional Officer,
National Highways Authority of India
E-2/167, Arera Colony,
Near Habibganj Railway Station,
Bhopal (MP)-462016
E-mail ID:robhopal@nhai.org

This issues with the approval of Highways Administrator Cum Regional Officer, NHAI, Bhopal (MP).

(Anand Prasad)

Manager (T)

#### Copy to:

(i) Web-Admin, nhai.org@gmail.com, NHAI-HQ for uploading on NHAI website.

(ii) The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.

(iii) The Project Director, PIU-Chhatarpur (MP) for information please.

(iv) The MP Power Transmission Company Ltd. for information & furnishing the vetted drawing of overhead crossing on plan & profile of NHAI with clear cut indicating the line at the end of 60m ROW.

प्रधान कार्यालय : जी 5 एवं 6, सेक्टर 10 द्वारका, नई दिल्ली-110075 दूरभाष : 91-11-2507 4100/2507 4200 वेबसाइट : http://www.nhai.org

Annexure-A(a)

Sr.No.	Particulars					
1	Details of User Agency	Description				
1.1	Name of Company Asking for Permission	M.P. Power Transmission co. Ltd.				
1.2	Full address	O/o Executive Engineer EHT-C Dn. MPPTCL Sagar Narsinghpur Road Makronia Sagar				
1.3	Telephone No. & Fax	9425806897/7987624790 Email Id:- ehtbina@gmail.com				
	Details and purpose for Erecting Tower	Construction of LILO of 132 RTS-Niwari Line at 132 Kv Sul Station Niwari				
1.5	Any other details regading overhead line					
(a)	Situation of crossing	Between Loc.No. AP/8 to AP/9				
22.11	Distance of proposed structure from center of the Road	From AP/8 = 82 Mtr. From AP/9 = 102 Mtr.				
_	Span at the crossing	Crossing Span = 184 Mtr.				
(d)	Angle of crossing	85°00'00"				
(e)	Structure used to cross the existing NH its devation Anlge	AP/8 (E-60+10) = 31°52"34" RT AP/9 (E-60+10) = 15°08"56" LT				
2	Details regarding road aligment					
2.1	Name of Road	NH-39 Jhansi-Khajuraho Road (Under Construction)				
2.2	Category of Road	NH-39				
2.3	Width of the Road	60 Mtr.				
2.4	Black topped carriage way width	Under Construction				
2.5	Road bounday from center of Road	One Side = 30 Mtr. Other Side = 30 Mtr.				
2.6	All these detail are to be shown on the Drawing	Yes				
2.7	location of LILO of 132 RTS-Niwari Line at 132 Kv Sub- Station Niwari	Between Loc.No. AP/8 to AP/ 9 (B/w Milestone)				
3	Details to be supplied on layout drawing (6copies)	Deawing in 6 copies attached				
4	Ground clearence under maximum sag condition between lowest conductore of proposed line and existing National Highway	17.2 Mtr. Against the Stipulation 10.85 Mtr. ( From top of Bottam Surface of NH)				
5	Conductor used to cross the National Highway with complete Technical details of conductor	1) Name : ACSR Panther 2) Diameter : 21.00mm 3) Cross- sectional area : 251.5mm 4) Weight of conductor : 974kg/km 5) Modulas of Elasticity : 815Skg/mm² 6) Ultimate Tensile strength : 89.67kn 7) Co-efficient of linear expension : 17.80x10 <sup>-6</sup> /°C				
6	Certification					
6.1	This is to certify that no. Govt. Road shall be occupied by Bhopal dhule Transmission Company Ltd. Except for the purpose of Electric line across or along the road.	Confirmed				
	This is to certify that the work shall be done in accordance with Govt. Rules and regulations.	Confirmed				
6.3	This is to certify that all required cost and fees as per Rules and regulation of the Govt. will be deposited timely	Confirmed				

