Format for information to SQM for Inspection of PMGSY Work PART I- Work Information (To be filled-up by PIU)

CENE	Work is Ongoing Completed
	7.01 12 Cario
1.1.	Date of Inspection: DD MM YY
1.2.	Name of State Outline 14
1.3.	District: S. Block: Son Payeou Norgan Pol Singh
1.4.	Name of Poods F
1.5.	Package No.: GTSNY to Soundedia
1.6.	Length:Km Flexible Pavement,Km. CC/other Pavement
Total.	CisuKm
1.7.	Estimated Cost (As cleared by GOI): Rs. Lakh
1.8.	Technical Sanction Cost: Rs. 37.75 Lakh
1.9.	The Work is a Case of: New connectivity Up gradation
1.10.	Terrain Plain Rolling Hilly
1.11.	Date of Start of the Work: 06 12 18
1.12.	Stipulated Date of Completion: 05 06 19
1.13.	Actual Date of Completion (if work completed):
2. Program	PHYSICAL PROGRESS: (In case of On going works only) Construction

2.	PHYSICAL PROGRESS: (In case of On goin	g works only)	Construction
Prog	ramme and Physical Progress:		

Item	Completed	Dates for	Start	Completion	Delay in
	percentage of Item	completion	Date	Date -	Months
Earth Work	80%	Due			
•	80%	Actual		-	Types y a
CD Works	- electrical and a second a second and a second a second and a second a second and a second and a second and a second and	Due			
		Actual	_		
Sub base i/c	Tarl	Due			
Shoulders	70%	Actual			
Base Course (Non	A-	Due			
Bitu.)	14	Actual			1
Base /Wearing	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Due			
Course(Bitu.)		Actual			
CC Pavement		Due			
CC l'avement		Actual			
Signage etc		Due			
DiBinge ore		Actual			

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3. QUALITY CONTROL:

3.1. Location of Field Laboratory:

3.2. Quality Control Register Part-I is maintained by: Agency

3.3. Quality Control Register Part-II is maintained by: PTU

4. INSPECTIONS BY NQM, SQM or SENIOR OFFICERS AND ACTION TAKEN:

Inspection by NQMs, SQMs and senior (i.e. SE or CE) departmental officers and action taken statement:

Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
la la			
			-51 May 1
. 9 1			
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parameter and the second			

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Report of State Quality Monitor (SQM) PART II— Observations of SQM for Ongoing/Completed Work

(To be filled-up by SQM, use additional sheets, if required.)

Stage of Work: I II III

1. SETTING OUT AND WORKING DRAWING: For all stages of work

#	marks @ 4	Exact Locations of the Bench Marks	referenced with Marker	prepared Working Drawing for the work

Grading: Grade: S SRI W If this item is graded SRI/U, write clear reasons and suggestions for improvement:

2. SITE CLEARANCE AND GRUBBING: For Stage I of Work

Grubbing being done	available from scarifying existing work or clearing operations	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
properly (Y/N)	reused (Y/N)	

Grading: Grade S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:

NIA

172912 1K

QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all 3. stages of work
Observations about Field Laboratory:

#	Whether Field laboratory Established (Y/N)	List the e available.	quipments	Whether adequate Equipments as per requirement of work are available and are being used. (Y/N)		
	N			N		

Observations about Mandatory Tests - Detail out the quantities of various items of works and list the tests required. (Refer to abstract of QC Register Part-I)

#	Item of Executed	Work	Quantity	Name of Test	No. of Tes required	ts No. of Tests Conducted by PIU/Contractor
_						
			•			
				- Pag 1	(A) 1 0	
			No. of the Control of	Control of the Contro		
				_ :		
	•		10.0			1
•				***	<u> </u>	
	a ⁽¹⁾ 1			a cyles :		
_						
-	-				- 1 1	

#	quantities whether all	Whether QC Register Part I maintained as per provisions. Yes Partly No	Whether QC Register Part II maintained and test results monitored as per provisions. Yes Partly No
	J		

Grading: Grade:	S	SRI	W	If this	item	is	graded	SRI/U,	write	clear	reason	s and
suggestions for imp	rov	emer	ıt:									

4. GEOMETRICS: The SQM should take at-least two measurements in 1 Km length and if it is found that the roadway and carriageway is inadequate SQM may take more observations:

Observations -Road way width, Carriage way and Camber.

Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
150	1 5.30m	3'80m	3.5%	4. 46	2 - 1	7 7 7	
					r : : : : : : : : : : : : : : : : : : :	-	
			1	9-7-1	e ¹ L		

Observations - Super-elevation and Extra Widening at curves.

Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
		745.7	ļ ",	•	
			ac eq	v	
					4 .

	- (Ph. 25)			
Grade: 8 U	If this item is graded	U, write clear reason	ons and sug	ggestions for
improvement:	l i	,		
				× •
· [60]		· · · · · · · · · · · · · · · · · · ·		
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77				

OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

5. Earthwork:

Observations -Quality of Material for Embankment/ Sub-grade:

#	Location (RD) On Visual Classification identify the Group Symbol and write		Quality of material is acceptable. (Y/N)
	150m	Aleuralysoft	T
	ga.		
	a company	Land Control of the second	
		Company of the control of the contro	

Grade: uggestion	ns for impro	I If	this item is	s graded U, writ	e clear reasons	and
bservatio	ii	anship		ikment and Sul		
(RD) (As	s per ord)	Field Moisture Content	Field Density kN/m ³	pree of Compac Dry Density kN/m ³	
	-			,		
	, ,	-124		1 1 1 1		
-		-				*
Grade: improven		If this ite	em is gradeo	d U, write clear r	easons and sug	gestions for
	on – Side sl		d profile:	Slopes	Whether profi	le is
	700		sfactory (Y		Satisfactory (
	es de la fin		î a	4.5		
7 T		-0-1-1 p-1				with the case
P 1-	1 1	,	was all year			
	· · · · · · · · · · · · · · · · · · ·					
		0.00		* 1150	1000 4 4 4 4 4 4	

Observations - Earth work in Hilly/Rolling terrain or high Embankments:

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Adequate slope protection works executed. (Y/N)	Formation is properly
	y 12 2 .		1	
			2	

Observations - Longitudinal Gradient in case of road in hilly/rolling terrain:

				8	
Ref. Between RD& RD	Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient	S/U
		interior in	1°		
e emi					
				2)

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions	for
y and the second se		

6. Sub-Base:

Observations - Quality of Material and Workmanship:

#	Location (RD)	Confirms to Grading. (Y/N)	Suitable from plasticity angle. (Y/N)	Whether compaction is adequate. (Y/N)	Observed Thickness of Layer (in mm)	Prescribed Thickness provided (Y/N)
	150 m	Ν.		N	90 mm	N
		-				

Grade: S V for improvement:	If this item is graded U, write clear reasons and suggestions
	Jay particles are more
Not 1403	
W To the second	

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	Thickness is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	Filler material is non-plastic to desired extent. (Y/N)	Volume of filler material percent of course aggregate	Whether adequate compaction is done. (Y/N)
				/A			

Observations - Surface evenness: Surface evenness in about 200 m critical representative length of completed WBM:

NOW

Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

NIA

8. Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc including Seal Coat: Observations - Quality of Material and Workmanship of BT Layer (in case of ongoing works):

Observations about level of cleanliness of WBM surface prior to application of bituminous layer. (if work is ongoing observe the surface. If BT layer laid, assess by carefully removing the BT layer.):

N/m

Observations about Quality of Prime Coat and Tack Coat with respect to quality of material and workmanship - Visual Observation - if work is ongoing:

