Shree Gobind Damodar Laboratory Pvt. Ltd.

(NABL ACCREDITED & ISO 17025: 2017 CERTIFIED LABORATORY)
Ward no.-56, Sadar, Kamalichak, Patna City, Patna, Bihar-800003

NABL

TEST REPORT

Issued To Site Engineer NCML KB PVT. LTD.	Report No.:	SGDL/REP/230123/07
	SRF No.:	SGDL/SRF/230123/01
	Sample Job Order No.:	SGDL/JO/230123/07
	Sample Receiving Date:	26/06/2023
	Reporting Date:	09/09/2023
Name of Customer/Client:	NCML KB PVT. LTD.	
Customer/Client Ref. No.: NOPL/SHIVAM CONSTRUCTION/QA-QC/CIVIL WORK/2023-24 Dated - 27-06-2023		
Agreement No.:	Nil	
Environmental Condition (Temperature & Relative Humidity):	26.7 °C & 69 %	
Sample Description:	Concrete Cube, Tunnel Wall 2nd Lift, Grade- M25.	
Location of Test:	At Lab, Permanent Facility	
Name of Work / Subject:	Construction of Civil & Associated works for option-3.	

Result

07 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	18.06.2023	26.06.2023	436.4	19.40	19.30	IS: 516 (P-1/Sec.1): 2021
			431.8	19.19		
			434.8	19.32		

28 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	18.06.2023	16.07.2023	687.3	30.55	30.75	IS: 516 (P-1/Sec.1): 2021
			693.1	30.80		
			695.4	30.91		

*** END OF REPORT ***

Checked By

Authorized Signatory

Remarks:

1. Any Deviations from Method: Nil,
2. Statement of conformity: Required ,3. A To which's Applied: Not Applicable 2.B Which Specs are Met/ Not Met: not Applicable, 3. Decision Rule: Applicable,
3. Opinions & Interpretation: Authorized Personnel: not Applicable
4. The Test Result Reported in this Report, relates to the sample tested.
5. Sample will be destroyed after 30 days from the date of issue of test report unless otherwise specified.
6. The Report can't be reproduced, except in full, without written permission on the Laboratory, can provide assurance that part of the report is taken out of context.

CIN: U73100BR2021PTC054372

Shree Gobind Damodar Laboratory Pvt. Ltd.

(NABL ACCREDITED & ISO 17025: 2017 CERTIFIED LABORATORY)
Ward no.-56, Sadar, Karmalichak, Patna City, Patna, Bihar-800009

NABL TC-11901

TEST REPORT

Issued To Site Engineer NCML KB PVT. LTD.	Report No.:	SGDL/RLP/270823/02
	SRF No.:	SGDL/SRF/270823/01
	Sample Job Order No.:	SGDL/JO/270823/02
	Sample Receiving Date:	23/06/2023
	Reporting Date:	09/09/2023
Name of Customer/Client:	NCML KB PVT. LTD.	
Customer/Client Ref. No.: NBPL/SHIVAM CONSTRUCTION/QA-QC/CIVIL WORK/2023-24 Dated - 27-08-2023		
Agreement No.:	Nil	
Environmental Condition (Temperature & Relative Humidity):	26.7 °C & 69 %	
Sample Description:	Concrete Cube, Ring Wall 3rd Lift, Grade- M25.	
Location of Test:	At Lab, Permanent Facility	
Name of Work / Subject:	Construction of Civil & Associated works for option-3.	

Result

07 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	15.06.2023	23.06.2023	429.2	19.07	19.04	IS: 516 (P-1/Sec.1): 2021
			422.8	18.79		
			433.1	19.25		

28 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	15.06.2023	13.07.2023	705.3	31.35	31.18	IS: 516 (P-1/Sec.1): 2021
			697.4	30.99		
			701.7	31.19		

*** END OF REPORT***

Checked By

Authorized Signatory

Remarks:

1. Any Deviations form Method: Nil,
2. Statement of conformity: Required ,2. A To which's Applied: Not Applicable 2.B Which Specs are Met/ Not Met: not Applicable, 3c Decision Rule: Applicable
3. Opinions & Interpretation: Authorized Personnel: not Applicable
4. The Test Result Reported in this Report, relates to the sample tested.
5. Sample will be destroyed after 30 days from the date of issue of test report unless otherwise specified.
6. The Report can't be reproduced, except in full, without written permission on the Laboratory, can provide insurance that part of the report is taken out of context

Shree Gobind Damodar Laboratory Pvt. Ltd.