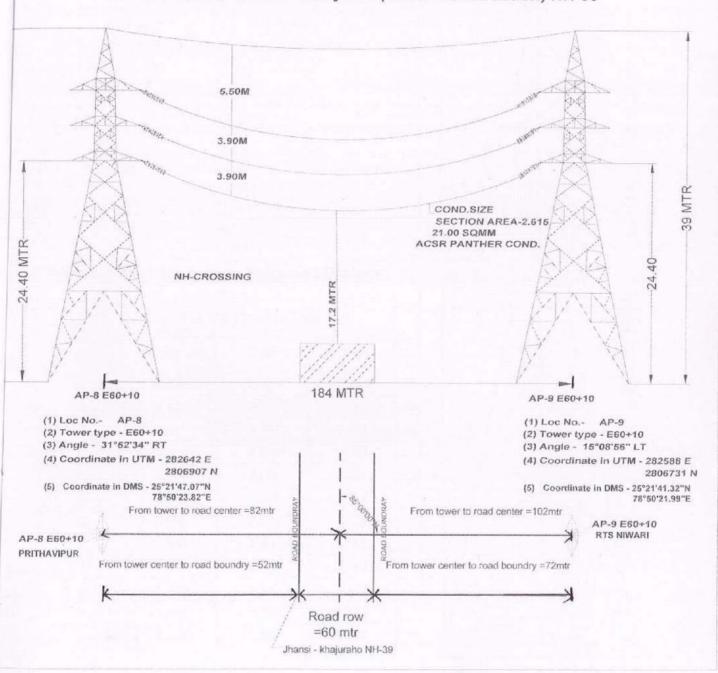
Annexure -B(b)

Information to be furnished alongwith the proposal for construction of LILO of 132 Kv RTS-Niwari line at 132 Kv Sub-Station Niwari Across the National Highway-39 between Km 23.99 to 27.84 & Between Location No. AP/8 to AP/9

Sr. No.	Particulare	Description				
1	Exact location of crossing with chain age of national highway and Right of way of NHAI at crossing point	National Highway 39 between Km 23.990 to 27.840 & Between Location No. AP/8 to AP/9 at Span 184 Meter				
2	Methodology of crossing in NH.	Stringing of Overhead conductor by T & E				
3	Crossing details : plan & cross section	Attached				
4	Route index plan along the showing following					
	(a) Existing ROW of NHAI/NH land	Attached				
5	Undertaking that you shall take care of existing services lines that have been laid previously	Yes Attached				

Executive Engineer
EHT-Chocumpe For Sagar
(EHT-C)
(EHT-C)
(EHT-C)

### Work:- Lilo of 132kv RTS- Niwari Line at 132kv S/S Niwari Name of Road:- Jhansi - Khajraho (under Construction) NH-39



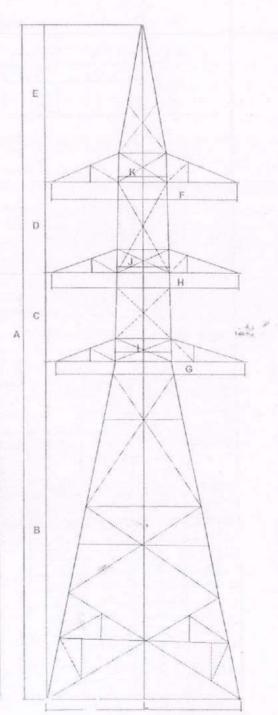
Procutive Engineer (EHT-C)

1,

# 132 KV TOWER TYPE -E

## Transmission Line Towers Optimised Designe

DEC	132 KV Double Circuit						
REF.	E0	E30	E60				
Α	28.882	28.631	29.394				
В	16.089	14.667	14.705				
С	4.041	3.902	3.900				
D	3.981	3.902	3.900				
Е	4.771	6.158	6.800				
F	7.310	7.230	8.055				
G	7.510	7.230	8.055				
Н	7.990	7.490	8.112				
1	1.670	2.070	2.460				
J	1.470	1,910	2.229				
K	1.261	1.752	2.143				
L	6.245	7.687	8.487				





