

गुण नियंत्रण इकाई का कार्यालय  
पथ प्रमंडल संख्या-1, मुजफ्फरपुर

पत्रांक :- ..... ३१(अ.३).....

मुज०/दिनांक :-..... 18/3/17

प्रेषक :- सहायक अभियंता (अवर प्रमंडल सं०-1)  
(अतिरिक्त प्रभार) गुण नियंत्रण इकाई  
पथ प्रमंडल सं०-1, मुजफ्फरपुर

सेवा में,

कार्यपालक अभियंता  
पथ प्रमंडल संख्या- I, मुजफ्फरपुर  
सहायक अभियंता  
पथ अवर प्रमंडल, संख्या- I, मुजफ्फरपुर

विषय :- पथ प्रमंडल संख्या- I, मुजफ्फरपुर अन्तर्गत करजा-जैतपुर पथ के कि० मी० 0 से 11.5 में आई० आर० क्यू० पी० कार्य सह अनुरक्षण कार्य वर्ष 2016-17 अन्तर्गत कि० मी० 1 से 7 में B.M. कार्य हेतु Hot Mix Plant, Patahi, Muzaffarpur पर आपूर्ति किए गए Stone Aggregates का Gradation/A.I.V. जाँचफल तथा कि० मी० 7 & 6, 5 & 4, एवं 3, 2 & 1 में कराए जा रहे B.M. कार्य में Bitumen Content जाँचफल प्रतिवेदन समर्पित करने के संबंध में।

Name of Agency :- Bachcha Singh, Dist.- Saran.

महाशय ,

उपरोक्त विषयांकित पथ प्रमंडल संख्या- I, मुजफ्फरपुर अन्तर्गत करजा - जैतपुर पथ के कि० मी० 0 से 11.5 में आई० आर० क्यू० पी० कार्य सह अनुरक्षण कार्य वर्ष 2016-17, अन्तर्गत कि० मी० 1 से 7 में B.M. कार्य हेतु Hot Mix Plant, Patahi, Muzaffarpur पर आपूर्ति किए गए Stone Aggregates का Gradation/A.I.V. जाँचफल तथा कि० मी० 7 & 6, 5 & 4, एवं 3, 2 & 1 में कराए जा रहे B.M. कार्य में Bitumen Content जाँचफल प्रतिवेदन, जाँचफल संचिका संख्या 53 के पेज सं० 14 से 16 में निष्पादित किए गए जाँच के अनुरूप, अवलोकनार्थ एवं अग्रतर कारवाई हेतु समर्पित किया जाता है।

अनुलग्नक :- यथोक्त।

विश्वासभाजन

*(Handwritten Signature)*  
18/3/17

सहायक अभियंता (अवर प्रमंडल सं०-1)  
(अतिरिक्त प्रभार) गुण नियंत्रण इकाई  
पथ प्रमंडल सं०-1, मुजफ्फरपुर

*(Handwritten Signature)*  
18/3/17

*(Handwritten Mark)*

# DETERMINATION OF BINDER CONTENT IN THE BITUMINOUS MIX OF B.M./D.B.M./S.D.B.C./B.C.

QUALITY CONTROL UNIT, ROAD DIVISION NO.1, MUZAFFARPUR.

Name of work :- I.R.Q.P. cum Output and Performance Based Road Assets Maintenance (C.M.B.D.) Work of Karja (N.H.-102) to Jaitpur (S.H.) from Km. 0 to 11.50 for the year 2015-16.

Name of work run :- B.O.G. work

Location :- 3, 2 & 1 kms (Parts)

Sample taken :- Approx 500gm x 3 (Sample collected at laying site on 16/3/17 & 17/3/17)

Date of test :- 18/3/17

Agreement No.:- C. M.B.D. 09 of 2016-17.

