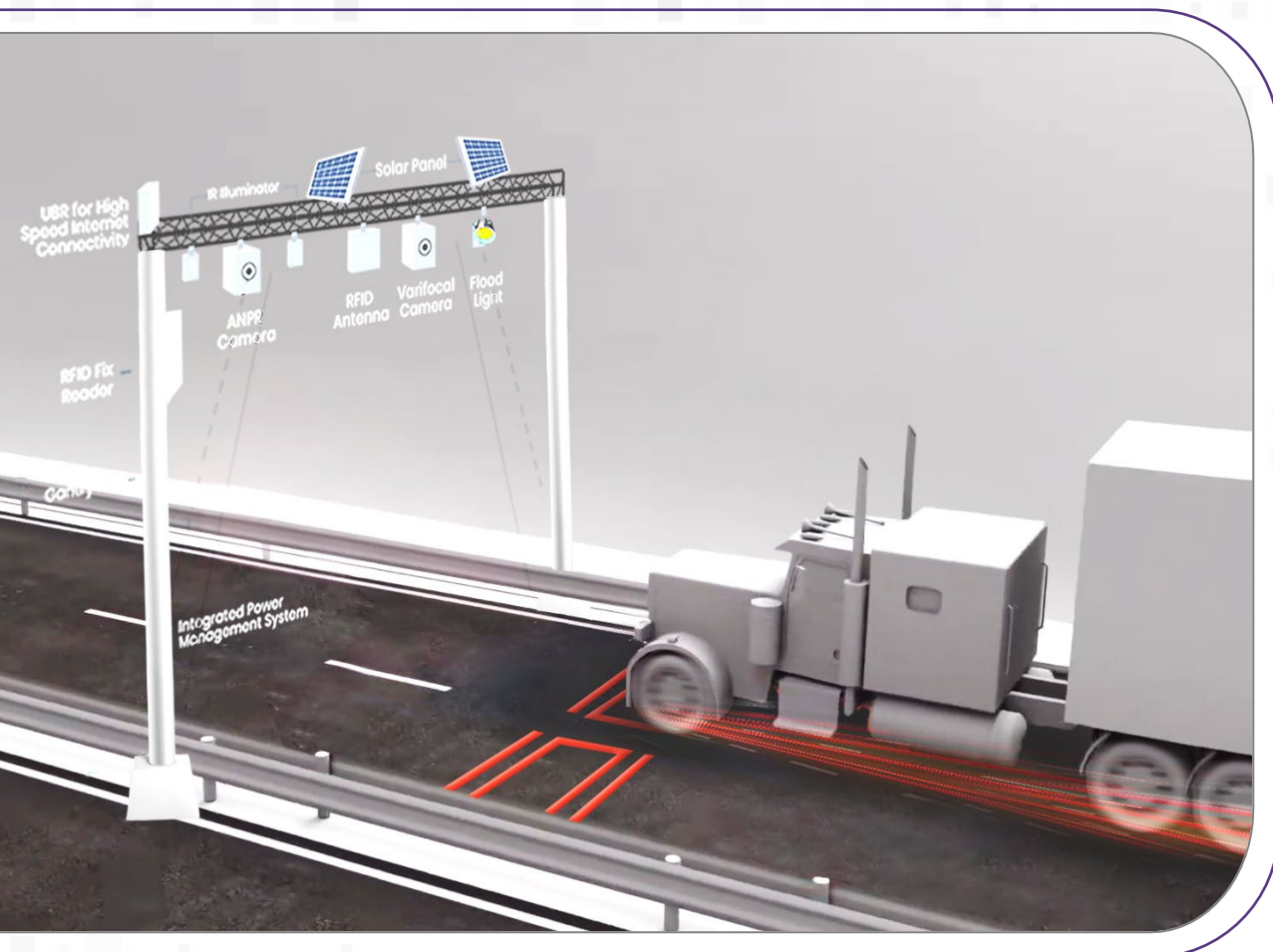




Guidelines to Install **Weigh-In-Motion** Sensor at Various Districts



By


margsoft
TECHNOLOGIES

Work Order for WIM

Transport Dept. to UPDESCO

कार्यालय परिवहन आयुक्त,
उत्तर प्रदेश।
पत्र सं-228 स०सु०/2024-16 स०सु०/2023 लखनऊ: दिनांक: 10 फरवरी, 2024
"कार्यादेश"

