

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सडक परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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



क्षेत्रीय कार्यालय/ REGIONAL OFFICE

ई-6/47, स्मृति परिसर, सांईबोर्ड के पास, अरेरा कॉलोनी, भोपाल (म.प्र.)-462016 E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (M.P.)-462016

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

NHAI/RO-MP/KNW/Bahadpur-Badgaaon/Electric Line/2023/ Date: 09.08.2023

49635 Invitation of Public Comments

Sub: 4-Laning of Boregaon Buzurg to Shahpur Section of NH-753L from Design Ch. 139+000 To 216+278 (PKG-I & II) under Bharatmala Pariyojana in the state of Madhya Pradesh on HAM mode – Approval/Permission of Transmission Line Crossing of 132KV DCSS Bahadpur-Badgaaon proposed on NH-753L - Reg.

The Project Director, PIU-Khandwa vide their note dated 02.08.2023 has recommended the proposal for permission of transmission line crossing of 132KV DCSS Bahadpur-Badgaaon proposed on NH-753L.

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 and the same should reach to below mentioned address till 08.09.2023 beyond which no comments will be considered.

The Highway Administrator O/o Regional Officer, National Highways Authority of India E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (MP)-462016 E-mail ID:robhopal@nhai.org

This issues with the approval of Regional Officer cum Highway Administration.

08 0) as Bansal) Manager (T)

Copy to:

(i) Web Admin, NHAI-HQ-with request for uploading on the NHAI website.
(ii) The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's Website.

(iii) The Project Director, NHAI, PIU-Khandwa (M.P.) for information. (iv) The General Manager, M.P. Transmission Package-I Limited, 2nd Floor, Niryat Bhawan, Rao Tularam Marg, Vasant Vihar, Opposite Army Hospital & Referral, New Delhi-110057. File No. NHAI/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Computer Receipt No : 744603/2023/KHANDWA

		Check List	
For Over	head SH 27/NH Road Crossing by 132 Ky DCSS BAH	ADURPUR -BADGAON Transmission Line.	
51.No.	Description	As Per Site.	Remark
1	State Highway No.	SH - 27	nemark
2	Crossing Name	132 KV DCSS BAHADURPUR TO BADGAON	
3	Crossing Chalnage	14-15	
4	System Of Supplay (i.e .Volatage) Frequency ,no of Phases whether	132 kV , 3 phases	
5	Position Of Tower	AP 10/1 :- N- 2351549, E-626534 AP 11 :- N- 2351456, E- 626717	
ĥ	Normal Span at ACSR PANTHER Conductor	335	
7	Maximum Sag at Normal Span	7,611	
8	Crossing Span	205.75	
9	Preceding Span with Loc.	200 of loc. AP 10 to AP 10/1	-
10	Succeeding Span with Loc.	235 of loc. AP 11 to AP 11/1	
N	Hight Of Structure Above Ground And Below	AP 10/1 - Hight above ground= 37.5 m, Below ground = 3m.	
11	Ground Separately.	AP 11 - Hight above ground=37.5m, Below ground = 3m.	
12	.0mm AL+7/3 .0mm STEEL. Clearance Over Road	15 m&16.1m	1
14	Height of Lower Lower Conductor Over Ground Level at Loc.	AP 1/1 (DD+6):- 19.7 AP 2 (DD+6):- 19.7	
ත්-	Hight/Difference of Lower Conductor from level of SH/NH at Loc. Angle of Road Crossing	0-50-100	
F	Distance From SH/NH Boundary From Centre	82°00'00'' AP 10/1 :- 56.95 m.	
(17)	Of Tower.	AP 11 :- 91.72 m.	
	Parpandicular Distance from Center of Tower	AP 10/1 := 102.11m.	
0	to Centre of Road	AP 11 -102.11m. AP 11103.57 m.	
19	Protection of Assembly Line	Earthing in Both Tower,	
20	Poundation Type		
2.1	No.Of Stay Required	NA	
22	Min factor of Saleby	124	
23	Size Of Power Countriator	Size 30/3 .0mm AL+7/3 .0mm STEEL.DI -21.00mm,Weighi-0974/kg/m	
1		Eart Wire 9.45mm, Weight=0.428/Kg/m, OPGW-12.22 mm.Dia Weight-	
24	Size of Earth Wire/OPGW	0.451/kg/m	
	Two Legs Of Tower Earthed	As per specification	
25	THE MED OF THE LETTING		
25	Plain paper Digram	Profile Enclosed	