(NABL ACCREDITED & ISO 17025: 2017 CERTIFIED LABORATORY)
Ward no.-56, Sadar, Kamalichak, Patna City, Patna, Bihar-800008

NABL

TEST REPORT

Issued To Site Engineer NCML KB PVT. LTD.	Report No.: SRF No.: Sample Job Order No.: Sample Receiving Date: Reporting Date:	SGDL/REP/23083/01 SGDL/SRF/23083/01 SGDL/JO/23083/01 11/06/2023 03/07/2023
Name of Customer/Client:	NCML KB PVT. LTD.	
Customer/Client Ref. No.: KBPL/SHIVAM CONSTRUCTION/QA QC/CIVIL WORK/2023-24		Dated - 27.05.2023
Agreement No.:	Nil	
Environmental Condition (Temperature & Relative Humidity):	26.7 °C & 69 %	
Sample Description:	Concrete Cube, Ring Wall 2nd Lift, Grade- M25.	
Location of Test:	At Lab, Permanent Facility	
Name of Work / Subject:	Construction of Civil & Associated works for option-3.	

Result

07 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	03.06.2023	11.06.2023	452.2	20.09	20.11	IS: 516 (P-1/Sec.1): 2021
			448/1	19.92		
			457.3	20.32		

28 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	03.06.2023	01.07.2023	720.6	32.03	31.93	IS: 516 (P-1/Sec.1): 2021
			711.3	31.61		
			723.4	32.15		

*** END OF REPORT***

Checked By

Authorized Signatory

Remarks:

1. Any Deviations from Method: Nil,
2. Statement of conformity: Required ,3. As to which's Applied: Not Applicable 3.Which Specs are Met/ Not Met: not Applicable, 3c Decision Rule: Applicable
3. Opinions & Interpretation: Authorized Personnel: not Applicable
4. The Test Result Reported in this Report, related to the sample tested.
5. Sample will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
6. The Report can't be reproduced, except in full, without written permission on the Laboratory, can provide [illegible] part of the report is taken out of context

Shree Gobind Damodar Laboratory Pvt. Ltd.

(NABL ACCREDITED & ISO 17025: 2017 CERTIFIED LABORATORY)
Ward no.-56, Sadar, Karmalichak, Patna City, Patna, Bihar-800009

NABL TC-11591

TEST REPORT

Issued To Site Engineer NCML KB PVT. LTD.	Report No.:	SGDL/RLP/270823/02
	SRF No.:	SGDL/SRF/270823/01
	Sample Job Order No.:	SGDL/JO/270823/02
	Sample Receiving Date:	12/08/2023
	Reporting Date:	09/09/2023
Name of Customer/Client:	NCML KB PVT. LTD.	
Customer/Client Ref. No.: NBPL/SHIVAM CONSTRUCTION/QA-QC/CIVIL WORK/2023-24	Dated - 27-08-2023	
Agreement No.:	Nil	
Environmental Condition (Temperature & Relative Humidity):	26.7 °C & 69 %	
Sample Description:	Concrete Cube, Ring Wall Final Lift, Grade- M25.	
Location of Test:	At Lab, Permanent Facility	
Name of Work / Subject:	Construction of Civil & Associated works for option-3.	

Result

07 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	04.08.2023	12.08.2023	457.2	20.32	20.28	IS: 516 (P-1/Sec.1): 2021
			452.2	20.10		
			459.4	20.42		

28 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	04.08.2023	02.09.2023	684.2	30.41	30.29	IS: 516 (P-1/Sec.1): 2021
			679.3	30.19		
			681.4	30.28		

*** END OF REPORT***

Checked By

Authorized Signatory

Remarks:

1. Any Deviations form Method: Nil,
2. Statement of conformity: Required ,3. A To which's Applied: Not Applicable 3.8 Which Specs are Met/ Not Met: Not Applicable 3.9 Decision Rule Applied:
3. Opinions & Interpretation: Authorized Personnel not Applicable
4. The Test Result Reported in this Report, relates to the sample tested.
5. Sample will be destroyed after 30 days from the date of issue of test report unless otherwise specified.
6. The Report can't be reproduced, except in full, without written permission on the laboratory, can be [illegible]

Shree Gobind Damodar Laboratory Pvt. Ltd.