Name of Agency :- Bachcha Singh, Dist.-Saran

Observation Register No. 53 Page No 16

1.	Sample Taken	I	II	III
2.	Wt. of Sample Before Extraction-(gm)/W <sub>1</sub>	500.060	503.260	507.120
3.	Wt. of Filter Paper Before Extraction-(gm)/B	11.600	11.550	11.530
4.	Wt. of Sample After Extraction-(gm)/ W <sub>2</sub>	482.010	485.050	488.460
5.	Wt. of Filter Paper After Extraction-(gm)/D	11.880	11.840	11.830
6.	Wt. of Fine Material, Recovered from the Extract-(gm)W <sub>3</sub>	1.360	1.410	1.420
7.	Increase in Wt. of Filter Paper-(D-B)= W <sub>4</sub>	0.280	0.290	0.300
8.	Percentage of Binder Content- [W <sub>1</sub> -( W <sub>2</sub> +W <sub>3</sub> + W <sub>4</sub> )/ W <sub>1</sub> ] X 100	3.28	3.28	3.34
9.	Average % of Binder Content		3.30	
10.	Required % of Binder Content			
11.	Remarks			

(Test performed by the Centrifuge Bitumen Extractor)  
Copy to:-(1) E.E., Road Division No.1 Muzaffarpur  
(2) A.E., Road Sub-Division No.I/II/Deoria

Letter No.----- Date-----

*[Signature]*  
Assistant Research Officer  
Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

*[Signature]*  
A.E. (Sub-Div. No.1)  
Incharge Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

*[Handwritten mark]*

**DETERMINATION OF BINDER CONTENT IN THE BITUMINOUS MIX  
OF B.M./D.B.M./S.D.B.C./B.C.  
QUALITY CONTROL UNIT, ROAD DIVISION NO.1, MUZAFFARPUR.**

Name of work :- I.R.Q.P. cum Output and Performance Based Road Assets Maintenance (C.M.B.D.) Work of Karja (N.H.-102) to Jaitpur (S.H.) from Km. 0 to 11.50 for the year 2015-16.

Name of work run :- B.S. Work

Location :- 5 & 4 kms (Parks)

Sample taken :- Approx 500gm x 3 (Sample collected at laying site on 9/3/17 & 10/3/17)

Date of test :- 11/3/17

Agreement No.:- C. M.B.D. 09 of 2016-17.

Name of Agency :- Bachcha Singh, Dist.-Saran

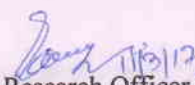
Observation Register No. 53 Page No 15

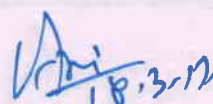
1.	Sample Taken	I	II	III
2.	Wt. of Sample Before Extraction-(gm)/W <sub>1</sub>	510.750	508.630	505.460
3.	Wt. of Filter Paper Before Extraction-(gm)/B	11.320	11.660	11.470
4.	Wt. of Sample After Extraction-(gm)/ W <sub>2</sub>	492.360	489.940	487.440
5.	Wt. of Filter Paper After Extraction-(gm)/D	11.620	12.010	11.800
6.	Wt. of Fine Material, Recovered from the Extract-(gm)W <sub>3</sub>	1.540	1.600	1.560
7.	Increase in Wt. of Filter Paper-(D-B)= W <sub>4</sub>	0.300	0.350	0.330
8.	Percentage of Binder Content- [W <sub>1</sub> -( W <sub>2</sub> +W <sub>3</sub> + W <sub>4</sub> )/ W <sub>1</sub> ] X 100	3.24	3.29	3.19
9.	Average % of Binder Content		3.24	
10.	Required % of Binder Content			
11.	Remarks			

(Test performed by the Centrifuge Bitumen Extractor)

Copy to:-(1) E.E., Road Division No.1 Muzaffarpur  
(2) A.E., Road Sub-Division No.1/II/Deoria

Letter No.----- Date-----

  
Assistant Research Officer  
Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

  
A.E. (Sub-Div. No.1)  
Incharge Quality Control, Road Division No.1  
R.C.D. Muzaffarpur



**DETERMINATION OF BINDER CONTENT IN THE BITUMINOUS MIX  
OF B.M./D.B.M./S.D.B.C./B.C.**

**QUALITY CONTROL UNIT, ROAD DIVISION NO.1, MUZAFFARPUR.**

Name of work :- I.R.Q.P. cum Output and Performance Based Road Assets Maintenance (C.M.B.D.) Work of Karja (N.H.-102) to Jaitpur (S.H.) from Km. 0 to 11.50 for the year 2015-16.

