

REPORT ON
BITUMEN CONTENT TEST
FOR THE PROPOSED
C/O

GT ROAD TO SHALLWAN MAHUANWAN
UNDER SCHEME
MR 3054

SUBMITTED TO:
EXECUTIVE ENGINEER
RWD. WORKS DIVISION, AURANGABAD

AGENCY NAME :
LAHASA & CO
MADANPUR AURANGABAD

TESTING BY :
**OM SAI TESTING AND RESEARCH
LABORATORY**

*HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND
PIN CODE 834001*

OM SAI TESTING AND RESEARCH LABORATORY

HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND

PIN CODE 834001

BITUMEN CONTENT TEST OF SDBC

Name of Road : GT ROAD TO SHALLWAN MAHUAUNWAN UNDER
SCHEME MR 3054

Type Of Material : SDBC

DATE OF COLLECTION 7-Jul-20

DATE OF TESTING 11-Jul-20

SAMPLE NO.

A1

A2

A3

Chainage & Section:		0+425KM	0+965KM	1+655 KM
S.NO.	Observations	1	2	3
1	Wt. of Mix taken before extration (A)	500	500	500
2	Wt. of filter paper before extration (B)	6.00	6.00	6.00
3	Wt. of Mix after extration (c)	472.85	471.9	472.42
4	Wt. of filter paper after extration (D)	6.8	7.25	6.78
5	Wt. of filler collected from extract after allowing for seting (E)	1.55	1.95	1.740
6	Wt. of filler collected in filter paper (B-D) = (F)	0.68	1.25	0.78
7	Wt. of Aggregate + Filler collected after extration (C + E + F) = (G)	475.08	475.1	474.9
8	Percentage of Bitumen (in the Mix) $\frac{(A-G) \times 100}{A}$	4.98	4.98	5.01

Layer	Value	
SDBC	Avg. Value	4.992%

Checked By

Tested By



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BITUMEN CONTENT TEST OF SDBC

Name of Road : GT ROAD TO SHALLWAN MAHUAUNWAN UNDER SCHEME 3054

Type Of Material : SDBC

DATE OF COLLECTION 8-Jul-20

DATE OF TESTING 11-Jul-20

SAMPLE NO.

A4 A5 A6

Chainage & Section:		2+223KM	3+389 KM	3+969 KM
S.NO.	Observations	1	2	3
1	Wt. of Mix taken before extration (A)	500	500	500
2	Wt. of filter paper before extration (B)	6.00	6.00	6.00
3	Wt. of Mix after extration (c)	472.65	472.33	472.45
4	Wt. of filter paper after extration (D)	6.95	7.24	7.05
5	Wt. of filler collected from extract after allowing for seting (E)	1.51	1.55	1.540
6	Wt. of filler collected in filter paper (B-D) = (F)	0.95	1.24	1.05
7	Wt. of Aggregate + Filler collected after extration (C + E + F) = (G)	475.11	475.12	475.0
8	Percentage of Bitumen (in the Mix) $\frac{(A-G) \times 100}{A}$	4.98	4.98	4.99
Layer		Value		
SDBC		Avg. Value	4.982%	

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TEST RESULTS OF SEMI-DENSE BITUMINOUS CONCRETE FLAKINESS FLAKINESS INDEX

NAME OF ROAD GT ROAD TO SHALLWAN MAHUAUNWAN UNDER SCHEME 3054

Type Of Material SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test 10-07-2020

Weight of Sample(gr) - 493 GM

Sno	Passing through IS Sieve (mm)	Retained on IS sieve (mm)	Wt. of the fraction of at least 200 pieces (gm)	Thickness gauge size (mm)	Wt. of aggregate in each fraction passing thickness gauge (gm)
1	2	3	4	5	6
1	12.5	10	30	6.75	0
2	10	6.3	463	4.89	59
Total (gm)			W= 493	w= 59	

F.I.= 9.94

ELONGATION INDEX

NAME OF ROAD GT ROAD TO SHALLWAN MAHUAUNWAN UNDER SCHEME 3054

Type Of Material SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test 10-07-2020

Weight of Sample(gr) - 468 GM

Sno	Passing through IS Sieve (mm)	Retained on IS sieve (mm)	Wt. of the fraction of at least 200 pieces (gm)	Thickness gauge size (mm)	Wt. of aggregate in each fraction passing thickness gauge (gm)
1	2	3	4	5	6
1	12.5	10	30	20.50	0
2	10	6.3	438	14.70	51

Total (gm)

W= 468

F.I.= 10.9

F.I.+E.I.= 9.94+10.90

20.84

Authorized Signatory

Checked By



OM SAI TESTING AND RESEARCH LABORATORY

HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND

PIN CODE 834001

TEST RESULTS OF GRADATION FOR SEMI-DENSE BITUMINOUS CONCRETE (SDBC)

