



Substantial Testing for Quality Work

NABL ACCREDITED & ISO 9001:2015 CERTIFIED LABORATORY (H.D. Office) Abhiyanta Nagar, Z-Sector Plot No.-09, Near R.J. Complex, Ashlana Nagar, Patna-800025 (B.R. Office) Raj Kumar Ganj, Near Poor Home, Darbhanga

Mobile no.: +91-900-6069-267, Email: - mstesthouse@gmail.com

TEST REPORT

tssued To:

Executive Engineer RWD,WD, Pupri

Description of Sample: Design Mix

Grade:- M-30

Sub: - Mix Design of concrete for the Construction of Harijan Tola Sanjoglal

Paswan's house to PMGSY Chaurath Path.

Ref.No.-, Dated: 22.09.2020

Report No: MSTH-2309201933 Date of Receipt: 23.09.2020

Date of Testing: 23.09.20-21.10.20

Date of Report: 22.10.2020

The method of concrete mix design consists of selection of optimum proportions of water, cement, fine & coarse aggregate and admixture of produce concrete of specified properties most economically. The proportion of concrete mix is obtained by experimentally evolved relationship between the factors in the choice of mix design. It provides reasonably accurate guide to arrive at optimum proportions of ingredients. The final mix proportions are obtained on the basis of trial mixes. The mix design has been carried out as per stipulation of India standards specification IS: 10262 guidelines keeping in view the recommended mix standard deviations and targeted mean strength. The Recommended mix proportions should be tested at site for their workability & strength before it is adopted.

1.	Design Stipulations:	
Α	Characteristic Compressive Several Compressive	
В	Characteristic Compressive Strength of Concrete required in field after 28 days Target Strength at 28 days N/mm ²	20.11/ 3
С	Maximum size of Aggregates	30 N/mm²
D	Required Slump	38.25 N/mm ²
E	Degree of quality control	20 mm
F	Type of Exposure	80-100 mm
2.	Test Data For The Materials Used	Medium
		Moderate
A	Type of Cement	
В	Consistency, %	Grade- OPC 43
С	Initial Setting Time (Minutes)	(Prism Champion)
D	Final Setting Time (Minutes).	30.2
E	Compressive Strength (3 days) MPa	150
F	Compressive Strength (7 days) MPa	265
G	Compressive Strength (7 days) MPa	27.4
н	Compressive Strength (28 days) MPa Specific Gravity	36,6
I	Minimum Company	49.7
1	Minimum Cement Content	3.15
K	Specific Gravity of Admixture	320 Kg/m/S
Λ.	Type of Admixture	1.081.5.
		(¥/ X

ignatory Kanwaréshwar Kumar (Tech. Manager)

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-	Source Of Mate				Shelkhpura
A	Coarse Aggregate (20mm & 10 mm)			Koilwar	
В	Fine Aggregate (Sand)				Konwai
١.	Specific Gravity				2.69
Α	Coarse Aggreg				2.60
В	Fine Aggregat				13.3
С		% Coarse Aggregate (20n	nm)		15.5
5	Abrasion Value	CALL PROPERTY OF THE PARTY OF T			21.3
A	Coarse Aggre				21.5
5	Water Absorpt				0.66
Α	Coarse Aggre				1.19
В	Fine Aggregat				1,19
7.	Free Moisture	AND DESCRIPTION OF THE PERSON			Nil
A	Coarse Aggre				MII
8.		Bulk Density, Gm/Cc			
A	Coarse Aggre	Carried Control of the Control of th	100		1.50
В	Fine Aggrega	A complete control of the control of			. 1.00
9.	Sieve Analysis		100		
(I) Coarse Aggre		Analysis of Aggregate coarse fraction % finer (%)		As Per IS: 383 For Graded Aggregate Of Nominal Size	
-		20mm	10mm		62:38
_	40.0	100	100	100	100
	20.0	95.3	100	97.1	90-100
	12.5		100		
	10.0	11.2	89.6	41.0	25-55
	4.75	1.9	10.5	5.2	0-10
	2.36		1.3		•
(iii)	Fine Aggrega	te:			
IS : Sieve Size		Cumulative Percentage Passing		Cumulative percentage Finer as per IS: 383-2016 Zone-III	
10.0 mm		100		100	
4.75 mm		97.7		90-100	
2.36 mm		91.2		85-100	
1.18 mm		79.3		75-100	
600 micron		69.4		60-79	
300 micron		21.6		. 12-40	
150 micron		7.8		0-10	