Name of work run :- B.M. Work

Location :- 7 & 6 kms (Parts)

Sample taken :- Approx 500 gm. x 4 (Sample collected at H.M. Plant, Patna, 09 Aug. on 7/3/17 & 8/3/17)

Date of test :- 9/3/17

Agreement No.:- C. M.B.D. 09 of 2016-17.


Name of Agency :- Bachcha Singh, Dist.-Saran

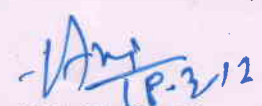
Observation Register No. 53 Page No 15

1.	Sample Taken	I	II	III	IV
2.	Wt. of Sample Before Extraction-(gm)/W <sub>1</sub>	503.240	506.060	500.250	508.130
3.	Wt. of Filter Paper Before Extraction-(gm)/B	11.730	11.640	11.530	11.700
4.	Wt. of Sample After Extraction-(gm)/ W <sub>2</sub>	485.260	487.670	482.070	490.030
5.	Wt. of Filter Paper After Extraction-(gm)/D	12.070	11.930	11.840	12.010
6.	Wt. of Fine Material, Recovered from the Extract-(gm)W <sub>3</sub>	1.430	1.400	1.310	1.470
7.	Increase in Wt. of Filter Paper-(D-B)= W <sub>4</sub>	0.340	0.290	0.310	0.310
8.	Percentage of Binder Content- [W <sub>1</sub> -( W <sub>2</sub> +W <sub>3</sub> + W <sub>4</sub> )/ W <sub>1</sub> ] X 100	3.22	3.30	3.31	3.21
9.	Average % of Binder Content	3.26			
10.	Required % of Binder Content				
11.	Remarks				

(Test performed by the Centrifuge Bitumen Extractor)  
Copy to:- (1) E.E., Road Division No.1 Muzaffarpur  
(2) A.E., Road Sub-Division No.I/II/Deoria

Letter No.----- Date-----

  
Assistant Research Officer  
Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

  
A.E. (Sub-Div. No.1)  
Incharge Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

*nc*

# GRADATION TEST OF STONE AGGREGATES FOR B.M.

## QUALITY CONTROL UNIT, ROAD DIVISION NO.1, MUZAFFARPUR.

Name of work :- I.R.Q.P. cum Output and Performance Based Road Assets Maintenance (C.M.B.D.) Work of Karja (N.H.-102) to Jaitpur (S.H.) from Km. 0 to 11.50 for the year 2015-16.

Name of work run:- B.M. Work

Location :- 1 to 7 Km

Date of test :- 06/3/17

Agreement No.- C.M.B.D. 09 of 2016-17.

Observation Register No. 53 Page No. 14

Name of Agency :- Bachcha Singh, Dist.-Saran

Sample taken :- 30,000 Kg (Collected 10,500 kg @ 35% Coarse Aggregate & 19,500 kg @ 65% fine Aggregate from B.M. S. 8. 8. 17 on 4/3/17)

Sl. No.	Sieve size in M.M.	Weight retained in Kg.	% weight retained	Cumulative % retained	% of passing	Required % of passing	Flakiness Index		Water Absorption		Remarks	Checked by
							As per test	Max. % allowed	As per test	Max. % allowed		
1.	26.5	1.110	3.7	3.7	96.3	100						E.E. Rd. Div No.1, Muz.
2.	190	2.340	7.8	11.5	88.5	90-100						
3.	132	6.840	22.8	34.3	65.7	56-88						
4.	4.75	10.650	35.5	69.8	30.2	16-36	10.6	30.0				
5.	2.36	4.620	15.4	85.2	14.8	4-19						
6.	300 micron	2.640	8.8	94.0	6.0	2-10						A.E. Rd. Sub Div. No.1/II Deoria
7.	75 micron	1.170	3.9	97.9	2.1	0-8						

Copy To:- (1) E.E. Road Division No.1, Muzaffarpur  
(2) A.E. Road Sub Division No. 1/II/Deoria

Letter No. .... Date: 14/3/17  
A.E. (Sub-Div. No.1)  
Incharge Quality Control, Road Division No.1  
R.C.D. Muzaffarpur

Assistant Research Officer  
Quality Control, Road Division No. 1  
R.C.D. Muzaffarpur