NIN

In case of PMC/RM/MPM/ Seal Coat

#	Location (RD)	Whether Course Aggregate confirms to grading. (Y/N)	Whether the binder is of approved grade. (Y/N)	Write Mixing Temperature and whether it is in permissible limits. (Y/N)	Write Laying Temperature and whether it is in permissible limits. (Y/N)
			. W		
-			NIV		
			8 E/s	Ī	
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Wagners

	de: S U	If this item	is graded U,	write clear r	easons and suggestio	ns f
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				, 'Q		
	•					
Obe	omnotion-	***	5,			-
wor	ks):	Workmanshi	p of BT layer P	MC/BM/M	PM (in case of comple	etea
#	Location		nickness	Wh	ether surface evenness	- is
	(RD)	Thickness in	and the first the state of the	kness with	n acceptable limits. (Y	
		mm	is adequate. (Y/N)		V I
		,				
	-					
			. 11 9 3		* \$1-	
			- 2-		ļ.	
Gra	ade: S U	If this its	em is graded II			
	provement:		on is graded o,	write clear re	easons and suggestions	for
	•					
			N/18	1	· · · · · · · · · · · · · · · · · · ·	
			Ø,			
1.54				1 24	2	i
9.	Observation	is - Quality of	Shoulders:		1	
#	RD o	of Thickness	Whether	Whether q	uality Whether Should	dayo
1	observation	of layer in	quality of the	of compa		

#	RD of observation		1	of compaction	Whether Shoulders being constructed
	Par	mm	material is acceptable. (Y/N)	workmanship is acceptable.(Y/N)	simultaneously with sub-base and base course (Y/N)
		Should	ers ne	eded co	mbachon
		1			

10. Cross Drainage Works: Observations - Quality of CDs:

#	RD at which CD is located	Type of CD	Whether quality of the material is acceptable. (Y/N)	Whether quality of workmanship is acceptable. (Y/N)
C.		The state of the s		
-				
	\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Grade: S SRI	U If this item	is graded SRI/U, write	clear reasons and
suggestions for impr	rovement:		
a tagan		•	
Sq. 21 1 1			2 20

11. Side Drains and Catch water Drains: Observations:

	#	Reference of RDs where side drain constructed.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)
•	,	1	N/A	

Grade: S SRI U suggestions for improvement	If this item is graded SRI/U, write clear reasons and
	NIO

12. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains:

#	Reference of		Thic	kness	General		General
	RDs, CC/SR Pavements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	quality material acceptable. (Y/N)	of is	quality of workmanship acceptable(Y/ N)
			- 11 15 - 14 - 15 - 15 - 15 - 15 -	H. S. Destr.			
							- 3- 1
			NI	W -	·		

Comments about adequacy of face/main walls, wings and retaining walls:

		* 1
	N/8	
•		

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	NOCO

13. Road Furniture and Markings

Observations - Item No. 14 a: Quality Road Furniture and Markings:

Citizen Information Board Fixed:

Yes	No	
Yes	No	/

Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

Observations - Quality Road Furniture and Markings:

13.1.1. Logo Boards Fixed:

Yes No

13.1.2. 200m. Stones fixed:

13.1.3. 1 Km. Stone fixed:

Yes No

13.1.4. Guard Stones fixed on Curves:

Yes No

13.1.5. Mandatory and Cautionary Signage

Yes No

Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

N/A

- 14. General Observations of SQM, (including the observations made during the interaction with PIU staff and Contractor's/ Consultant's Engineers):
 - 14.1. Observations about deficiency in project preparation (Give detailed observations about deficiencies in general and items which have been left but are required as per site conditions):

