

OFFICE OF THE ASSISTANT ENGINEER
RURAL WORKS DEPARTMENT
TESTING AND QUALITY CONTROL LABORATORY, KISHANGANJ-2

Letter No-----

Date 21.09.2025

Format - "B" (For Bridges)

Division :-

Block :-

1. Name of Scheme :- NABARD ^{L.74} TOI to panbasa Rce bridge
2. Type of Bridge :- Box Bridge Chainage/Location:- 0.200KM
3. Name of Stream :- NABARD
4. Length of Bridge :- 20.2 m
5. Type of Foundation :- Raft
6. Number of Span and Span length :- 2 x 8.00m.
7. Width of Bridge :- 8.45m

Sl.No	Parameters	Remarks
1	Attention to Quality	
I.	Field laboratory established with all necessary equipment (Attach Geo tagged Photographs).	<u>yes</u>
II.	QC Register Part-1 & Part-2, Reinforcement Register Maintained and mandatory test conducted as per provisions.	<u>partly Maintained</u>
III.	Mention the name of tests conducted & their findings related to the following material.	<u>Rebound hammer test conducted at wearing coat</u>
(a)	Cement	<u>—</u>
(b)	Fine Aggregate	<u>—</u>
(c)	Coarse Aggregate	<u>—</u>
(d)	Steel	<u>—</u>
	Awarded Grade	<u>S</u>
2	Arrangements at Site	
I.	Form work/Shuttering	<u>—</u>
II.	Curing facilitation/frequency	<u>—</u>
III.	Compaction (Machinery availability)	<u>—</u>
IV.	Reinforcement (Laying, fitting & spacing)	<u>—</u>

	Awarded Grade	NA
3	Foundation	
I.	TBM (Upload Geo-tagged photograph).	—
II.	Shape and Size of Piers.	—
III.	Pile Load Test Conducted as per Norms (Attach the test reports).	—
IV.	Dismantling of the pile beyond cut off level.	—
V.	Bottom plugging in case of Well foundation by using tremie method	—
VI.	Tilting & Shifting of Well within allowable limits.	—
VII.	Compressive Strength of the concrete cube. (Attach the test reports)	—
VIII.	Texture of the finished concrete structure.	—
IX.	In order to assess quality of concrete in case of doubt, if any, Non Destructive Test (NDT) such as Rebound hammer, Ultrasonic Pulse Velocity (UPV) etc. has been conducted. (If yes, then attach the test report).	—
	Awarded Grade	NA
4	Sub Structure	
I.	Granular/filler material behind the abutment and returns done properly.	Y
II.	Marking on Bridge components with the date of casting.	Y
III.	Compressive strength of the concrete cube. (Attach test report)	Y
IV.	In order to assess quality of concrete in case of doubt, if any, Non Destructive Test (NDT) such as Rebound hammer, Ultrasonic Pulse Velocity (UPV) etc. has been conducted. (If yes, then attach the test report).	Y
	Awarded Grade	S
5	Super Structure	
I.	Thickness of Deck Slab (mm).	550mm
II.	Camber of Deck Slab (%).	—
III.	Drainage Spout.	Y
IV.	Bearing-Type of Bearing & their Condition.	—
V.	Compressive strength of the concrete cube.	Y

VI.	Kerb.	Y
VII.	Quality of wearing surface (Attace test report of IRI)	Y
VIII.	Ralling. <i>(RCC Crash Barrier)</i>	Y
IX.	Expansion Joints.	—
X.	Approach Slab width, slope etc.	Y
XI.	Stopper.	—
XII.	In order to assess quality of concrete in case of doubt, if any, Non Destructive Test (NDT) such as Rebound hammer, Ultrasonic Pulse Velocity (UPV) etc. has been conducted. (If yes, then attach the test report).	—
	Awarded Grade	S
6	Protection Works	
I.	Types/Durability of Materials.	—
II.	Workmanship/finishing.	—
III.	Adequacy of weep hole.	Y
IV.	Temporary Diversion During Construction.	—
	Awarded Grade	S
7	Bridge Furniture and Markings	
I.	Main Informatory Board (As per Norms)	Y
II.	Citizen Informatory Board/Maintenance Board (As per Norms)	Y
III.	Bridge Marking/Painting	Y
IV.	Guard Stone fixed on Approaches. <i>(Crash Barrier)</i>	Y
V.	Mandatory and Caution Signage.	Y
	Awarded Grade	S

Note :- * Attach Test Report.

* Attach Relevant Photographs.

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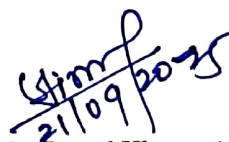
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Name of Work:- L074 T01 to Panbara RCC bridge at 0.200 Km
Mix Design:- M30
Date of test:- 21-09-2025

Rebound Hammer Test

Sl. No.	Observation of rebound hammer Test R-Value			
Location :-	PCC Pavement			
1	32.00			
2	34.00			
3	32.00			
4	36.00			
5	38.00			
6	32.00			
7	32.00			
8	34.00			
9	32.00			
Average Reading	33.56			
Equivalent Compressive Strength- Mpa	32.549			


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Test Results for Concrete Cubes

Name of Scheme:- L074 T01 to Panbara RCC bridge at 0.200 Km

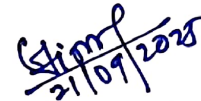
Package No.:- NABARD

Structure Name:- Deck Slab

Sl. No.	Mix Grade	Date of Casting	Date of test	Age in Day on Date of test	Area (cm ²)	Maximum load before failure	Crushing Strength in Kg/cm ²	Minimum Permissible limit in Kg/cm ²	Compressive Strength in N/mm ²	Remarks
1	M30	25-05-2025	21-09-2025	116	225	78000	346.67	300.00	34.01	S



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