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COST CONTRACTOR	A BROOK	Arcon Powert	rans F	vt L	td			CONTRAC	31 110.	
TOW	ER S	POTTING DATA FOR 132 KV I	DIC TRA	NSMIS		LINE PRO	JECTS	C09	45	
lana u	FOT	Contract of the Contract of th		EP. BY	CHKI	DBY	DATE	DRAWIN	IG NO.	
PROJ	EGI	132 KV D/C Transmission Lines	-		5.61	216	Feb-14			
		2	-	INITA .	MI	111	11.00.11	C0945/TS/13	32/D-cal-01	
CLIEN	T	Madhya Pradesh Power Trans.	.1							
0.00		Co. Op. Ltd, Jabalpur	2	-						
T	OWE	R SPOTTING DATA								
В	asic V	Vind Speed (in M/Sec) 47								
R	ellabil	Ity Level (50 yr return period) 1			790					
	*	Category 2								
	en cami	wind Pressure Pd (in N/m²) 701								
		24. 2	02(all part/s	ections)	- 1995					
D	lesign	Code Referance IS 8	orian paros	ocaronay.						
	1									
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7	Type o	of Conductor ACS	SR Panther	(30/3.00	hal + 7/	3.00st)				
1	1		SW-GW8						140	
3	ype c	of Ground water					1.00		Yeary	
4								Tower E60		
5	SI	Description	To	ver E0		Tower	E30	LONG	M-14-97	
	No.	0.			-			0° - 60° & Dead End		
1 1		-0 -0 0° -30°		DV - GOT K-I	Dead End					
		aximum Angle of Deviation		- 2"	-					
		aximum Angle of Deviation		350		35	0	350	0	
8		aximum Angle of Deviation ormal Span. (m)	Max	350	No.			Max 360	Min	
8			Max	350 M	in .	35	0	350	Min	
8	2 N	ormal Span (m)		350 M		Max 35	Min	Max 360	Min	
8	2 N	ormal Span. (m)	Max	350 M d Down		Max 35	Min	Max 360	Min	
8 9	2 N	ormal Span (m)	Max Downwar	350 M d Down	nward	Max Devmward	Min Upward	Max 360	Min	
8 9	2 N	ormal Span. (m)	Max Downwai	350 M d Down	nward 0	Max Dovmward	Min Upward	Max Downward	Min Upward	
8 0 7 2 3	2 N	fortical load Limitation on weight pan for both (GW &/Conductor)  On both Span (m)	Max Downwar 525 315	350 M d Down	o 0	35 Max Downward 525 315	Min Upward 0	350 Max Downward 525 315	Min Upward -150	
8 9 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 N	ormal Span (m)  fortical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)	Max Downwai	d Down	o o o o (m)	Max Downward  525 315 Dev Angle	Min Upward  0 0 Span (m)	Max Downward  525 316 Dev Angle	Min Upward -150	
6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 V SI NI	ormal Span (m)  Pertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)	Max Downwar 525 315	M Down	o 0	Max Downward  525 315 Dev Angle 30	Min Upward 0 0 Span (m)	Max Downwaru  525 315 Dev Angle 60	Min Upward -150 -150 Span (n	
6 9 9 0 1 1 2 1 3 1 3 1 4 4 1 2 5 1 2 6 1 3 1	3 V SI NI	ormal Span (m)  Pertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	Max Downward  525 316 Dev Angle 30 28	0 Min Upward 0 0 Span (m) 700 752	Max Downwan  525 315 Dev Angle 60 59	-150 -150 Spen (n	
8 9 9 0 0 1 1 2 2 3 3 3 4 4 4 5 5 2 6 5 2 7	3 V S S S S S S S S S S S S S S S S S S	ormal Span. (m)  Pertical load Limitation on weight pan for both (GW & Conductor)  On both Span. (m)  On one span. (m)  Permissible sum of Adjacent spans. (in m) subject to availability of Minimum.	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 29 28	0 Min Upward 0 0 Span (m) 700 752 804	525 315 Dev Angle 60 58	Min_Upward -150 -150 Spen (n 700 747	
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 V SI III	rertical load Limitation on weight pan for both (GW & Conductor) On both Span (m) On one span (m) Permissible sum of Adjacent spans in m) subject to availability of Minimum	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 316 Dev Angle 30 29 28 27	0	525 315 Dev Angle 60 58 57	Min_Upward -150 -150 Spen (n 700 747 794 841	
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 N	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified five metal clearance	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward  525 316 Dev Angle 30 29 28 27 26	0 Min Upward 0 0 0 Span (m) 700 752 804 857 999	525 315 Dev Angle 60 58 57 56	Min_Upward -150 -150 Spen (n 700 747 794 841 888	
