



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport and Highways)

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NHAI/Policy Guidelines/Misc. Guidelines/2021

Policy No. 18.75/2021 dated 3rd November 2021

{Decision taken on E-Office File No. NHAI/IT/2021/Drone/committee (Comp.No. 89583)}

(In supersession of earlier on the subject)

Sub: Drone Video Recording of Project Highway during the development, construction and O&M period -reg.

With an objective to bring transparency, uniformity and use latest technologies, video recording using drones, of the entire ROW showing chainages, proposed ROW, median centreline, condition of road, road furniture etc. have been made mandatory. In this regard Policy Circular No.18.69 Dated 10th June, 2021 refers. On the basis of the feedback received the policy has reviewed and now in supersession of earlier circular, it has been decided to carryout video recording of each project every month since award of work till completion of construction and biannually during O&M period.

2. NHAI has already finalised specifications/ methodology for video recording and identified zone-wise agencies & rates for the same. The Field units / Contractors / Concessionaires may use these agencies so as to ensure uniformity in data collection. Recording shall have to be done in the presence of Team Leader of IE/ AE/ SC. Recording of previous videos and current running side by side shall be loaded on Data Lake for easily capturing various developments during the month (a sample screenshot is attached herewith and also loaded on Data Lake along with a sample video for guidance) before submission of their invoice. Capturing Ortho-image for approx. 10% equivalent length of critical structures or any other specific area should be decided by the ROs/ PDs and be conveyed to the Drone Agency in the site-specific work order. The IE/ AE/ SC shall ensure that the features and quality of drone video is acceptable and video is not distorted/tampered with.

3. IE/ AE/ SC shall analyse these drone videos and give their comments in its digital MPRs covering inter-alia but not limited to the encumbrances/ lands not available, sites of COS demands, progress of project, mobilisation of plant & equipment, mobilisation at camp sites, progress on rectifications of NCRs, etc. along with the proposed action plan. PD shall crosscheck drone videos during his monthly physical inspections and notify the discrepancies notice, if any, between drone video, on IE/AE/SC comments and ground reality. The discrepancies shall be examined and addressed through joint site inspections.

4. As per the policy, the Network Survey Vehicle (NSV) survey needs to be carried out twice in a year on completed project. Therefore, PDs should plan biannually drone based video recording during O&M period in such a manner so that there is no overlap and digital data of O&M period is available in regular intervals (quarterly)through NSV and drone videography.

5. In addition, PDs/ ROs can also undertake need based drone videography as and when required. PD shall ensure development of a project specific website by the Concessionaire for all project being executed under HAM as per Clause 13.6 of the agreement, where Concessionaire needs to upload Video and time stamp pictures every week regarding progress. The website must be accessible to the public. In case of default on this account, the PD shall withhold an amount equivalent to Rs. 5 Lacs plus (drone rate X length of project X no. of defaulting week) from the dues to the Concessionaire.


Contd....2/-

6. As the above drone videos/ reports will be permanent record on Data Lake and will be used as evidences during dispute resolution process before Arbitral Tribunals/ Courts including Supreme Court, the drone video shall be carried out carefully and correctly without distortions/ tampering by all parties concerned. In this regard, SoP issued by NHAI vide letter dated 11.10.2021 and 31.08.2021 is to be read with this circular.

7. The Contract Agreement on EPC mode (Refer Clause 11.16 of DCA) and the Concession Agreement on HAM & Toll modes (Refer Clause 12.4.3 and 13.6 of MCA) provide for video recording of the project highway during the construction period. As such amount spent on recording shall be charged to Contractor / Concessionaire to the extent covered in the agreement. In contract where no such provision exist and cases where provision from the Concession / Contract has been de-scoped, the amount spent on video recording shall be borne by the NHAI. Power for approval of expenses on this activity are delegated to PDs who can charge this expenditure to the work.

8. This issues with the approval of Competent Authority.

Encl.: As stated above


03/11/21
(S.K. Patel)
General Manager (Coord.)