NAME OF ROAD GT ROAD TO SHALLWAN MAHUANWAN UNDER SCHEME 3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

10-07-2020

Weight of Sample - 3460 GM

I.S Sieve Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Spec.Limits Vide Table 500.15 MORTH Specification
13.2mm	0	0	0	100	100
9.5mm	109	3.15	3.15	96.85	90-100
4.75mm	1687	48.75	51.9	48.1	35-51
2.36mm	599	17.3	69.2	30.8	24-39
1.18mm	401	11.6	80.8	19.2	15-30
0.300mm	260	7.5	88.3	11.7	9-19.
0.075mm	236	6.81	95.11	4.89	3-8.
In Pan	168	4.89	100	0	-

Checked By

Tested By



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PIN CODE 834001

TEST RESULTS OF GRADATION FOR SEMI-DENSE BITUMINOUS CONCRETE (SDBC)

NAME OF ROAD

GT ROAD TO SHALLWAN MAHUAANWAN UNDER SCHEME MR3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

10-07-2020

Weight of Sample - 3348 GM

I.S Seive Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Spec.Limits Vide Table 500.15 MORTH Specification
13.2mm	0	0	0	100	100
9.5mm	137	4.1	4.1	95.9	90-100
4.75mm	1575	47.05	51.15	48.85	35-51
2.36mm	619	18.5	69.65	30.35	24-39
1.18mm	405	12.09	81.74	18.26	15-30
0.300mm	238	7.12	88.86	11.14	9-19.
0.075mm	203	6.06	94.92	5.08	3-8.
In Pan	170	5.08	100	0	-

Checked By

Tested By



कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, औरंगाबाद।
Email ID:-eerwdaurangabad1@gmail.com

पत्रांक २४/७ अत्र औरंगाबाद/दिनांक 13/7/20

प्रेषक,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, औरंगाबाद।

सेवा में,

नोडल पदाधिकारी (MR 3054)
ग्रामीण कार्य विभाग
पटना, बिहार

विषय :- नई अनुरक्षण नीति-2018MR (3054)योजना के अंतर्गत पथ में कराये गये कार्य के विरुद्ध आवंटन उपलब्ध कराने के संबंध में।

महाशय,

उपरोक्त विषय के संबंध में सूचित करना है कि नई अनुरक्षण नीति-2018 MR (3054)योजना के अंतर्गत पथ में कराये गये कार्य के लिए संवेदक को भुगतान करने हेतु अधियाचना विहित प्रपत्र में भरकर आवश्यक कार्यवाही हेतु समर्पित की जाती है।

अनु :- यथोक्त।

विश्वासराजन

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, औरंगाबाद

13.7.20
(HANA)
13.07.20

OFFICE OF EXECUTIVE ENGINEER, RURAL WORKS DEPARTMENT, WORKS DIVISION, Aurangabad

Requisition Format for Scheme Head- MR(3054) under Bihar Rural Road Maintenance Policy-2018 (Initial Rectification and Surface Renewal)

Name of Works Division:- Aurnagabad

Sl no.	Package No MR-N/ 2019-20 Aurangabad/	Name of Road	Project ID as per MIS	Administrative Approval (AA) Letter No & Date	Administrative Approval (AA)		Agreement Amount (In Lakh)		Agreement No& Date	Date of Completion as per Agreement	Actual Date of Comple tion	Value of IRI (in mm/ km)	SDBC		Previous Total Alloted Amount (In Lakh)	up-to-date expenditure as per MIS (In Lakh)	Requisition against work done (In Lakh)	Remarks
					Length (In km)	Amount of (In Lakh)	Initial Rectificatio n with Surface Renewal (In Lakh)	5 Year Routine Maintena nce (In Lakh)					Thickness of Bitumen Layer (in mm)	Value of Bitumen Content in Percentag e				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	RM/AU/AUR/19/0024	Sarda Dunori Road - Kanaudha	106028020 87	Letter No. 3140 Date 22.07.2019	4.00	141.194	82.79000	35.84000	74MBD/201 9-20 Date 20.02.2020	19.11.2020	-	3215	25	5.170	0.00000	0.00000	82.79000	Ongoing
2	RM/AU/AUR/19/0026	ambanabinagar - turtta	NEA22000 182	Letter No. 3140 Date 22.07.2019	3.300	120.72680	70.99000	30.50000	79MBD/201 9-20 Date 20.02.2020	19.11.2020	-	3215	25	5.08	0.00000	0.00000	70.99000	Ongoing
3	RM/AU/AUR/19/0028	AMBANABINAGA R - SUHI	NEA22000 178	Letter No. 3140 Date 22.07.2019	2.400	90.07110	52.64000	23.020	79MBD/201 9-20 Date 20.02.2021	19.11.2021	-	3215	25	5.10	0.00000	0.00000	52.64000	Ongoing
4	RM/AU/AUR/19/0030	G.T. Road - Shailwan Mahuanwan	106029020 13	Letter No. 3140 Date 22.07.2019	4.050	154.77000	91.82000	38.220	58MBD/201 9-20 Date 02.02.2020	03.11.2020	-	3215	25	5.01	0.00000	0.00000	91.82000	Ongoing
Total																	298.24000	