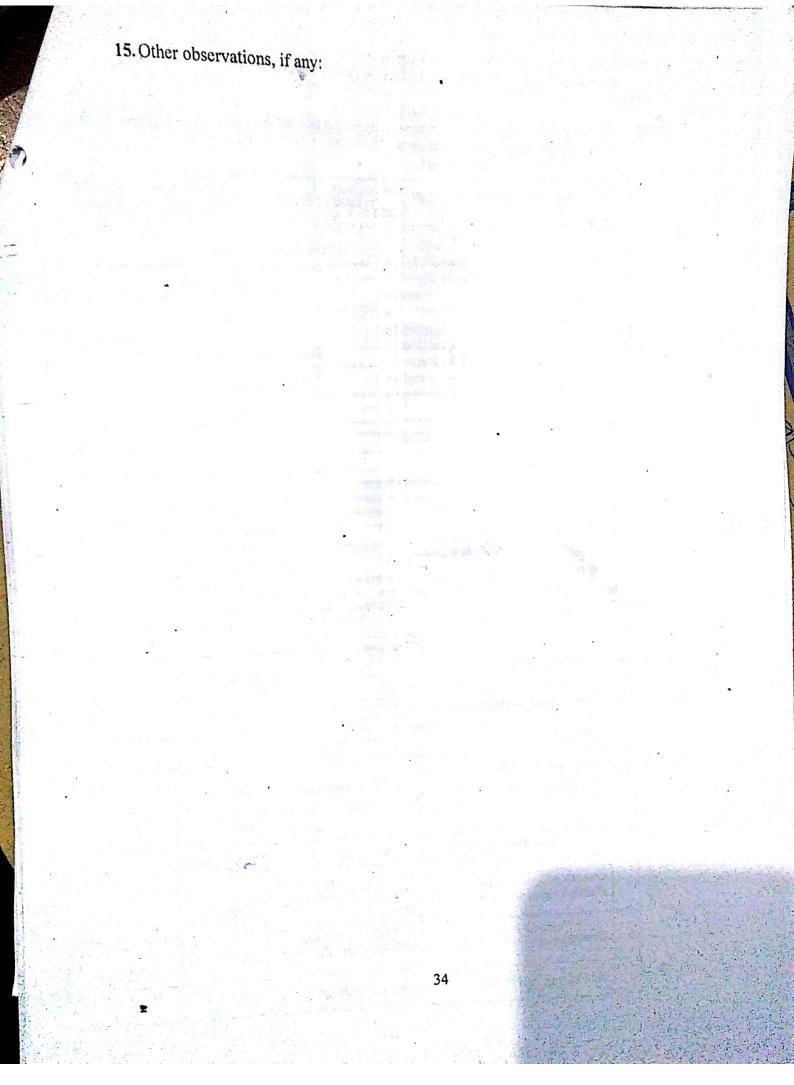
VI29.12'14

14.2. Whether the work has been completed/is in progress as per work programme or the delay has occurred. If delay has occurred, whether the liquidated damages have been withhold or recovered:

14.3. Whether the work has been completed within the sanctioned cost, if not, what is the action taken by the PIU (in case of complete works):

14.4. Observations about the action taken by the PIU on the observations of inspecting officers including SQMs and NQMs. (Clearly offer comments about the action taken on the observations of Departmental Officers, State Quality Monitors and National Quality Monitors).

14.5. Comments about difference in observations made by NQMs/SQMs in earlier inspections (the NQM shall study the earlier inspection reports of NQMs / SQMs, if any and offer his clear comments about the differences in observations, if any).



16. Quality Grading of items and sub-items of work: The grading of every sub-item and item of work is given below.

#	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades
1	2	3	4	5
	Item 1 – Setti	ng Out and Working Dra	wing	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	
b	Availability of Working Drawing	All Stages	S/SRI/U	
		Item Grade	s/sri/U	
	Item 2 – Si	te Clearance and Grubbin	ng	
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	
	Item 3	- Quality Arrangements		4
a	Quality Arrangements .	All Stages	S/SRI/U	and the second s
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	3
c	Maintenance of QC Registers	All Stages	S/SRI/U	A CONTRACTOR OF THE PARTY OF TH
	· W	Item Grade	S/SRI/U	
54	It	em 4 – Geometrics	,	
a	Road way width	2 per Km in every inspection	S/U	
b	Carriageway width	2 per Km in every inspection	S/U	
c	Camber	2 per km	S/U	
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	
		Item Grade	S/U	
	Item 5A - Earth Work	and Sub-grade in Embanl	ment/ Cutting	
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 per km in Stage III	S/U	

