सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075 • G-5 & 6, Sector-10, Dwarka, New Delhi-110075
दूरभाष/Phone : 91-11-25074100 / 25074200

भाराराप्रा/ नीति दिशानिर्देश/ मानक दस्तावेज़ / 2026
नीति परिपत्र सं. 11.115/2026 दिनांक 05th अक्टूबर 2026
{(ई-ऑफिस फाइल सं. RMDIV/2/2026-HOU Division (कम्प्युटर सं. 310164 पर लिया गया निर्णय)}

NHAI/Policy Guidelines/Standard Documents/2026
Policy Circular No. 11.115 / 2026 dated 05th October, 2026
{(Decision taken on E-Office File No. RMDIV/2/2026-HOU Division (Comp No. 310164)}

विषय: भाराराप्रा की केंद्रीयकृत फॉलिंग वेट डिफ्लेक्टोमीटर (एफ डब्ल्यू डी) एजेंसियों के माध्यम से डेटा संग्रह एवं सड़क शक्ति विश्लेषण करने हेतु मानक संचालन प्रक्रिया (एसओपी) के संबंध में।

Sub: Standard Operating Procedure (SOP) for undertaking Data collection and Pavement Strength Analysis through Centralised Falling Weight Deflectometer (FWD) Agencies of NHAI. reg:-

संचालन एवं रखरखाव (ओ एंड एम) चरण के तहत देश भर के सभी राष्ट्रीय राजमार्गों पर फॉलिंग वेट डिफ्लेक्टोमीटर (FWD) परीक्षण सुविधाएं प्रदान करने के लिए भाराराप्रा मुख्यालय द्वारा एजेंसियों को सूचिबद्ध किया गया है। सर्वेक्षण/ डेटा संग्रह का कार्य संबंधित एफडब्ल्यूडी एजेंसियों द्वारा संचालित किया जाएगा। सर्वेक्षणों के निर्बाध निष्पादन को सुगम बनाने के लिए, सभी संबंधित हितधारकों की जिम्मेदारियों को निर्दिष्ट करते हुए एक मानक संचालन प्रक्रिया (एसओपी) को अंतिम रूप दिया गया है।

NHAI HQ has empanelled Agencies for providing Falling Weight Deflectometer (FWD) testing facilities on all National Highways across the Country under O&M phase. The Surveys/ Data collection shall be conducted by the concerned FWD Agencies and to facilitate the seamless execution of the surveys, a Standard Operating Procedure (SOP) has been finalised specifying the responsibilities of all concerned Stakeholders.

2. तदनुसार, भाराराप्रा की केंद्रीयकृत फॉलिंग वेट डिफ्लेक्टोमीटर (एफ डब्ल्यू डी) एजेंसियों के माध्यम से डेटा संग्रह एवं सड़क शक्ति विश्लेषण करने हेतु मानक संचालन प्रक्रिया (एसओपी), कार्यान्वयन के लिए **अनुबंध-A** के रूप में इसके साथ संलग्न है।

Accordingly, the Standard Operating Procedure (SOP) for undertaking Data Collection and Pavement Strength Analysis through Centralised Falling Weight Deflectometer (FWD) Agencies of NHAI is enclosed herewith as **Annexure-A** for implementation.

3. यह सक्षम प्राधिकारी के अनुमोदन से जारी किया जाता है।
This issues with the approval of Competent Authority.

संलग्नक: यथोपरी।
Encl.: As stated above.

05/10/26

(सीएस. संजय कुमार पटेल/ CS. Sanjay Kumar Patel)
प्रभारी मुख्य महाप्रबंधक(समन्वय) (i/c) Chief General Manager (Coord.)

प्रति/ To:

भाराराप्रा मुख्यालय/आरओ/पीआईयू/सीएमयू/साइट कार्यालयों के सभी अधिकारी।
All Officers of NHAI HQ/ ROs/ PIUs/ CMUs/ Site Offices.

प्रतिलिपि/ Copy to:

1. पुस्तकालय की साइट पर प्रकाशन के लिए पुस्तकालय को।
Library for hosting the Circular on Library site.
2. परिचालन के लिए वेब एडमिन को।
Web Admin for Circulation.
3. सचिव, सड़क परिवहन और राजमार्ग मंत्रालय के प्रधान निजी सचिव को सूचनार्थ।
PPS to Secretary, MoRT&H for Kind Information.

Annexure-A

Standard Operating Procedure (SOP) for undertaking data collection and Pavement Strength Analysis through Centralised Falling Weight Deflectometer (FWD) agencies of NHAI.