(NABL ACCREDITED & ISO 17025: 2017 CERTIFIED LABORATORY)
Ward no.-56, Sadar, Karmalichak, Patna City, Patna, Bihar-800009

NABL TC-11051

TEST REPORT

Issued To Site Engineer NCML KB PVT. LTD.	Report No.:	SGDL/REP/270823/02
	SRF No.:	SGDL/SRF/270823/01
	Sample Job Order No.:	SGDL/JO/270823/02
	Sample Receiving Date:	03/08/2023
	Reporting Date:	09/09/2023
Name of Customer/Client:	NCML KB PVT. LTD.	
Customer/Client Ref. No.: NBPL/SHIVAM CONSTRUCTION/QA-QC/CIVIL WORK/2023-24 Dated - 27-08-2023		
Agreement No.:	Nil	
Environmental Condition (Temperature & Relative Humidity):	26.7 ºC & 69 %	
Sample Description:	Concrete Cube, Tunnel Slab, Grade- M25.	
Location of Test:	At Lab, Permanent Facility	
Name of Work / Subject:	Construction of Civil & Associated works for option-3.	

Result

07 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	25.07.2023	03.08.2023	448.1	19.92	19.96	IS: 516 (P-1/Sec.1): 2021
			452.3	20.10		
			447.0	19.87		

28 Days Compressive Strength

Sl. No.	Date of Casting	Date of Testing	Observed Load (KN)	Compressive Strength (N/mm²)	Avg. Compressive Strength (N/mm²)	Test Method
1.	25.07.2023	23.08.2023	692.4	30.77	30.74	IS: 516 (P-1/Sec.1): 2021
			689.3	30.64		
			693.0	30.80		

*** END OF REPORT***

Checked By

Remarks:

1. Any Deviations form Method: Nil,
2. Statement of conformity: Required ,3. A To which's Applied. Not Applicable 2.B Which Specs are Met/ Not Met
3. Opinions & Interpretation: Authorized Personnel: not Applicable
4. The Test Result Reported in this Report, relates to the sample tested.
5. Sample will be destroyed after 30 days from the date of issue of test report unless otherwise specified.
6. The Report can't be reproduced, except in full, without written permission on the Laboratory, can provide evidence that the [illegible]

Authorized Signatory

Test Report

b ID No – DK2023060627/01 URL No – TC105152200000052F Letter Date – 27/06/2023

stomer Name: - DeKirshna Laboratories Pvt.Ltd.

escription of Sample – Soil Make/Grade— NA Sample Quantity – 20Kg

mple Received Date --- 27/06/2023 Start Date of Analysis-- 29/06/2023 End Date of Analysis –03/07/2023

mple Condition --- OK Sample Plan & Procedure -- NA Report Issue Date --03/07/2023

vironment condition --- Temp --- 27±2°C, RH --- 65±5%.

Test Result

o.	Test Parameters	Units	Results	Method Reference
	Grain Size Analysis.			IS 2720(part-4):1985 RA-2020
	10mm	%	100	
	4.75mm	%	100	
	2mm	%	99.916	
	0.425mm	%	99.421	
	0.075mm	%	58.723.	
	Atterberg's limit			IS 2720(part-5):1985 RA-2020
	Liquid limit	%	39.30	
	Plastic limit	%	23.18	
	Plasticity Index	%	16.11	
	Light Compaction			IS 2720(part-7):1980 RA-2021
	M.D.D	Gm/cc	1.872	
	O.M.C	%	11.158	
	Heavy Compaction			IS 2720(part-8):1980 RA-2021
	M.D.D	Gm/cc	1.997	
	O.M.C	%	11.875	
	California Bearing Ratio %			IS 2720(part-16):1980 RA-2021
	2.5mm	%	2.76	
	5mm	%	2.45	
	Free Swell Index	%	8.33	IS 2720(part-40):1980 RA-2021
	Moisture Content	%	5.45	IS 2720(part-2):1980 RA-2021

Notes:

Terms & Conditions: 1. Test reports are valid only for the sample tested in our laboratory. 2. Samples will be stored / kept in our stores for 30 days from the date of testing and shall be destroyed thereafter without any intimation. 3. Samples tested are non-returnable until specified at time of sample submission. 4. Test report will not be valid for judicial purpose. 5. Total liability of our institution is limited to invoiced amount.