उत्तर प्रदेश डेवलपमेंट सिस्टम कारपोरेशन लिमिटेड, द्वितीय तल, अपट्रान बिल्डिंग, निकट गोमती बैराज, गोमती नगर, लखनऊ के पत्र संदर्भ सं०-डी/23-24 / 3089 दिनांक 19.10.2023 द्वारा विभिन्न जनपदों में खनिज विभाग द्वारा स्थापित चेकगेट पर Weigh In Motion (WIM) स्थापित कराये जाने तथा ओवरलोडेड वाहनों की Real Time अलर्ट/नोटिफिकेशन की सूचना तथा WIM का ई-चालान पोर्टल से इंटीग्रेशन किये जाने के संबंध में यूपीडिस्क को प्रश्नगत कार्य हेतु गठित क्रय समिति में विभागीय प्रतिनिधि को सम्मिलित किये जाने के साथ ही विभाग से कार्यादेश प्राप्त होने पर विभाग, यूपीडिस्क एवं सर्विस प्रोवाइडर के मध्य एक त्रिपक्षीय अनुबन्ध निष्पादित किये जाने हेतु किये गये अनुरोध के क्रम में परिवहन आयुक्त महोदय द्वारा निम्न अधिकारियों को प्रस्तावित समिति में सम्मिलित किये जाने हेतु नामित किया गया है:-

- श्री संजय नाथ झा, संभागीय परिवहन अधिकारी (स०सु०), मुख्यालय।
- श्री कमल जोशी, सहायक संभागीय परिवहन अधिकारी (प्राविधिक), मुख्यालय।

उपरोक्त विभागीय अधिकारियों को प्रस्तावित समिति में सम्मिलित कर अविलम्ब त्रिपक्षीय अनुबन्ध निष्पादित करते हुए संस्था के उक्त प्रस्ताव दिनांक 19.10.2023 के अनुरूप Weigh in Motion (WIM) की स्थापना संबंधी यथाशीघ्र कार्यवाही कराना सुनिश्चित करें। Weigh in Motion (WIM) संबंधी कार्यवाही किये जाने हेतु उत्तर प्रदेश डेवलपमेंट सिस्टम कारपोरेशन लिमिटेड (यूपीडिस्क) को अधिकृत किया जाता है।

उक्त के अतिरिक्त शासन के पत्र दिनांक 15.02.2023 द्वारा Weigh in Motion (WIM) की स्थापना हेतु संस्था के उक्त प्रस्ताव दिनांक 19.10.2023 द्वारा अनुमानित धनराशि रु० के प्रस्ताव पर वर्तमान वित्तीय वर्ष 2023-24 में कम समय शेष रह जाने के कारण प्रतिशत धनराशि अर्थात् का अग्रिम मुगतान किये जाने हेतु बैंक खाता विवरण तत्काल उपलब्ध कराना सुनिश्चित करें।

(पुष्पसेन सत्याधी)
अपर परिवहन आयुक्त (स०सु०),
उत्तर प्रदेश।

पृष्ठांक सं-228 (01)स०सु०/2024-समदिनांकित।

प्रतिलिपि:- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

- वरिष्ठ प्रबन्धक (प्रणाली), उत्तर प्रदेश डेवलपमेंट सिस्टम कारपोरेशन लिमिटेड, द्वितीय तल, अपट्रान बिल्डिंग, निकट गोमती बैराज, गोमती नगर, लखनऊ को इस अनुरोध के साथ प्रेषित कि उपरोक्तानुसार अविलम्ब कार्यवाही कराने का कष्ट करें।
- श्री संजय नाथ झा, संभागीय परिवहन अधिकारी (स०सु०), मुख्यालय को इस निर्देश के साथ प्रेषित कि यूपीडिस्क में प्रश्नगत कार्य हेतु गठित क्रय समिति की बैठकों में निर्धारित तिथियों पर प्रतिभाग करना सुनिश्चित करें।
- श्री कमल जोशी, सहायक संभागीय परिवहन अधिकारी (प्राविधिक), मुख्यालय, मुख्यालय को इस निर्देश के साथ प्रेषित कि यूपीडिस्क में प्रश्नगत कार्य हेतु गठित क्रय समिति की बैठकों में निर्धारित तिथियों पर प्रतिभाग करना सुनिश्चित करें।