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10. Determin	ation Of Q	uantity Of Materi	als:			
Water Cement ratio				0.43		
Water:					180.0 Ltr./m ³	
Sand content	t:				674 Kg/m³	
Coarse Aggre	gate:		A		1138 Kg/m ³	
Cement Cont	ent:	80 L	.022		422	Kg/m ³
Slump		2028	A001000		110 mm	
11. Ratio (B	Weight)	* 1 da	A STATE OF THE STA		W	
Ceme	nt Content		Water	F	ine Aggregate	Coarse Aggregate
1 6		557	0.43	1.60		2.70
Mix Proport	ion By Wei	ght Are As Follows				
Cement		Water Kg/m³	Admixture (% by w Cement), Kg/m ³ (0.		Fine Aggregate Kg/m ³ (38%)	Total Coarse Aggregate (20mm) Kg/m³ (62%)
Trial-1	434	190.0	3.906		661	1115
Trial-2	428	185.0	3.852		667	1127
Trial-3	422	180.0	3.798		674	1138

Mix Proportion By	Weight Are As Follo	ows:		
Cement Kg/m ³	Water Kg/m³	Adminton	Fine Aggregate Kg/m ³ (38%)	Total Coarse Aggregate (20mm) Kg/m³ (62%)
50	21.5	0.45	. 80.0	135.0



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12. A.	Compressive Strength (7 Days)	DOC-23.09.2020	DOT-30.09.2020	
S No.	Compressive Strength (N/mm²)	Average C	compressive Strength	
5.0		(N/mm²)	(Kg/cm²)	
1.	22.9		(1.6) (1.1)	
2.	23.2	23.4	224	
3.	24.1	7	234	
В,	Compressive Strength (28 Days)	DOC-23.09.2020 DOT-21.10.2020		
S No.	Compressive Strength (N/mm²)	Average Compressive Strength		
-		(N/mm²) .	(Kg/cm²)	
1.	39.7		1.9/ /	
2.	38.6	39.5	395	
3.	40.2	7 33.3	393	

Remarks: -

- 1. Trial-3 is recommended for the mix proportion at the Site for their Workability and Strength.
- 2. This mix design has been done at saturated condition.
- Your material brought at site is dry or wet, than water can be decreased or increased according 3. water Absorption.
- Tap Water of our lab has been used, if water not supply, water should be pure and clean in concrete mix As Per IS: 456-2000 & IS: 3025
- Admixture is Used.

Kanwareshwar Kumar (Tech. Manager)



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TEST REPORT

Issued To:

Executive Engineer RWD, WD, Pupri

Description of Sample: Granular Sub Base (G.S.B)

Sub: Construction of Harijan Tola Sanjoglal Paswan's house to

PMGSY Chaurath Path

Ref. No:, Dated: 18.09.2020

Report No: MSTH-180920517

Date of Receipt: 18.09.2020

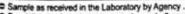
Date of Testing: 18.09.20-20.09.20

Date of Report: 21.09.2020

SL no.	Test .	Result	Test Method	Requirement as per MoRTH Table-400.1,2 GR-I
1.	IS Sieve (mm) Gradation,% pa	ssing	No. of the last of	
a.	75.00	100.00		100
b.	53.00	92.5	TARREST S	80-100
c.	26.50	76.8		55-90
d.	9.50	55.4	IS 2386(P-1)1963	35-65
e.	4.75	38.7		25-55
f.	2.36	29.6		20-40
g.	0.425	11.2		10-15
h.	0.075	2.8		<5

End of Report





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TEST REPORT

Issued To:

Executive Engineer RWD, WD, Pupri

Description of Sample: Water Bound Macadam (W.B.M)

Sub: Construction of Harijan Tola Sanjoglal Paswan's house to

PMGSY Chaurath Path Ref. No:, Dated: 18.09.2020

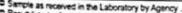
Report No: MSTH-180920519 Date of Receipt: 18.09.2020

Date of Testing: 18.09.20-20.09.20

Date of Report: 21.09.2020

SL no.	Test	Result	Test Method	Requirement as per MoRTH Table-400.6 GR-III
1.	S Sieve (mm) Gradation % pas	sing	Text I was a second	
a.	63.00	100.00	IS 2386(P-1)1963	100
b.	53.00	93.9		95-100
c.	45.00	85.6		65-90
d.	22.4	7.2		0-10
e.	11.2	0.8		0-5

End of Report



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