****End of Report****

DeKrishna Laboratories Pvt.Ltd
(Authorized Signatory)

DEKRISHNA LABORATORY
Ado-Apsa City Phase-I, Post-Basirhat, Belgachi, Basti, Basti (U.P.) 272601
Mobile: 7307064315, 9415173162, 9648998001, 8540655255
E-mail : dekrishnalaboratory@gmail.com

TEST REPORT

Report No: DKL/234

Date of Report : 08.05.2025
Start Date of Analysis : 08.05.2023
Date of Completion : 10.05.2023

Name and Address of Customer : M/S Shivam Construction

Ref No. : Latter dated, 07.01.2023

Sample Particulars
Material : Rebound Hammer, Testing at site – Tinich
Type of work : --
Grade/Type/Size : M-25
Loading : --
Date of Receipt : 08.05.2023
Any Other Information : Test method used – 13311 (Pt-2)-1992

No.	Location	Direction of Testing	Rebound Index	Average Rebound Index	Compressive Strength (Mpa)
.	Silo 4000 MT Raft	Horizontal	29,27,29,29,30, 30,27,28,29	29	24
.	Silo 4000 MT Raft	Vertical Downward	20,21,22,20,22, 22,22,22,20	21	18
.	Silo 4000 MT Raft	Horizontal	29,30,28,31,32, 31,31,35,30	31	28
.	Silo 4000 MT Raft	Horizontal	30,38,35,33,35, 30,30,32,38	33	30

Remark: - Rebound hammer method can not be held to be very accurate and probable accuracy of prediction of concrete Strength in a structure is ± 25 Percent.

******End of Report******

Subham
Authorized Signatory

DEKRISHNA BASTI LABORATORY

Warishali

DEKRISHNA LABORATORY

Add-[illegible] City Phase 1, Post [illegible], [illegible] Basti (U.P.) 272001

Mob.: 7307366315, 9415173162, 9648598001, 8549555255

E-mail : [illegible]@gmail.com

Test Report

Report No:	DKL/361/01/2023	Page:- 01 of 01
Description of Sample:	C.C. Cube M - 25	Date of Casting : 03-04-2023
Quantity :-	3 Nos. of Cube Size 150 x 150 x 150 mm	Date of Testing : 01-05-2023
Age of Cubes :-	28 Days	Date of Report : 01-05-2023
Location:	Silo 4000 MT Raft	
[illegible]e of Work :-	Constructin of civil & Associated Work for Option-3	
Agency :-	M/S Shivam Construction	
Issued to:-	NCML Basti Private Limited	

Test Data

Identification Mark of test Specimen	Cross Sectional Area mm²	Maximum Applied Load KN	Compressive Strength N/mm²	Average Compressive Strength N/mm²	Average Compressive Strength kg/cm²	Test Method as per IS:
DKL01	22500	576.6	25.63	25.97	264.84	IS: 516-1959 (RA-2018)
DKL02	22500	581.2	25.83			
DKL03	22500	595.3	26.46			

Remark:

Note :-

1. Results relate only to the sample (s) under test in as received and applicable parameter (s).
2. This test report shall not be reproduce wholly or in part and can not be used as an evidence in the Court of law without written approval of Dekrishna Laboratory, Basti.
3. The sample will be stored up to one month from the date of issue of test rep[illegible]
4. The Jurisdiction for any dispute with regards to the services/Report deliverd will be the court of Basti.

Subham

Authorized Signatuary

DEKRISHNA BASTI LABORATORY

Wanshah

DEKRISHNA LABORATORY
Adj-Apna City Phase-1, Post Mahawar, Belgari, Basti - Basti (U.P) 272001
Mob : 7307366315, 9415173162, 9648598501, 8840655255
E-mail : dekrishnalaboratory@gmail.com

Test Report

Report No:	DKL/340/01/2023	Page:- 01 of 01
Description of Sample:	C.C. Cube M - 25	
Quantity :-	3 Nos. of Cube Size 150 x 150 x 150 mm	Date of Casting : 03-04-2023
Age of Cubes :-	7 Days	Date of Testing : 10-04-2023
Location:	Silo 4000 MT Raft	Date of Report : 10-04-2023
Name of Work :-	Constructin of civil & Associated Work for Option-3	
Agency :-	M/S Shivam Construction	
Issued to:-	NCML Basti Private Limited	

Test Data

Identification Mark of test Specimen	Cross Sectional Area mm²	Maximum Applied Load KN	Compressive Strength N/mm²	Average Compressive Strength N/mm²	Average Compressive Strength kg/cm²	Test Method as per IS:
DKL01	22500	406.8	18.08	18.11	184.68	IS: 516-1959 (RA-2018)
DKL02	22500	399.5	17.76			
DKL03	22500	416.2	18.50			

Remark:

Note :-

1. Results relate only to the sample (s) under test in as received and applicable parameter (s).
2. This test report shall not be reproduce wholly or in part and can not be used as an evidence in the Court of law without written approval of Dekrishna Laboratory, Basti.
3. The sample will be stored up to one month from the date of issue of test rep
4. The Jurisdiction for any dispute with regards to the services/Report deliverd will be the court of Basti.