8	2 N si	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified five metal clearance Permissible one span for various deviation angle shall not exceed 50%	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 316 Dev Angle 30 29 28 27	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 962	356 Max Downward 525 315 Dev Angle 60 59 58 57 58	Min_Upward -150 -150 -150 Spen (n 700 747 794 841 888 -936	
8	3 V S S S S S S S S S S S S S S S S S S	Permissible sum of Adjacent spans in m) subject to availability of Minimum specified five metal clearance permissible one span for various deviation angle shall not exceed 50% the value shown for sum of	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward  525 316 Dev Angle 30 29 28 27 26	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 962 1014	356 Max Downward  525 315 Dev Angle 60 59 58 57 66 55 54	Min Upward -150 -150 Span (n 700 747 794 841 888 936	
8	2 N	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified five metal clearance Permissible one span for various deviation angle shall not exceed 50%	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Devriward 525 315 Dev Angle 30 29 28 27 28	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 962 1014 1067	356 Max Downward  525 316 Dev Angle 60 59 58 57 66 55 54 53	Min Upward -150 -150 Span (n 700 747 794 841 888 -936 984 1033	
8	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 29 28 27 20 25	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 962 1014	525 316 Dev Angle 60 58 57 66 58 57 56 54 53 52	150 Min Upward -150 -150 Span (n 700 747 794 841 888 935 984 1033 1080	
8	2 N S S S S S S S S S S S S S S S S S S	Permissible sum of Adjacent spans in m) subject to availability of Minimum specified five metal clearance permissible one span for various deviation angle shall not exceed 50% the value shown for sum of	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 29 28 27 29 28 27 29	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 962 1014 1067	350 Max Downwan  525 315 Dev Angle 60 59 58 57 58 55 54 53 52 51	-150 -150 -150 Spen (0 700 747 794 841 888 -936 984 1033 1080	
8	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 29 28 27 26 24 23 22	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 962 1014 1067 1120	525 316 Dev Angle 60 58 57 66 58 57 56 54 53 52	-150 -150 -150 Span (7 700 747 794 841 888 -936 1033 1080	
8	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Mex Downward	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 962 1014 1067 1120 1173	350 Max Downwan  525 315 Dev Angle 60 59 58 57 58 55 54 53 52 51	-150 -150 -150 Span (n 700 747 794 841 888 -936 1032 1124 1174	
8	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 28 27 28 27 28 24 23 22 21 20	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1962 1014 1067 1120 1173 1226	350 Max Downwan  525 315 Dev Angle 60 59 58 57 66 55 54 53 52 51 50	-150 -150 -150 Span (n 700 747 794 841 888 -936 1032 1124 1174	
27 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Devniward  525 316 Dev Angle 30 29 28 27 28 26 24 23 22 21 20 19 18	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 1120 1173 1226 1279 1332	350 Max Downwan  525 315 Dev Angle 60 59 58 57 56 55 54 53 52 51 50 49	Min Upward -150 -150 Span (n 700 747 794 841 888 936	
8	2 N S S S S S S S S S S S S S S S S S S	rertical load Limitation on weight pan for both (GW & Conductor)  On both Span (m)  On one span (m)  Permissible sum of Adjacent spans in m) subject to availability of Minimum specified live metal clearance Permissible one span for various deviation angle shall not exceed 50% the value shown for sum of adjlacent span	Max Downwar 525 315 Dev Ang	M Down	o o o o (m)	35 Max Downward 525 315 Dev Angle 30 28 27 28 27 28 24 23 22 21 20	0 Min Upward 0 0 0 Span (m) 700 752 804 857 909 1 1120 1173 1226 1279 1332	356 Max Downward  525 315 Dev Angle 60 59 58 57 58 55 54 53 52 51 50 49 48	Min Upward  -150 -150 Span (n 700 747 794 841 888 -936 984 1033 1080 1120 1171 1222 1271	

