MP POWER TRANSMISSION PACKAGE-II LIMITED

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Ref: MP/Pkg II/FC&WL/295 **Date:** 10/12/2022

To,
Divisional Forest Officer,
North Panna Forest Division, Panna

Sub: Diversion of 39.6495 Ha of forest land in North Panna Forest Division for construction of Ajaygarh Panna 132 kV DCSS Transmission Line. (Forest Proposal - FP/MP/Trans/151776/2022)

Ref: EDS Raised by Nodal officer vide letter no F-4/22/2022/10-11/4163 dated 07/12/2022.

Sir,

We would like to thank you and your good office for the support rendered to us till date on the above subject matter.

In reference to our forest diversion proposal of 39.6495 Ha for construction of Ajaygarh Panna 132 kV DCSS Transmission Line having proposal no FP/MP/Trans/151776/2022, the proposal was tabled at 7th REC meet held at Bhopal IRO office on dated 18/11/2022. The proposal was principally approved but few details were sought for which Nodal Officer vide letter no F-4/22/2022/10-11/4163 dated 07/12/2022 have sought the reply. The detail of EDS sought, and its compliance is as below:

Sl.No	EDS sought	Compliance report
1	The Proposed diversion area is 2.65km away from Panna Tiger Reserve, Therefore comments of CWLW shall be submitted.	We request your good office to write to CWLW for his comments on said matter.
2	Against the CA area (P-451) having approx. 24 Ha old plantation impression (Google image dated 18/11/2013), the state Forest department shall submit a fresh CA patch which is free from encroachment and previous plantations.	Requested to prepare the CA scheme for 40 Ha degraded forest land identified at P -422. Maps for the same is enclosed herewith.
3	This is a transmission line project, so the user agency shall submit bird deflector scheme.	Bird Deflector scheme is submitted herewith.

In reference to the above, we request your good office to process our forest diversion proposal at the earliest.

Looking forward for your continue support.

Thanking you

Syed Sharique Imam
Associate Manager- Projects
MP Power Transmission Package II Limited.

Encl: As stated above.

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13-12-22

BIRD DEFLECTOR SCHEME

The proposed transmission Line i.e. 132kV DCSS Ajaygarh Panna Transmission Line connecting 132 kV Existing substation at Panna to new 220/132/33 kV substation at Ajaygarh is passing through forest area of North Panna Division which is rich in biodiversity as it is adjoining to Panna Tiger Reserve. The said transmission line will have single circuit having 3 phase conductors and earthwire at the top.

Bird frequently collide with the earth wire installed at the top of transmission line installed at the top of transmission line as it is less visible and small in diameter (Fig-1). Removal of earth wire avoids bird collision but it is not a viable option since the earth wire protects the power line installation from lightning strikes. This is only possible in areas where there is low lightning.

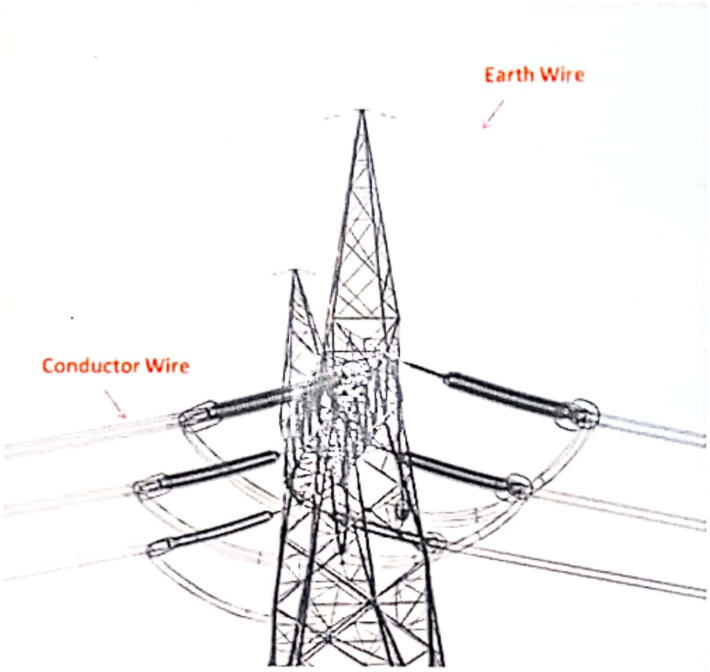

Fig -1 (a high voltage transmission line showing the conductor wire and the partially visible earth where dead birds frequently collide with)