Subham
Authorized Signatuary

DEKRISHNA LABORATORY BASTI

NCML BASTI FCI SILO PROJECT

FIELD COMPACTION RECORD (CORE CUTTER METHOD)

ainage	Boundry wall side	Soil Classification	
te of Sampling		O.M.C.	12.8%
te of Testing	06/06/2023	M.D.D.	1.7929gm/cc
		LAYER NO.	1st layer RL- 86-35 250mm thicknes
me of Client	NCML		
me of Contractor	Shriram Construction		

No.		Unit	Test1	Test2	Test3
1	Empty Weight of Core Cutter	KG	945	945	945
2	Weight of Core Cutter+Soil	KG	2964	2933	2939
3	Weight of Soil	KG	2019	1988	1994
4	Bulk Density=(Weight of Soil/Vol.of Core Cutter)	KG/CM3	1.97	1.94	1.94
5	Dry Densuty = Bulk Density/1+W.C.	GM/CM3	1.71	1.70	1.71
6	Weight of Soil(Ww)	GM			
7	Dry Weight of Soil(Dw)	GM			
8	Water Content =(Ww-Dw)/Dw		15%	14%	14%
9	Diameter of Core cutter	CM	100	100	100
10	Height of Core Cutter	CM	130	130	130
11	Volume = (3.142/4)*D2*H	CM3	1021	1021	1021
12	Field Dry Density	GM/CM3			
13	Density Compaction = (FDD/MDD)x100		95.42%	94.96%	95.42%
14	Average Compaction			95.23%	
	Remarks				

FOR CONTRACTOR	FOR CLIENT
Vaishali	Mayur.

NCML BASTI FCI SILO PROJECT

FIELD COMPACTION RECORD (CORE CUTTER METHOD)

ampling	Railway Toside	Soil Classification	
esting	25/05/2023	O.M.C.	12.8 %
		M.D.D.	1.792 gm/cc
		LAYER NO.	2nd layer @ L 86.6 250 mm thickne
Client	NCML		
Contractor	Shivam Construction		

	Unit	Test1	Test2	Test3
Empty Weight of Core Cutter	KG	945	945	945
Weight of Core Cutter+Soil	KG	2931	2935	2945
Weight of Soil	KG	1986	1960	2000
Bulk Density=(Weight of Soil/Vol.of Core Cutter)	KG/CM3	1.94	1.94	1.95
Dry Densuty = Bulk Density/1+W.C.	GM/CM3	1.71	1.70	1.71
Weight of Soil(Ww)	GM			
Dry Weight of Soil(Dw)	GM			
Water Content =(Ww-Dw)/Dw		13%	14%	14%
Diameter of Core cutter	CM	100	100	100
Height of Core Cutter	CM	130	130	130
Volume = (3.142/4)*D2*H	CM3	1021	1021	1021
Field Dry Density	GM/CM3			
Density Compaction = (FDD/MDD)x100		95.42%	94.06	95.42%
Average Compaction			95.23%	
Remarks				

FOR CONTRACTOR	FOR CLIENT
Manishahi	Mayur.

NCML BASTI FCI SILO PROJECT

FIELD COMPACTION RECORD (CORE CUTTER METHOD)

Chainage	Railway Toside	Soil Classification	
Date of Sampling		O.M.C.	12.8 %
Date of Testing	25/05/2023	M.D.D.	1.792 gm/cc
		LAYER NO.	2nd layer @ RL 86.6
Name of Client	NCML		250 mm thickness
Name of Contractor	Shivam Construction		

