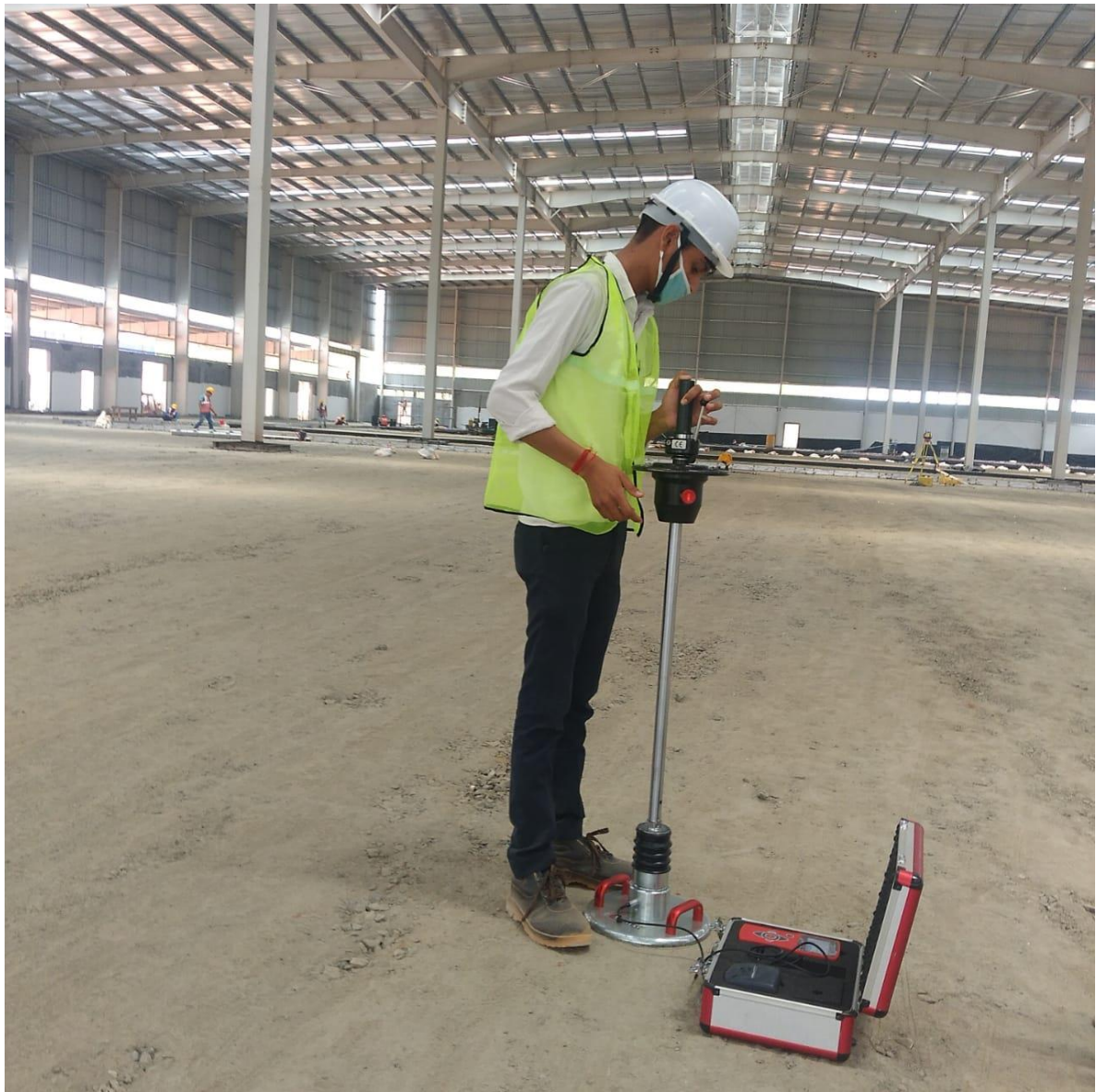




## APPLICATION NOTE

**HMP LFG PRO  
LIGHT WEIGHT  
DEFLECTOMETER**

**Concrete Planners®**



Client: Nahar Group  
Contractor: N/A

Project Name: Nahar Industrial Enterprises Ltd.  
Service Provider : Concrete Planners®

**Requirement:**

**To check the preparation of base and sub-base before placement of concrete or installation of structure in accordance with ASTM E2835-11 standard.**

Concrete Planners® requires checking the compaction quality of soils used in preparation of base & sub-base before installation of structure to provide a stable platform in accordance with ASTM E2835-11 standard.