Handwritten signature and date: 13/12/20

Handwritten signature and date: 13/12/20
Executive Engineer
Rural Works Department
Works Division, Aurnagabad
19.12.20

G.T ROAD TO SAILAWA MAHUWAIN CONST NAME LAHASHA & CO BLOCK MADANPUR

Date	Time	Section No.	Length in km	Bumps in mm	Speed Rate	OR mm/km	IRI mm/km	CATEGORY ROAD	Latitude	Longitude	Event
7/7/20	13:23:50	19	0.1	290	0	2900	3315	G	24.670362	84.548855	Normal
7/7/20	13:24:24	19	0.1	310	10.1	3100	3515	G	24.6712	84.549343	Normal
7/7/20	13:25:0	19	0.1	300	10.1	3000	3415	G	24.671978	84.549813	Normal
7/7/20	13:25:0	19	0.1	340	10.1	3400	3815	G	24.672792	84.550235	Normal
7/7/20	13:25:34	19	0.1	300	10.1	3000	3415	G	24.673627	84.550605	Normal
7/7/20	13:26:10	19	0.1	320	10.1	3200	3615	G	24.674535	84.550823	Normal
7/7/20	13:26:45	19	0.1	330	10.1	3300	3715	G	24.675398	84.550958	Normal
7/7/20	13:27:0	19	0.1	300	10.1	3000	3415	G	24.676298	84.551077	Normal
7/7/20	13:27:20	19	0.1	340	10.1	3400	3815	G	24.67712	84.55143	Normal
7/7/20	13:27:56	19	0.1	350	10.1	3500	3915	G	24.677245	84.552322	Normal
7/7/20	13:28:0	19	0.1	260	20.2	2600	3015	G	24.677222	84.553315	Normal
7/7/20	13:28:0	19	0.1	190	20.2	1900	2315	G	24.677187	84.554325	Normal
7/7/20	13:28:31	19	0.1	230	20.2	2300	2715	G	24.67747	84.555218	Normal
7/7/20	13:29:0	19	0.1	270	20.2	2700	3115	G	24.677747	84.556143	Normal
7/7/20	13:29:6	19	0.1	190	20.2	1900	2315	G	24.678163	84.557003	Normal
7/7/20	13:29:6	19	0.1	270	20.2	2700	3115	G	24.678713	84.557592	Normal
7/7/20	13:29:41	19	0.1	230	20.2	2300	2715	G	24.67858	84.558568	Normal
7/7/20	13:30:0	19	0.1	260	20.2	2600	3015	G	24.6784	84.559545	Normal
7/7/20	13:30:17	19	0.1	270	20.2	2700	3115	G	24.678813	84.560252	Culvert
7/7/20	13:30:17	19	0.1	300	20.2	3000	3415	G	24.67967	84.560638	Normal
7/7/20	13:30:52	19	0.1	190	20.2	1900	2315	G	24.68047	84.56101	Normal
7/7/20	13:31:0	19	0.1	270	10.1	2700	3115	G	24.680962	84.56173	Normal
7/7/20	13:31:27	19	0.1	340	10.1	3400	3815	G	24.680762	84.562677	Normal
7/7/20	13:31:27	19	0.1	310	20.2	3100	3515	G	24.6805	84.563585	Normal
7/7/20	13:31:27	19	0.1	310	20.2	3100	3515	G	24.68058	84.56446	Normal
7/7/20	13:32:3	19	0.1	240	20.2	2400	2815	G	24.681435	84.564797	Normal
7/7/20	13:32:38	19	0.1	250	30.3	2500	2915	G	24.682197	84.565185	Normal
7/7/20	13:32:38	19	0.1	240	20.2	2400	2815	G	24.683105	84.565403	Normal
7/7/20	13:32:38	19	0.1	260	30.3	2600	3015	G	24.683918	84.565807	Normal
7/7/20	13:33:0	19	0.1	230	0	2300	2715	G	24.68479	84.566262	Normal
7/7/20	13:34:24	19	0.1	260	10.1	2600	3015	G	24.685613	84.566665	Normal
7/7/20	13:35:0	19	0.1	340	10.1	3400	3815	G	24.686458	84.566985	Normal
7/7/20	13:35:0	19	0.1	230	20.2	2300	2715	G	24.687313	84.567272	Normal
7/7/20	13:35:34	19	0.1	240	20.2	2400	2815	G	24.688147	84.56771	Normal
7/7/20	13:36:0	19	0.1	280	10.1	2800	3215	G	24.688415	84.56845	Normal
7/7/20	13:36:9	19	0.1	280	20.2	2800	3215	G	24.689152	84.569023	Normal
7/7/20	13:36:45	19	0.1	220	10.1	2200	2615	G	24.689965	84.56941	Normal
7/7/20	13:37:0	19	0.1	250	20.2	2500	2915	G	24.690857	84.569612	Normal
7/7/20	13:37:20	19	0.1	160	20.2	1600	2015	G	24.691757	84.569747	Normal
7/7/20	13:37:20	19	0.1	180	20.2	1800	2215	G	24.692645	84.56983	Normal
7/7/20	13:38:0	19	0.1	340	20.2	3400	3815	G	24.693548	84.5701	Normal
7/7/20	13:38:0	19	0.1								
Total Length			4.100								