Sl. No.		Unit	Test1	Test2	Test3
1	Empty Weight of Core Cutter	KG	945	945	945
2	Weight of Core Cutter+Soil	KG	2931	2935	2945
3	Weight of Soil	KG	1986	1960	2000
4	Bulk Density=(Weight of Soil/Vol.of Core Cutter)	KG/CM3	1.94	1.94	1.95
5	Dry Densuty = Bulk Density/1+W.C.	GM/CM3	1.71	1.70	1.71
6	Weight of Soil(Ww)	GM			
7	Dry Weight of Soil(Dw)	GM			
8	Water Content =(Ww-Dw)/Dw		13%	14%	14%
9	Diameter of Core cutter	CM	100	100	100
10	Height of Core Cutter	CM	130	130	130
11	Volume = (3.142/4)*D2*H	CM3	1021	1024	1021
12	Field Dry Density	GM/CM3			
13	Density Compaction = (FDD/MDD)x100		95.42%	95.23%	95.42%
14	Average Compaction				
	Remarks				

FOR CONTRACTOR	FOR CLIENT
Manishalv	Mayur

NCML BASTI FCI SILO PROJECT

FIELD COMPACTION RECORD (CORE CUTTER METHOD)

Chainage	Railway side	Soil Classification	
Date of Sampling		O.M.C.	11.875%
Date of Testing	15/07/2023	M.D.D.	1.997 gm/cc
		LAYER NO.	9th layer RL-88.25
Name of Client	NCML		
Name of Contractor	Shivam Construction	-	250 mm. thicken

S. No.		Unit	Test1	Test2	Test3
1	Empty Weight of Core Cutter	KG	945	945	945
2	Weight of Core Cutter+Soil	KG	2980	2977	2963
3	Weight of Soil	KG	2035	2032	2018
4	Bulk Density=(Weight of Soil/Vol.of Core Cutter)	KG/CM3	1.99	1.99	1.97
5	Dry Densuty = Bulk Density/1+W.C.	GM/CM3	1.04	1.03	1.03
6	Weight of Soil(Ww)	GM			
7	Dry Weight of Soil(Dw)	GM			
8	Water Content =(Ww-Dw)/Dw		4%	3%	3%
9	Diameter of Core cutter	CM	100	100	100
10	Height of Core Cutter	CM	130	130	130
11	Volume = (3.142/4)*D2*H	CM3	1021	1021	1021
12	Field Dry Density	GM/CM3			
13	Density Compaction = (FDD/MDD)x100		95.81%	96.74%	95.77%
14	Average Compaction			96.10%	
	Remarks				

FOR CONTRACTOR	FOR CLIENT
Varishalv	Maym.

NCML BASTI FCI SILO PROJECT

FIELD COMPACTION RECORD (CORE CUTTER METHOD)

Chainage	Boundary wall side	Soil Classification	I
Date of Sampling		O.M.C.	11.875 %
Date of Testing	12/07/2023	M.D.D.	1.997 gm/cc
		LAYER NO.	9th layer RL- 88.35 250 mm thickness.
Name of Client	NCML		
Name of Contractor	Shivam Construction		

Sl. No.		Unit	Test1	Test2	Test3
1	Empty Weight of Core Cutter	KG	945	945	945
2	Weight of Core Cutter+Soil	KG	2975	2957	2981
3	Weight of Soil	KG	2030	2012	2036
4	Bulk Density=(Weight of Soil/Vol.of Core Cutter)	KG/CM3	1.98	1.97	1.99
5	Dry Densuty = Bulk Density/1+W.C.	GM/CM3	1.04		1.04
6	Weight of Soil(Ww)	GM			
7	Dry Weight of Soil(Dw)	GM			
8	Water Content =(Ww-Dw)/Dw		4%	4%	4%
9	Diameter of Core cutter	CM	100	100	100
10	Height of Core Cutter	CM	130	130	130
11	Volume = (3.142/4)*D2*H	CM3	1021	1021	1021
12	Field Dry Density	GM/CM3			
13	Density Compaction = (FDD/MDD)x100		95.33%	94.85%	95.08%
14	Average Compaction			95.33%	
	Remarks				

FOR CONTRACTOR	FOR CLIENT
Harishchandra	Mayur.