अपर परिवहन आयुक्त (स०सु०),
उत्तर प्रदेश।

Work Order No. : 228 स.सु. /2024-16 स.सु. /2023,
Dated: 10-02-2024

UPDESCO to MSTPL

updescos

सर्विस ऑर्डर/Ref. No. : D/24-25/1813
दिनांक/Date : 17-08-2024

Work Order

M/S MARGSOFT Technologies Pvt. Ltd.
10-4-C, Metro City Apartment,
Paper Mill Colony Road,
Nishatganj, Lucknow.

Sub:- Work Order for Establishment of I-Weigh Track A Smart Vehicle Overload Monitoring System (Efficiently monitoring vehicle loads, ensuring safety on the move with our unmanned smart Weigh in Motion system) for Uttar Pradesh Transport Department.
This has reference to work order no. 815 /स.सु./2024-16 स.सु./2023, दिनांक 12 फरवरी, 2024 of Uttar Pradesh Transport Department for above mentioned subject and e-tender Ref. No.-UPDESCO/SW/2024/HCG089 dated 16.03.2024 in this regard.
This is to inform you that your financial e-bid has been found the lowest. We are pleased to issue this work order to you for Establishment of I-Weigh Track A Smart Vehicle Overload Monitoring System (Efficiently monitoring vehicle loads, ensuring safety on the move with our unmanned smart Weigh in Motion system) for Uttar Pradesh Transport Department.
On Successful completion of the work and the amount received for the same, you will be paid the amount as follows:-

1. Charges for the first Year :

Table-01						Total Amount with UPDESCO Margin
Sl. No.	Work Description	Unit/ Qty.	Unit Rate (Rs.)	Amount of Service Provider (Col. C*D) (Rs.)	UPDESCO Margin @10% of (Col E*10%) (Rs.)	Total Amount with UPDESCO Margin (Col E+F) (Rs.)
A	B	C	D	E	F	G
Part - A	Study, SRS Preparation, Design & Development of Required Web & Mobile application with DSS (Decision Support System) to monitor overloading offences using Weigh-in-Motion technology including Annual Maintenance Support.					
A.1	Project Study & SRS Preparation	1				
A.2	Design and Development of Web application with Decision Support System for monitoring of overloaded commercial vehicles using WIM technology for case review and issuance of notices.	1				
A.3	Design and Development of Mobile Application (Android) for monitoring of overloaded commercial vehicles for on-spot verification & real-time	1				
Total Amount (with GST)						

We are pleased to issue this work order for the above mentioned work. This order is governed by the following:-

- Terms and conditions specified in work order no. 815 /स.सु./2024-16 स.सु./2023, दिनांक 12 फरवरी, 2024 of Uttar Pradesh Transport Department for above mentioned subject and e-tender Ref. No.-UPDESCO/SW/2024/HCG089 dated 16.03.2024 in this regard.
- No other additional payment shall be made to you on any account for completion of above said job.
- The Payment shall be made on completion of the work and receipt of the payment from the client department.
- That all disputes and differences concerning this Agreement would be solved by way of arbitration through the sole arbitration of the Principal Secretary/Secretary, Department of I.T. & Electronics, Government of U.P. or a person nominated by him and all Litigations shall be subject to Lucknow jurisdiction only.
- Terms and conditions of agreement to be signed among Uttar Pradesh Transport Department, UPDESCO and you as Service Provider against this work order on non-Judicial stamp paper of Rs. 100/- (Annexure).

Encl: As above.

(V. K. Maurya)
Manager (S)

Copy to the following for kind information and necessary action please:-
1. Transport Commissioner, Uttar Pradesh Government.
2. Account Officer, UPDESCO.