Since earth wire cannot be removed, using line marker devices should increase earthwire visibility. Marker devices are available in several colors and are visible to birds from a long distance. Many types of marker devices are available such as the sphere, swinging plates, spiral vibration dampers, strips flight diverters, bird flappers, ribbons, tapes, flags and crossed bands. (Fig -2)

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Associate Manager-Projects
M.P. Power Transmission Package II Ltd.

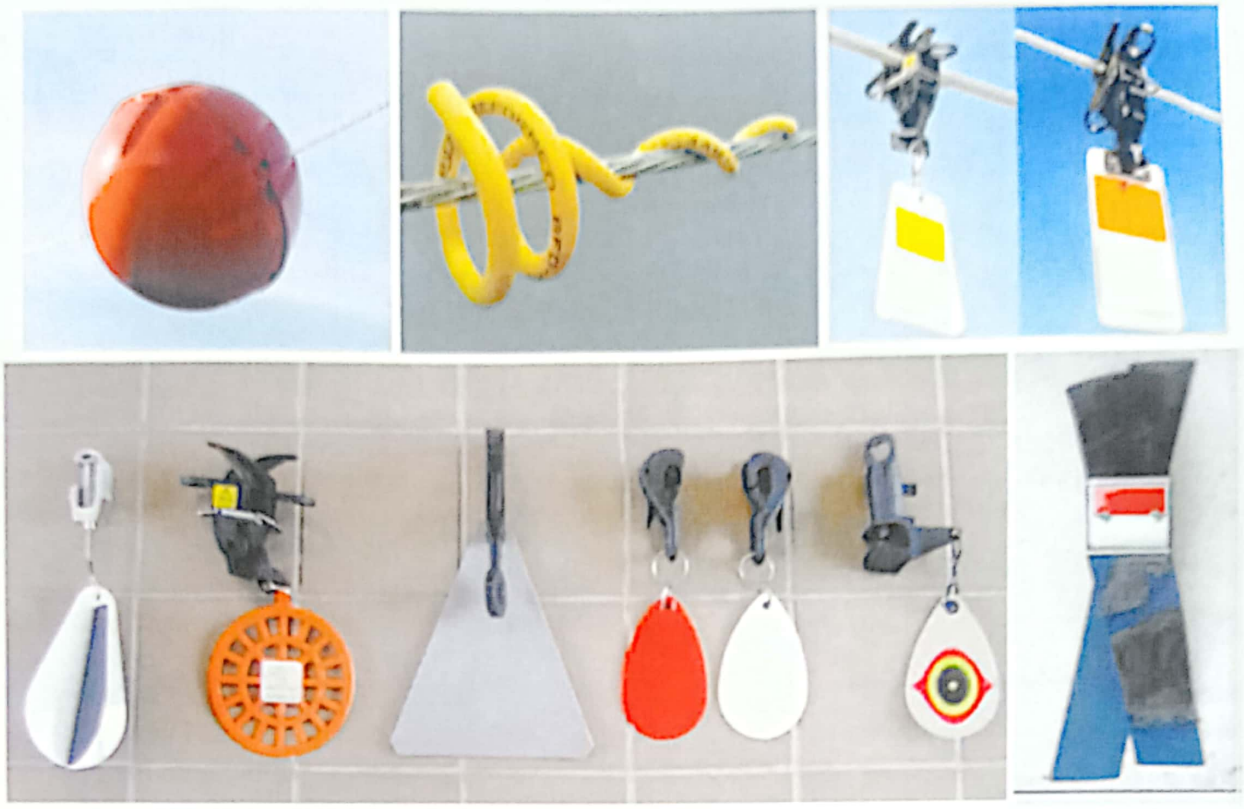

Fig -2 (Range of marker devices used on wire to improve their visibility to birds)

Line marker will be as large as possible. The spacing between them will not be more than 5 to 10 meter. Marker devices shall be chosen to contrast as much as possible with the background color and importantly shall be visible at night as most bird collisions are said to occur at night.