NCML BASTI

NCML Basti FCI Silo Project

DOC No. : QMS/AGG/13
REV/0

SIEVE ANALYSIS - FINE AGGREGATE

rmat No.		Date	17/07/23
wner	NCML BASTI	Contractor	Shivam Construction Co.
mple Ref. No.:	01	Aggregate Source	Banda
sted at	Site Lab	Weight of Dry sample (w)	1000g

Sr. No.	IS Sieve Size (mm)	Weight Retained (Gms)	% Retained	Cumm. % Retained	% Passing	Accepted Limit as per IS:383-2016 table 9			
		a	b = a/w*100	c	d = 100-c	Zone-I	Zone-II	Zone-III	Zone-IV
1	10.0	0	0	0	100	100%	100%	100%	100%
2	4.75	69	6.9	6.9	93.1	90-100%	90-100%	90-100%	95-100%
3	2.36	82	8.2	15.1	84.9	60-95%	75-100%	85-100%	95-100%
4	1.18	179	17.9	32.7	67.3	30-70%	55-90%	75-100%	90-100%
5	0.60	143	14.3	47	53	15-34%	35-59%	60-79%	80-100%
6	0.30	369	36.9	82.9	16.1	5-20%	8-30%	12-40%	15-50%
7	0.15	105	10.5	94.4	5.6	0-10%	0-10%	0-10%	0-15%
8	0.075	51	5.1	99.8	0.2				
9	PAN	2	0.2	100					
	Total (w)	1000g							

Remarks: Results found is Zone II

Note:

(1.) Sand Grading is confirming to Zone - IInd

(2.) Silt & Clay Content in % by weight (% Passing Through 75 Micron X 100 / Total Wt. (w)) Acceptance Limit 3% max

(3.) A tolerance of 5% outside the limits is allowable for all sieve sizes except 600 micron.

	Contractor's Representative	NCML
Name	Warish Ali	Mayank Singh
Date	17/07/23	17/07/23
Signature	Warishali	Mayank

NCML BASTI

NCML Basti FCI Silo Project

DOC No. : QMS/AGG/09 REV/0

SIEVE ANALYSIS - COARSE AGGREGATE (NOMINAL SIZE 10mm)

Format No.:		Date	30/7/2023
Owner	NCML BASTI	Contractor	Shivam Construction Co.
Sample Ref. No.:	01	Aggregate Source	AHROURA.
Material Type	10mm	Tested at	Site Lab

Sr. No.	IS Sieve Size (mm)	Weight Retained (Gms)	% Retained	Cumm. % Retained	% Passing	Accepted Limit as per IS:383-2016 table 7	
		a	b = a/w*100	c	d = 100-c	e1 - For single sized aggregate	e2 - For graded aggregate
1	12.5 mm	0	0.	0	100	100%	NA
2	10 mm	198	9.9	9.9	90.1	85-100%	NA
3	4.75 mm	1647	82.35	92.25	7.25	0-20%	NA
4	2.36 mm	145	7.25	99.5	0.5	0-5%	
5	600 Micron	—	—	—			
6	300 Micron	—	—	—			
7	Pan	10	0.5				
	Total (w)	2000					

Remarks: Results found in Single Size agg.

Note:

(1) Weight of Dry sample (w) 2000..... Gms

(2) 5% over size aggregate, exceeding **Nominal Maximum Size** is allowable.

(3) Min wt. of sample to be taken for sieving 0.5 Kgs (As per IS 2386-1963 table IV)

(4) Min. wt. of sample, collected for testing shall be 6 Kgs (As per IS 2386-1963 table II)

	Contractor's Representative	NCML
	Warishali	Mayank Singh
Name	30/7/23	30/07/23
Date	Warishali	Mayank
Signature		

NCML BASTI

NCML Sonipat FCI Silo Project

DOC No. : QMS/AGG/11
REV/0

SIEVE ANALYSIS - COARSE AGGREGATE (NOMINAL SIZE 20mm)

ormat No.		Date	26/07/2023
hwner	NCML BASTI	Contractor	Shivam Construction Co.
ample Ref. No.:	01	Aggregate Source	AHROURA
Material Type	20 mm	Tested at	Site LAB

Sr. No.	IS Sieve Size (mm)	Weight Retained (Gms)	% Retained	Cumm. % Retained	% Passing	Accepted Limit as per IS:383-2016 table 7	
		a	b = a/w*100	c	d = 100-c	e1 - For single sized aggregate	e2 - For graded aggregate
1	40.0 mm	0	0	0	100	100%	100%
2	20.0 mm	299	14.35	14.95	85.05	85-100%	95-100%
3	16.0 mm	—	—	—	—	-	-
4	12.5 mm	1590	79.5	94.45	5.55	-	-
5	10 mm	19	0.95	95.4	4.6	0-20%	25-55%
6	4.75 mm	90	4.5	99.9	0.1	0-5%	0-10%
7	2.36 mm	—	—	—	—		
8	600 Micron	—	—	—	—		
9	300 Micron	—	—	—	—		
10	Pan	2	0.10	100			
	Total (w)	2000					

Remarks: Results found ok.