NHAI HQ has empanelled agencies for providing Falling Weight Deflectometer (FWD) testing facilities on all National Highways under operation and maintenance phase. For this purpose, the Country has been divided into five zones as per the details mentioned below:

Package No.	Zone	States Covered	FWD Agency (M/s)	Work Distribution (in %)
1	A - North	Delhi, Haryana, Punjab, Himachal Pradesh, Uttarakhand & Jammu & Kashmir	TTL Engineering Pvt. Ltd.	100%
2	B - West	Rajasthan, Gujarat	TTL Engineering Pvt. Ltd.	50%
			Eclat Engineering Consultants	30%
			Indian Road Survey and Management Private Limited	20%
3	C - Center	Maharashtra & Madhya Pradesh	Agency(s) under empanelment	
4	D - South	Andhra Pradesh, Tamil Nadu, Telangana, Karnataka, Chhattisgarh & Kerala	Roadworks Engineers and Consultants Private Limited	100%
5	E - East	Assam, Bihar, Jharkhand, Meghalaya, Odisha, Uttar Pradesh & West Bengal	Eclat Engineering Consultants	50%
			Sri Infra Consulting Engineers Private Limited	30%
			Shweta Technophile Consultants Private Limited	20%

2. The surveys/ data collection shall be conducted by the empanelled FWD Agencies of concerned zones. Further, the surveys of stretches under Zone-C shall be conducted through empanelled agencies of nearby zones till the finalisation of empaneled agencies for Zone-C.

3. To facilitate the seamless execution of the surveys, the responsibilities of each stakeholder has been finalised and detailed as under:

3.1 Responsibilities of FWD Cell under Road Maintenance Division (RMD) at NHAI HQ:

a. All the activities related to procurement of Agencies and the contract management thereafter.

b. The approval, if required, of FWD equipment to be used for the surveys.

c. Finalisation of data collection schedule in consultation with FWD agencies and field units of NHAI.

d. The processing and analysis of the raw data collected during surveys shall be done by the FWD agency under the supervision of FWD Cell of RMD, NHAI HQ, within prescribed timelines as per the contract agreement.

3.2 Responsibilities of the centralised FWD Agencies:

a. Preparation and submission of tentative schedule for data collection upon the issuance of work order(s) by FWD Cell.

b. Collection of raw data using FWD equipment, transfer of raw data to NHAI HQ, processing and analysis of the raw data in accordance to latest guidelines /SOP issued by IRC /MoRTH/ NHAI, within prescribed timelines as per the contract agreement.

c. Coordination with the NHAI field units, well in advance for collection of necessary documents/ data related to the project required for smooth completion of data collection and its analysis. The witnessing of data collection has to be certified by the representatives of respective NHAI PIU, AE/IE and contractor/ concessionaire.

d. Intimating the respective PIU after completion of data collection and demobilization of the equipment from the site.

e. Preparation and submission of survey report to FWD Cell for review and acceptance.

3.3 Responsibilities of the field units of NHAI (PIU/ RO):

a. Submit the details of the stretches to be covered by FWD testing from time-to-time. The requirement for FWD survey shall be submitted to the email id: fwdcell@nhai.org alongwith the projects details i.e., name of the section, length, UPC, lane configuration, etc.

b. Providing logistic support including availability of Route Patrol Vehicle along with the required staff, to the FWD agencies for data collection.

c. Coordination with FWD agencies and RMD at NHAI HQ in respect of scheduling of surveys.

d. De-scoping the FWD survey work from the AE/ IE scope in case the stretch is covered by centralised FWD agency.

e. Providing Geo-coordinates of the Start and End of the O&M stretch to be covered in FWD survey.

f. Witnessing and certifying the data collection. PIU shall ensure the survey are conducted in the presence of representatives from AE/IE/SC (PIU's representatives in case of non-deployment of AE/IE/SC). Further, the representative of PIU shall also attend the survey, if possible.

g. Providing all the necessary documents/ data related to the project as per the instant contract agreement within one week of request made by the centralised FWD agencies. A tentative list of documents/ data to be provided to the FWD agencies is mentioned at **Appendix-I.**

h. Enforcement of contractual obligation of the respective contractors/ concessionaires w.r.t the final results of FWD testing.

Appendix-I

Tentative List of Documents/ data to be provided by the NHAI Field Units (PIU/RO) to the empanelled Falling Weight Deflectometer (FWD) agencies:

a. Contract/ Concession Agreement of the Project Road with all the schedules in pdf format.

b. Unique Project Code (UPC) in NHAI Datalake.

c. KMZ Files for the Project Road.

d. Coordinates (Latitude/ Longitude) of Start and End point of the Project.

e. Start and End Chainage of the Project with respective to Old and New NH Number system.

f. Details of any hindrances / construction zone for FWD testing within the project length.

g. Latest accepted NSV Report.

h. RoW of the Project Road.

i. FRL, cross section, pavement composition, structures details, drain type, median details etc.

j. Latest traffic survey data required for calculating the pavement's remaining life.

k. Details related to the service road, wayside amenities and utilities.

l. Junction details (Chainages) - Major / Minor, SH /NH/MDR/VR/ODR/Kaccha road, Authorized/ Unauthorized junction.

----------**********----------