(V. K. Maurya)
Manager (S)

Work Order No. : D/24-25/1813,
Dated: 17-08-2024

Project Objective

Establishment of Smart Enforcement System to Monitor Overloading Offences by installing Weigh-In-Motion System and Integration with the existing Mining Checkgate, Established by Directorate of Geology & Mining.

Benefits

- 01 Automatic real-time overloaded vehicle alert/notification
- 02 Reduction in Road Accidents
- 03 Lane violation detection
- 04 Registration number plate forgery detection
- 05 24*7 vigil on commercial vehicles
- 06 Online issuance of e-Notices via Mobile & Web portal
- 07 Speed Alert detection
- 08 Increase the lifespan of Road

Installation Process

STEP 1

Marking on the Road as per Layout



STEP 2

Cutting & Cleaning on the Road



Installation Process

STEP 3

Grout pouring before placing the sensor



STEP 4

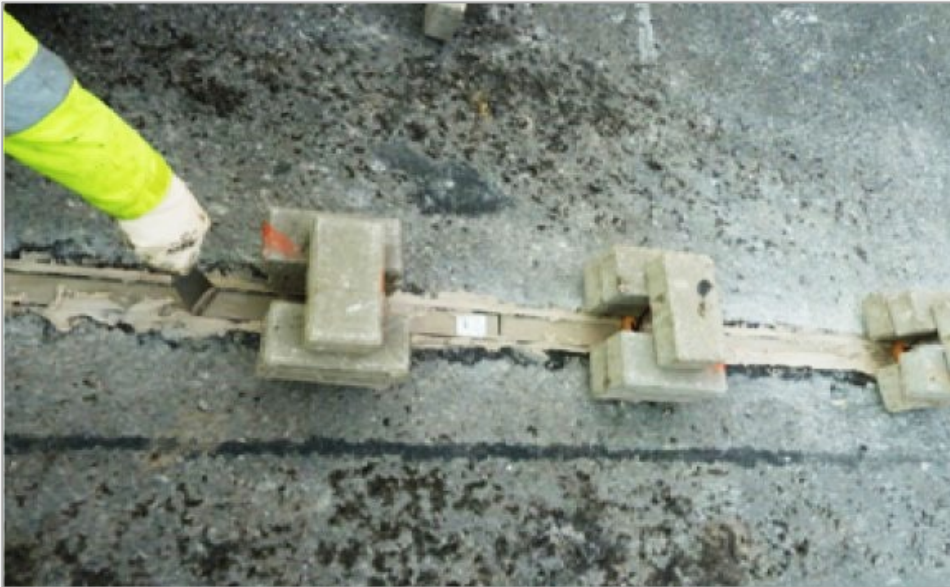
Sensor installation into the road surface