/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Computer No. 209586)

17

M.P POWER TRANSMISSION LIMITED PACKAGE-I LIMITED

Detail of 132 KV DCSS Bahadurpur-Badgaon With ACSR Panther Conductor Transmission Line for overhead SH-27 Indore-Ichhapur Road crossing

Name of NH to be crossed by 132 KV DCSS Bahadurpur-Badgaon Transmission Line	SH-27 Indore-Ichhapur Road
Tower No.	AP-10/1-AP-11/0
Crossing Between Mile stone No.	KM Stone-14-15
Crossing Angle.	82°00'00''
Vertical Clearance between 132 Kv bottom conductor to Top surface of NH	14 Mtr.
Distance of 132 kv crossing tower AP-10/1 & 11/0 from Road	AP-10/1-102.11 Mtr & AP-11/0-103.67Mtr.
Crossing Span.	205.75Mtr



File No. NHAI/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Computer Receipt No : 744603/2023/KHANDWA

	111. at 111.					13	2kV D/C TR/	ANSMISSIC		OM BAHA		O BADGA	ON (ELEM	ENT NG.18	1)				
st.	Locution	Type	-	Angle of	Span	Section	Cumulative	Radiored			ghi Span He	t (m)	14e	ght Span Col	(m) b:				Village
No.	No.	Том		Deviation	Langth (m)		chanage (m)			iafe	Alght	Total	1645	Eight	Total	Grossing Details	Exiting	Northing	Name
:	20/1	DD +	9				7638.44	242.553	202.9	142.3	123.5	265 8	174,7	139.3	314.0		626534.4	2951549	
					205.75											2Noti, LT Line, 11kV Line, Nala, PROPOSED STATE HIGHWAY-27			MANULAN GAON
7	AP 11	DD +	9	10"47'19"LT		405.75	7865.19	239,886	220.4	82.2	125.1	257.3	68.1	131.0	197.4		625717.8	2351456	



19

M.P POWER TRANSMISSION PACKAGE-I LIMITED

SH-27 Crossing Between KM Stone-14 - 15 of INDORE-ICHHAPUR Road for Construction of 132 kV DCSS Bahadurpur To Badgaon Transmission Line Between Angle Tower No AP-10/1 (DD+9) & AP-11/0 (DD+9).

1	Name Of Transmission Line-132	KV DCSS Bahadurpur- Badgaon With ACSR Panther Conductor
1	Situation of tge EHV Transmission line crossing on SH	INDORE-ICHHAPUR SH-27, KM Stone 14 -15
2	Site plan showing location of crossing(SH boundary) in reference to SH Mileage to be supplied on quadruplicate	Enclosed
3)	Angle of crossing of Transmission line with the SH at crossing point	
4	The length of Span at the crossing and also those on either side of the crossing	Crossing Span 205.75 Mtr,From AP-10/1 to SH-Boundary- 56.95 mtr,& AP-11/0 to SH -Boundary-91.72 Mtr
5	In the event of the transmission line deviation at any of the supports of the crossing necessitating one of the structures to be a corner structure , deviation angle of such deviation the deviation of the span on either side of crossing shall be illustrated in the sketch	Angle Type Tower -Loc AP-10/1 DD+9 Angle Type Tower Loc-AP-11/0 DD+9(Enclosed Plan Drawing)



ACSR PANTHER -Diameter 21 mm, Unit Weight -974kg/m

Generated from eOffice by PARAS BANSAL, MANAGER(TECHNICAL), NHAI on 03/08/23 06:56 PM/

mentioned in the cluse 2 above

material of the conductor and wires crossing the NH/SH each wire under under phase ,netural each,guard,bearer and ground cross wire should be separately described and their disposition indicated by means of sketch.