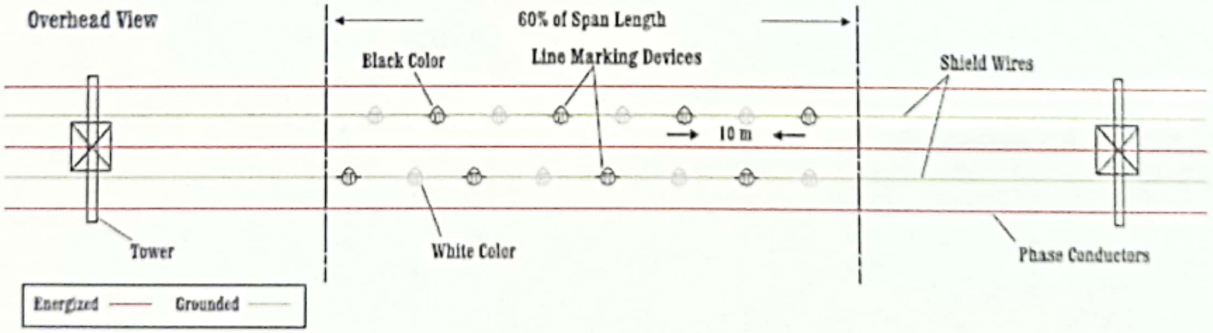

Fig – 3 (Design and configuration of markers to reduce bird collision)

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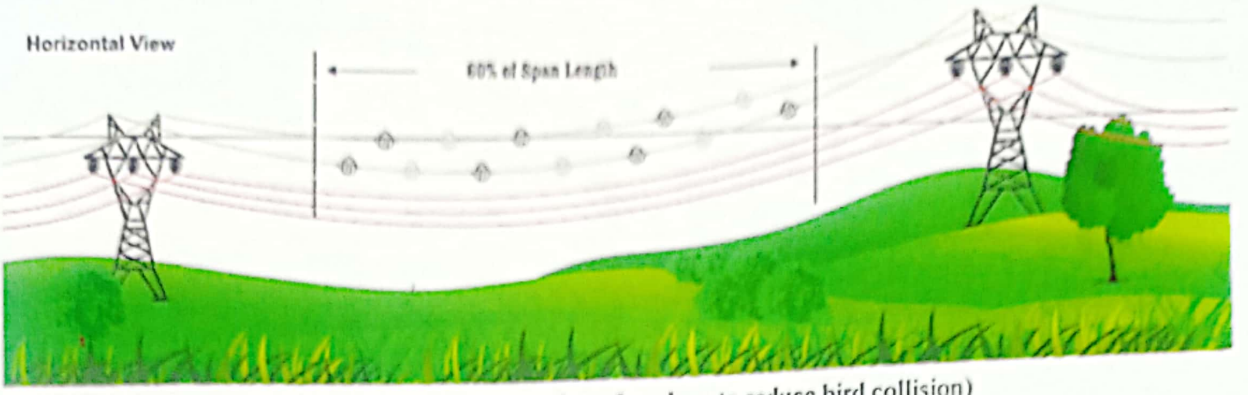

Fig – 4 (Design and configuration of markers to reduce bird collision)

Note:- All drawings and details are from Eco-Friendly measures to mitigate impact of linear infrastructure on wildlife by Wildlife Institute of India published in 2016.

Calculation of Bird Diverter to be installed: -

Forest affected area – 39.1519 Ha

Forest affected Length – 14.5 Km

Affected stretch – 20 Km

No of Earthwire – 1

Distance at which bird diverter to be installed on Earth wire – 5 mtr interval in 60% of span

No of bird diverted to be installed – 20Km x 60% / 5 = 2400 Nos.

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