MPPTCL, Sagar (M.P.)

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3 of 7

	CONTRACT NO.						
TC	OWER	Arcon Powe  SPOTTING DATA FOR 132 KV CONDUCTOR	D/C	TRANSMIS		PROJECTS	C0945
PR	OJECT	132 KV D/C Transmission Lines	REV.	PREP. BY	CHKD BY	DATE	DRAWING NO.
			0	VINITA	MKK	5-Feb-14	
CLI	CLIENT	Madhya Pradesh Power Trans.	1				C0945/T9/132/Dcal-01
		Co. Op. Ltd, Jabalpur	- 0				1 100

#### General Details

- 1) All spans are in meter
- 2) All loads are in kgs

3)		Town	er E30	Towe	er E60	Tower E60	
	Mormal Span	350		350		350	
	Wind Span	-NC	BWC	NC	BWC	NC	BWC
		350	210	350	210	350	210

4) Tower are classified as given below as per specification:

Type of tower	Deviation angla	Typical use		
Type of tower	(in degree)	Typicat use		
	,	To be used as suspension tower		
Tower E0	0 - 2	with Single/Double suspension		
TOWER ED		Insulator strings.		
		To be used as angle tower		
Tower E30	0 - 30	with Single/Double tension		
		Insulator strings,		
- 10 F 107		To be used as angle tower		
Tower E60	0 - 60	and also as dead end tower.		
	- 00	with Single/Double tension		
		Insulator strings.		

Precutive Engineer
(EHT-C)
MPTCL, Sagar (M.P.)

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## **ACSR Panther Conductor Technical Specification Madhya Pradesh Power Transmission Compant Limited**

Name of Line :- LILO of 132 Kv RTS-Niwari Line at 132 Kv Sub-Station Niwari under M.P. Power Transmission Company Limited Sagar

	Basic Span				
Sr.No.	Particulars	Descr	ription		
1	Characteristic of Wire	Conductor	Ground Wire		
2	Name	ACSR Panther	Earth wire		
3	Strands in Aluminum in No.	30/3 mm.			
4	Strands in Steel in No.		7/3 mm.		
5	Diameter in mm.	21.00 mm.	1.23 mm.		
6	Area in mm <sup>2</sup>	261.5 mm <sup>2</sup>	0.6166 mm <sup>2</sup>		
7	Unit Weight in Kg/Km	974 Kg/Km	0.49 Kg/km		
8	Ultimate Tensile Strength in kn	89.67 Kn	6526 Kn		
9	Modulus of Elastacity in Kg/mm <sup>2</sup>	8155 Kg/mm <sup>2</sup>	1386800 Kg/mm <sup>2</sup>		
10	Coefficient of Linear Expansionper in °C	17.80 x 10 <sup>-6</sup> /°C	14 x 10 <sup>-6</sup> /°C		
11	Full Wind Pressure in Kg/m <sup>2</sup>	133.6 kg/m <sup>2</sup>	169.4		
12	Exposure Facror	1	1		

**Executive** Engineer (EHT-C)

MPPTCL, Sagar (M.P.)

### **ACSR Panther Conductor Sag**

Sr.No.	Temprature	Wind Factor	ICE Thickness (Cm.)	Wind Pressure	Tension	Sag in Meter	Factor of Seafty Available	Factor of Seafty Recorded
1	0	0	0	0	3915	11.14	4.01	
2	0	0.36	0	48	4745	-	3.31	1.43
3	32	1	0	138	7164	-	2.19	1.43
4	32	0.75	0	100	5963		2.63	
5	32	0	0	0	3455	12.63	4.55	4.55
6	85	0	0	0	2934	14.67	5.35	

Executive Engineer
EHT-C Dn. MPETCH Segar
(EHT-C)
(EHT-C)
(EHT-C)
(EHT-C)

### **Conductor OPGW Sag**

Sr.No.	Temprature	Wind Factor	ICE Thickness (Cm.)	Wind Pressure	Tension	Sag in Meter	Factor of Seafty Available	Factor of Seafty Recorded
1	0	0	0	0	1320	7.42	4.94	
2	0	0.36	0	61	1921		3.40	1.43
3	32	1	0	169	3184	-	2.05	1.43
4	32	0.75	0	127	2652		2.46	
5	32	0	0	0	1148	8.36	5.69	5.00
6	53	0	0	0	1058	8.90	6.17	

Executive Engineer
EHT-C Drive Proposition
(EHT-C)
(EHT-C)
(CONTROL SAGAR (M.P.)