The number size , and the

6

File No. NHAI/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Compute, Receipt No : 744603/2023/KHANDWA

7	Indicate wheter the proposed guard is to be restricted to the crossing span or it is to be continued over the adjacent span	NA
8	The deviation of the span on either side on the crossing shall be illustrated in the sketch mentioned in the cluse 2 above.	Enclosed drawing
9	System of supply (i.e voltage) frequency No.of phases .whether nutral is erthed or not	132kV ,50Hz, 3 phases,Earthwire/OPGW.
10	Height of the structure above ground and below ground separately	AP 10/1-Hight above ground= 37.5m, Below ground - 3m.AP 11/0- Hight above ground= 37.5, Below ground - 3m.
11	Height above ground level of (1) lowest conductor on insulator and (2) guard wire on brecket above ground level	Bottom Conductor From Road-14 Mtr ,G-wire not regired.
12	Height of the road level above ground level measured at the foot of the structure	Enclosed Drawing
13	Clearance of maxmimum sag condition between road level and the lowest live conductors & between road level and lowest guard wire (State if box type of guarding is provided in case on adoptions of unearthed nutural system)	From Road/SH surface -14 Mtr.
14	Ultimate tensil stress of the steel wire used for guard for earth wire in tones pe.Sq Cm	NA



zu/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Computer No. 209586)

21

15	Approxmate distance of each of the structure to the nearest SH(marked by pillers/fancing)measured along the alignment of the Transmission line.	AP 10/1-56.95 m. AP 11/0-91.72 m. Distance from SH boundry
16	Are the proposed structure is in SH boundary	NO.Both Tower are outside of SH Boundary.Privet land.
17	Are approved anticlimbing devices and warning notices provided on the structures erected	ACD and Danger plates are provided on both the Tower
18	National / State the tensile strength and dimension of the steel used for constructioin of each member of the supporting structure, it is to be noted that supporting structure must be of approved design confirming with I.S.I code of practic for use of structural steel in genaral bulding construction (IS 800 1965).	Tested Steel ,As per IS standard
19	Dimensions and type of brackets used for tre cross arms as well as for the guards wires.	NA
20	in each structure of the crossing span independently earthed by means of on earth plate.	Yes,Each structure is earthed.



File No. NHAI/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Compute Receipt No : 744603/2023/KHANDWA

21	In each structure supported by means of stage in three direction give the size of guy wires(the neglected in claculating the strength of structure)	Not required. Self supporting
22	If no guard is provided ,in the Transmission line protected by device to ensure instantaneous isolation is conduction ?	Yes. The Transmission line is protected instantaneously by high speed protection relays with carrier equipment
23	Type of insulators used	Polymer insulator 120KN
24	State the method of mainteannce to be employed to ensure ffollowing protection.	
(a)	From overhanging or decying trees which might fall on the line.	The clearance 27Mtr (ROW) Maintained as per I.E Rules.
(b)	To reduce the hazard to life and property.	Danger plates anti climbing devices provided
(c)	Supporting structure including guys, from the denger of being struck by moving road vehicle	Safe tower falling distance from Road and Ground clearance is maintained as per C.E A/I.E Rules.
25	Drawing showing details of crossing distrubance of road,ground or attchment that may be necessary.	Enclosed.



			UGHame	Name		MANUSANGA	
				Northing	2351549		2351456
				Easting	626534.4 2351549		626717.8 2351456
				Crossing Details		2Nos. LT Line, 11kV Line, Naia, PROPOSED STATE HIGHWAY-27	
	-		1 (m)	Total	314.0		137,4
	SL.CN TN3	-	Weight Span Cold (m)	Right	139.3		131.0
	IMELENI		Weig	teft	174.7		66.4
3-1 LTD.	O BADGA		(m)	Total	265.8		207.3
MP POWER TRANSMISS ON PKG-1 LTD.	DL RPUR 7	PALLOLE	Weight 3pan Hot (m)	Right	123.5		125.1
TRANSIN	OM BAHA	TOWER SCHELULE	Wei	left	142.3		82.2
VIP POWEI	ON LINE FF		Wind Span	(m)	202.9		220,4
	ANSMISSIC		Reduced Wind Span	Level (m)	242.333		239.886
	132kV D/C TRANSMISSION LINE FROM BAHADL RPUR TO BADGAON (ELEMENT NO.18)		Cumulative	Length (m) chanage (m) Level (m)	7559.44		7865.19
	1		Section	Length (m)			405.75
				(m)		205.75	
			-				

Angle of Deviation

Type of Tower

Location

SL. No. 6 +00

No.