1	Tiem 5B - Earth Wo	rk in Cutting in Hilly/ Rol	ling Tannal	
	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	
	Adequacy of Slope Protection	All Stages - In general	S/U	
	Upon completion of formation cutting, dressing, traffic worthiness	At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U	Page -
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	•
		Item Grade	S/U	
		Item 6 - Sub-Base		•
	Quality of Material	and the second		
a	Grain Size	In Stage- II or III, 1 per	S/U	
b	Plasticity	km	S/U	
c	Compaction	In Stage- II or III, 1 per km	S/U	
d	Total Thickness of Layer	2 per Km	S/U	
		Item Grade	S/U	•
	Item 7 - Base C	Course – Water Bound Ma	cadam	
а	Grain Size of Course Aggregate		S/U	
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, 1 per km	S/U	
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	
e	Thickness of every layer of WBM.	2 per Km	S/U	
y 14,		Item Grade	S/U	

			 the Royal Post PR. 	
	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	
	Quality of Material - Concrete, Stone/-brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	
	tem 10 - Cross Drainage Works	s – Causeways of all spans : span.	and Culverts u	pto 6 m.
	n Grade		S/SRI/U	
	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
)	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	
1	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	
		Item 9 - Shoulders		
•	1 9 1	Item Grade	S/U	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	
f	Thickness of layer	2 per Km	S/U	
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
ď	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	1 test on the day of inspection	S/U	
c	Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work	l test on the day of inspection	S/U	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	

T	nem 11 - Side	Drain and Catch Water	Dani'.	A STATE OF THE PARTY OF THE PAR
1	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
		Item Grade		
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pakka Desir	the state of the s
a -	Quality of Material - Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III,1 per 100 m. Length of Pavement	S/U	*
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	and the second second second second second
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
	esta del	Item Grade	S/U	and the second s
	Item-13 - Ro	oad Furniture and Markin	ıgs	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/Ù	
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	
c	Whether the information in boards is given in local language.	Stage-I and III	s/u	
115	3 08 1 4 5	Item Grade	S/U	

17. Overall Grading of Work: The overall grading calculated on the basis of item and sub-item wise grading is given below:

Item No.	em No. Sub Item for Observation			
Item No 1	em No 1 Setting Out and Working Drawing			
Item No 2	Site Clearance and Grubbing	-		
Item No 3	Quality Arrangements	U		
Item No 4	Geometrics	S		
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	570		
Item No 5 B	Earth Work in Cutting in Hilly/Rolling Terrain.	をデート		
Item No 6	Sub-Base	U		
Item No 7	Base Course - Witer Bound Macadam			
Item No 8	Bituminous Layer - Pramix Carper (PMC)/ Surface Dressing (SD)			
ltem No 9	Shoulders			
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	_		
Item No 11	5ide Drain and Catch Water Drain	-		
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains			
Item No 13	Road Furniture and Markings	U		
	Overall Grading	Un /		

Signature:

Name:

Date:

Ryeer Noyan Pd Sight

Superintending Engineer R.W.D. (W), CIRCLE DARPHANGA

OFFICE OF THE EXECUTIVE ENGINEER RWD, REGIONAL LABORATORY, DARBHANGA (BIHAR)

RESULT OF PHYSICAL TEST FOR GRADATION OF COARSE AGGREGATE

1. Name of the Schome Port CV Door To	SOLUSE AGGILLONIE
1. Name of the Scheme PMGSY ROAD TD SAMDHULIA	Name of the works Division Darllaga - 2
2. Package No/Agreement No G. TS ハソ	Name of the circle
3. Nature of the work) Darlary a
4. Nature of the Sample	Name of the Agency
5. Date of Sample Collection	
CI No.	The Control of the Co

Sl.No.	AIV		Flakiness index		Water Absorption		Remarks
	Test Value	Required Value (MAX)	Test Value	Required Value (MAX)	Test Value	Required Value (MAX)	
	19 = ==						
- 1		-				,	

Weight of sample taken 26775 (In Not)

Sl. No	I.S. Sieve	Wt. of	% of	Cumulative	% of	Required	Remarks
	size/	sample	weight	of Wt	weight	value in %	
	Designation	retained in	retained	retained	passing	-	
		Kg	1969	- ",,			
53 mm	53mm	0	0			100	
M. 77		, ,					1 10
7	26.5mm	7587	28.33	58.33	71.67	50-80	yn feet to
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	4.45mm	7054	26.34	54.67	45.33	12-32	
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