$$Y = 0 * X^2 + 1.000 * X + 415.2$$

$$X = 2800$$

$$Y = 3215$$

(R) RURAL ROAD

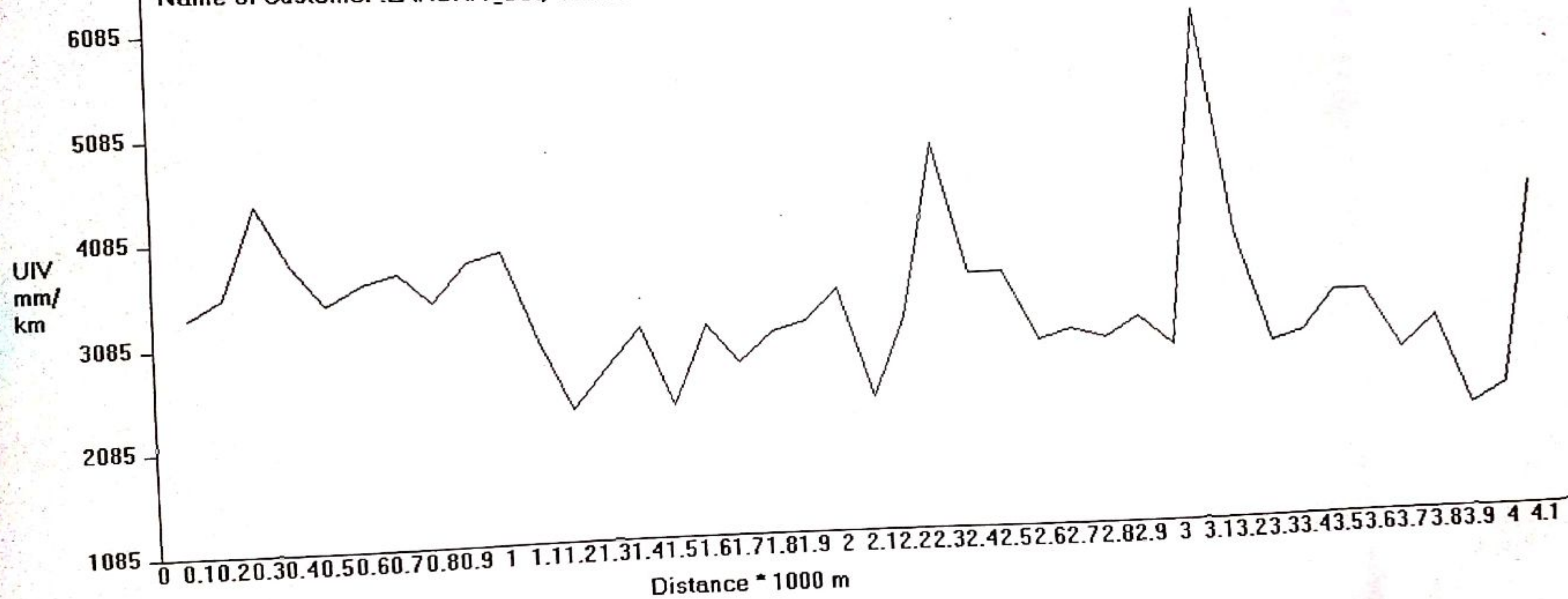
Good	Average	Poor
<4000	4001-5000	>5001

Sunil Kumar
10/7/2020
J.E

10.7.20
A.E

for
10/7/2020
E'E

File : C:\Users\BRRDA67\Desktop\aurangabad\07071424.Xls, Section No. :19, Eqn :test
 Name of Customer :LAHSHA_CO., Name of Work/ Road :G.T ROAD TO SAILAWA MAHUWAM, Lab Job number :



Sunil Kumar
 10/7/2020
 S.E.

[Signature]
 10.7.20
 A.E.

[Signature]
 10/7/2020