-

TRAVE AN PATRA the the

SHONETH MINNA Marage

11"91"74"01

DD+ 9

AP 11

194

File No. NHAI/PIU-KNW/NOCregardingpermissionforinstallationofAutomatedRiverWaterlevel(AWLR)Sensor (Compute Receipt No : 744603/2023/KHANDWA



T	onur sporing data -nind roku-4 («tu/m	80)
		\$25 H
		PANTEER
Overall Mamster		\$1.40 mm
Cross Bortlan Area		281.600(Squara)
Conductor Type		0.874 kg/m
Kodubus of Electicity		0.160406 Egt/Byon
Coef of Thermal Expan	udon	1.702-66
		-5-52-67
llar. Sag Hot (86°)	P	7.611 m
linx , Beg Cobl (-8*)		8.66 m
Temp. Range		0.15
fax Tension Bot (85°)		1650.0 Kgs
fax . Tension Cold (-5	P)	2003.0 Xys
	ence Begaire+Sug Errar	6.1 m+0.15 m= 6.25 m
ley Louve Clourence (E		iM n
	rance for Ball Line Growing	16.58 m
	anno for Power Line Grossing	\$.05 m
General The Manha Manha	state for some lage severing	4 (198/880)
	N.P. FOTHE TRANSMISSION FER-1	120
PROJECT	(ELEMENT NO: 18) 182 EV D/C SS BAILADUEPUR-B	NADGATIN Transmission Line
DRAWING TITLE	plan & Tepyers claaringe univers uvvecov : section : Apio/1 - Apii	of prayosed he crosseds
		Bakaniited by
Surveyed by	Checked by	

EC)	namo as Prantraman 21.00 angena	0.875 har/m 0.1684-00 Kat/Bayan 1.7582-00	-Un-2007-000* 75,03.1. ma m.CO. ma	AD Res	5-1 m+0.43 mere 0.00 m 40.0 m 10.00 m 10.00 m	< (artrad (sessed)	AND REAL A DESCRIPTION	O Y CAR EVER	6	1		1- 200711-	¢.u	5						as as as		Generation of 11111111	CLUT L-WXDG I) Fransmission Line	205.75 m)	e			
WAY THREE CONTA-	A COURT AND A COUR	0,977 0,267 1,268	200 - 20 - 20 - 20 - 20 - 20 - 20 - 20				THE STATE OF STATES	and a second sec	XXXXX		A THE OTHER DATA PARTY AND THE OTHER DATA PARTY AND THE OTHER DATA								*	100 100 100 00 00 40 40		1 CHD ==	CLL, TI & CONTROL DECOURSESSIONS STREAM STREAM OF CONTROL CONTROL OF CONTROL	(ISLEMISNT NO: 18) (AC S.S. Bahadurpur-Badgeon Truveminsion Line	1.081	M.P. POWER DRANSMISSION PKG-1 LTD	Ruber.	Sumern Mundo	
ALCONG THE ALCONG THE	Constants agreement Constantion True Oceaning Manufacture Crosses Restriction Articen	Unde weight. Modulation of Manufactur Coor of Theseman Preparation.	Thursdo, Hanaga Mark, Hana Math (202) Mark , Base Cold (-97)	Check Microsof Marse Terminations Milest (Cher) Marse Terminations Milest (Cher)	(B.B. J. V. W. M.	MARKON WORKS	A DESCRIPTION OF A DESC	ADDRESS TO WARDER & STREET ADDRESS	and the second		S.S. NV INTER VIS. 2.2	and more range	MARY AN GROUPADY	MALE AN ORANOOP	MOR CONCE	COLD CURVE	essentito concernante	NUMBER OF BOURDER	THINK TO THE TRANSPORT	Martscartish Strates The 190	Vertical Scale Per 19 19		Cliant (200)[9.4]	Project 132 KV DAC SH	Section :	M.F. POWE	And Andres Andres	Checked by	Submitted by

Conference of the second secon

25