To

All Officers of NHAI HQ/ ROs/ PIUs/ CMUs/ Site Offices

Copy to:

1. Hindi Officer for translation in Hindi
2. Library for hosting the circular on library site.
3. Web Admin for circulation.

**Sample screenshot for
recording of previous videos and current running side by side to be loaded on Data Lake**

Home / Drone Videos

Select Project: All | Select From Date: 03/11/2021 | Select To Date: 03/11/2021 | Select Month: November-2021

Filter

NOTE:
1) Above Filter is based on Duration of Drone Video Survey From Date.
2) To Filter Data, Please select From Date and To Date or Select Month.
3) Drone Video download will be based on your internet speed. In case of any issue, please RESUME the download from Download bar of Browser.

PDF Excel Show 10 entries Search

| Video Preview | # | Status | RAMS Status | Instructions to PD | CGM | State | RO | PIU | Unique Project Code | Project Name | Duration of Drone Video Survey (From) | Duration of Drone Video Survey (To) | From Chainage | To Chainage | Drone Survey Agency | Date of forwarding letter of contractor | Letter No |
|---------------------------------|---|-------------------------|-------------|--------------------|--------|-----------|--------------------|------------|---------------------|------------------|---------------------------------------|-------------------------------------|---------------|-------------|---------------------|---|-----------------------|
| Preview Video 1 | 1 | Submitted by Contractor | | | CGM-AP | Jharkhand | RO-Ranchi | Daltonganj | N/08008/03001/JH | 4L from km 1... | 28/10/2021 | 28/10/2021 | 196.8700 | 219.6000 | Other | 02/11/2021 | RGHPL/20-21/NH-75/128 |
| Preview Video 1 | 2 | Submitted by PIU | | | CGM-HR | Haryana | RO-Chandigarh (HR) | Sonapat | N/05021/01001/HR | Rohatak-Panipat | 27/10/2021 | 27/10/2021 | 0 | 80.8580 | Other | 02/11/2021 | 445 |
| Preview Video 1 | 3 | Submitted by PIU | | | CGM-DL | Haryana | RO-Delhi | Ghaziabad | N/01005/01002/HR | Eastern Perip... | 25/10/2021 | 28/10/2021 | 1 | 22 | Other | 01/11/2021 | 1259october |
| Preview Video 1 | 4 | Submitted by PIU | | | CGM-HR | Haryana | RO-Chandigarh (HR) | Sonapat | N/03008/06003/HR | Gohana - Sa... | 25/10/2021 | 25/10/2021 | 40.6010 | 78.8370 | Other | 01/11/2021 | 589 |

Home / Drone Videos

NOTE:
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|---------------------------------|---|------------------|-------------|--------------------|--------|---------------|----------|-----------|---------------------|--------------|---------------------------------------|-------------------------------------|---------------|-------------|---------------------|---|-------------|
| Preview Video 1 | 5 | Submitted by PIU | | | CGM-BM | Uttar Pradesh | RO-Ghazi | Ghaziabad | N/04040/01003/UP | DLXUF Bouda | 25/10/2021 | 30/10/2021 | 14.7500 | 31.6000 | Other | 01/11/2021 | 1259october |
| Preview Video 1 | 6 | Submitted by PIU | | | | | | | | | | | 50.5050 | | Other | 01/11/2021 | 1033 |
| Preview Video 1 | 7 | Submitted by PIU | | | | | | | | | | | 42 | | M/s Datspur Pvt Ltd | 29/10/2021 | 862 |
| Preview Video 1 | 8 | Submitted by PIU | | | | | | | | | | | 80.2500 | | Other | 01/11/2021 | 825 |
| Preview Video 1 | 9 | Submitted by PIU | | | | | | | | | | | 44.8000 | | Other | 01/11/2021 | 1096 |

Video Preview

AERIAL VIDEOGRAPHY OF 70B-B (AKSHARDHAM TO EYE) PACKAGE-2 FROM 14+750KM TO 31+659KM

24-09-2021 21-10-2021