Note:

(1) Weight of Dry sample (w) - 2000 Gms

(2) 5% over size aggregate, exceeding **Nominal Maximum** Size is allowable.

(3) Min wt. of sample to be taken for sieving 02 Kgs (As per IS 2386-1963 table IV)

(4) Min. wt. of sample, collected for testing shall be 25 Kgs (As per IS 2386-1963 table II)

	Contractor's Representative	NCML
Name	Warish Ali	Mayank Singh
Date	26/7/23	26/7/23
Signature	@warishali	Mayank.

NCML BASTI	NCML Basti FCI Silo Project	DOC No. : QMS/RFI/01

Request for Inspection

RFI NO 08 Rev No. R3 Date:- 30/05/2023

Discipline: silo tunnel Raft 4000 MT

Location/Chainage Basti

Drawing No. STR/WD/BS/031

Inspection Date: 29/05/2023

Inspection Time:

Inspection Required For:- Inspection shuttering and steel bending

M25 ✓ Required material 22.11 m3 ✓

Accept / Rejected /Resubmited with Correction R/f as per drawing, wall r/f ok, V. Beam ok, Raw Material Available, Allow for Casting.

Comments:

	Contractor's Representative	NCML
Name	WARISH ALI	Mayank Singh
Date	30/05/2023	30/5/23
Signature	Warishali	Mayank

NCML BASTI | NCML Basti FCI Silo Project | DOC No. : QMS/RFI/01

Request for Inspection

RFI NO 09 | Rev No. R3 | Date:- 03/06/2023

Discipline: Silo half Ring wall 4000MT

Location/Chainage Basti

Drawing No. STR/WD/BS/31

Inspection Date: 02/06/2023

Inspection Time: 4:00 pm

Inspection Required For:- Inspection shuttering and steel binding M25 Grade concrete required ~~12.4 M3~~ 14.

Accept / Rejected /Resubmited with Correction Ring Wall 2nd lift Boundary Wall Side, R/f as per drg., formwork ok, Raw Material Avail.

Comments: 31.1 x 0.4 x 1.2 → 14.928 cum

Cube Mould - 12 NOS

~~Allow~~ for casting.

	Contractor's Representative	NCML
Name	Warish ali	Mayank Singh
Date	03/06/2023	03/6/23
Signature	Warishali	Mayn

NCML BASTI	NCML Basti FCI Silo Project	DOC No. : QMS/RFI/01

Request for Inspection

RFI NO 11 Rev No. R3 Date:- 15/06/2023

Discipline: Silo half funnel/Ring wall

Location/Chainage Basti

Drawing No. STR/WD/BS/031

Inspection Date: 14/06/23

Inspection Time: 3:pm.

Inspection Required For:- Inspection shuttering and steel bainding M25 Required material 11.16 M3

cept / Rejected / Resubmited with Correction Boundary Wall side Ring Wall casting, R/f as bel drg.. Formwork Ok, Raw Material Avail. Above for Cast.

nents: 31.1 x 0.4 x 0.9 = 11.196 m3

Cube Mould - 12 Nos.

	Contractor's Representative	NCML
	WARISH Ali	Mayank Singh
	15/06/2023	15/06/23
	Warishali	Mayank

NCML BASTI	NCML Basti FCI Silo Project	DOC No. : QMS/RFI/01

Request for Inspection

RFI NO 13 Rev No. R3 Page 01/02

Discipline: Silo half Ring wall 4000 MT. Date:- 22/06/2023

Location/Chainage Basti

Drawing No. STR/WD/BS/031

Inspection Date: 21/06/23

Inspection Time: 11 AM

Inspection Required For:- Inspection for shuttering and steel. M25 required Concrete: 6 M3

Accept / Rejected / Resubmited with Correction Railway Side Ring wall Casting. R/f as per drg. formwork ok. Raw Material Available.

Comments: Cube Moud. 6 NOS
Allow for Casting.

	Contractor's Representative	NCML
Name	Warishali	Mayank Singh
Date	22/06/2023	22/6/23
Signature	Warishali	Mayn