Installation Process

STEP 5

Putting Weight on the Sensor until the grout becomes hard

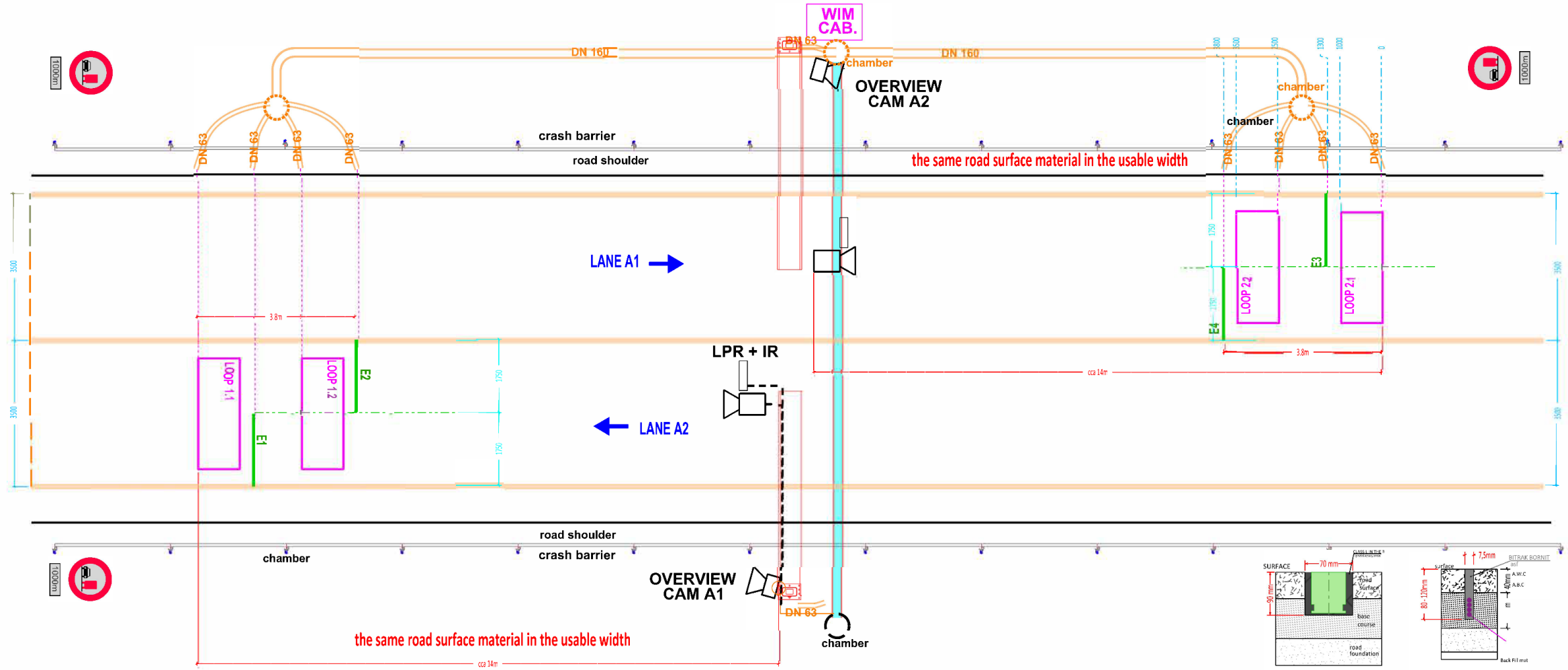


STEP 6

Grout hardening



Layout for Setup of WIM



Required Road Conditions for Setup of Weigh-In-Motion (WIM)

Criterion to be verified	Requirements	Result		
		Fulfilled	Not fulfilled	Conditionally fulfilled
Category-A				
'No Lane Violation' Zone Ahead	Yes			
Stable traffic (No traffic jam)	Yes			
Availability of electrical power	Yes			
Network availability for data communication	Yes			
Category-B				
Straight road (visual inspection)	Yes			
Without longitudinal slope (visual inspection)	Yes			
Small transversal slope (visual inspection)	Yes			
Flatness (no ruts, no bulges)	Yes			
Quality (no cracks)	Yes			
Depth of Road > 90mm	Yes			
Road MSA > 60	Yes			
Rutting on Road < 2mm	Yes			

Note: We need the road condition as per above-mentioned criteria, along with this the road quality plays a very crucial role. This WIM sensor is highly sensitive and can't recommended to re-install for accurate result. Therefore, we need to ensure the road quality at the proposed location must be good and durable for at least 3 to 5 years. In case any bulges develop on road, the sensor will be exposed, leading to inaccurate results.

Request from Department

- ✓ **A solid yellow line should be painted along the centerline of the road.**
- ✓ **Assurance that the road quality at the proposed location must be good and durable for at least 3 to 5 years. So, no bulges develop on the road which leads to inaccurate results.**
- ✓ **Road Condition will be required as per data sheet mentioned in Page No. 9**
- ✓ **Permission/approval for the installation of WIM at proposed location.**
- ✓ **No Objection Certification before Execution of the Work.**
- ✓ **Road Cutting as per the Attached Layout Drawing of WIM on Page No. 8**
- ✓ **Traffic Diversion with proper safety measures like Barricading and necessary caution boards during installation of Weigh-In-Motion.**

Request for Road Diversion

- ✓ **Traffic should be diverted for 3 to 5 Days during the cutting and installation of weigh-in-motion sensor.**
- ✓ **Required Proper safety measures like Barricading and necessary caution boards during installation of Weigh-In-Motion.**

THANK YOU



Scan QR Code to view the video
tutorial of WIM installation process

For any Query

Call Us : +91-9415408619 | 9936654228

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