**Solution:**

**Concrete Planners® uses the dynamic plate load testing equipment – HMP LFGPRO by Stanlay as per ASTM 2835-11 standard.**

The HMP LFG PRO portable light drop weight tester also referred to as Light Weight Deflectometer or LWD is a dynamic plate load test that is used to determine the soil bearing capacity and compaction quality of soils and non-cohesive sub-bases, as well as for soil improvement applications.

It is a modern technology used at the project of one of the leader of the textile industry.

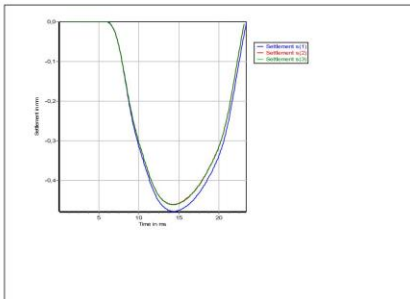

Concrete Planners® carry out testing over base and sub-base of concrete floors and other structures to design the stable platform before the installation.

It measures the deflection of the load plate which may be either correlated directly to pavement performance or used to determine in-situ material characteristics of the base or sub-base or pavement foundations.

Concrete Planners® uses this testing equipment for quality assurance purpose. Following are few applications areas:

1. Industrial concrete structures
2. Concrete road construction
3. Foundation back fill of building
4. Foundation back fill of PEB structures

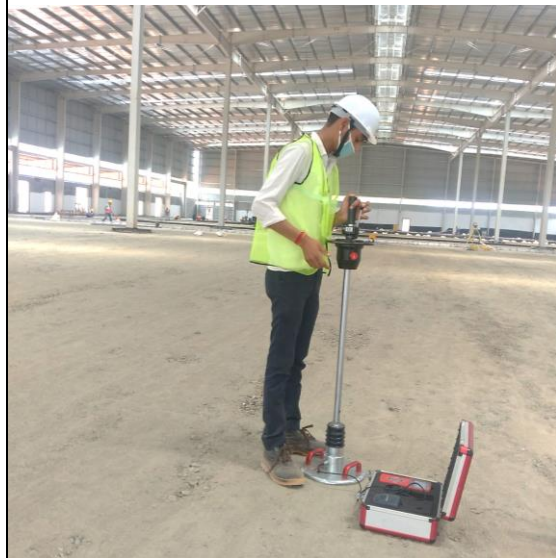
The graphical report showing the deflection and digital instant results are great help to make any corrections (if needed) in base preparation immediately after testing.

Concrete Planners 524, Udyog Vihar, Phase 5 Gurugram, Haryana. 122016 +91-8505866600 info@concreteplanners.com		<b>Dynamic Plate Load Test according to TP BF-StB Part B 8.3</b>		ABC Pvt. Ltd.
Project No.	33	Date/Time	06. :021/11:16	
Measuring series	523	Measuring point	N 6°48.10' ; E 73° 5'45 "	
Person	Abhishek Kumar	Temperature/Weather	33°C/Moderate Rain	
Name	ABC Pvt. Ltd.			
Project	Reference name of project			
Number	523-01			
Test surface/layer	WMM			
Kind of ground	Warehouse			
Plate base	300mm			
Attendants				
<b>Measuring data</b>	Settlement	Velocity		
	s(1)= 0,478 mm	v(1)= 126,2mm/s	<b>s/v= 3,83 ms</b>	
	s(2)= 0,461 mm	v(2)= 120,2mm/s		
	s(3)= 0,461 mm	v(3)= 118,8mm/s	<b>Evd= 48,18 MN/m²</b>	
	s(m)= 0,467 mm	v(m)= 121,7mm/s		
<b>Settlement[mm]-Time[ms]-Chart</b>				
				
<b>Remarks</b>				
Note:- Minimum passing value required is <70MN/m²				
				
Place and date		Signature		

Engineers carrying out test for road work.



Testing in presence of quality team deputed by end user.



Testing for floor slab design purpose for industrial facility.

Document ref :

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