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

GEN	ERAL: Work is Ongoing Completed
1.1.	Date of Inspection
1.2.	Name of State Quality Monitor:
1.3.	
1.4.	Name of Road:
1.5.	Package No.: MM614 to Parthrakhiruxabase
1.6.	Length: Km Flevible P
Total	Length:Km Flexible Pavement,Km. CC/other Pavementm. =
1.7.	Estimated Cost (As cleared by GOI): Rs. Lakh
1.8.	Technical Sanction Cost:  Rs. 19.4 S 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: 03/0 2/8
1.12.	Stipulated Date of Completion: 0 2 0 4   2019
1.13.	Actual Date of Completion (if work completed):
<b>2.</b> Progra	PHYSICAL PROGRESS: (In case of On going works only) Construction mme and Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start	Completion Date	Delay in Months
Earth Work	80	Due	2000	Duto.	IVIOITUIS
		Actual	). : i		
CD Works		Due			
	*	Actual	7. 1	1	7
Sub base i/c	90.1	Due	F-7		
Shoulders	-10)	Actual		1	
Base Course (Non	0.1	Due	4		-
Bitu.)	90).	Actual	1		
Base /Wearing		Due	N.		•
Course(Bitu.)		Actual			
CC Pavement	1 1	Due			
	and the second s	Actual			
Signage etc	70'/	Due			

1/29.12.0

#### 3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory:
- 3.2. Quality Control Register Part-I is maintained by:
- 3.3. Quality Control Register Part-II is maintained by:

## 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
	A Print Comment by	The state of the state of the state of	
	L. Sala		
ribo. "	P Yb.	12	
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E - 6 1.00			
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		\$1.5 1.54	
		\$1.6 12.5 12.5	

Name and Signature of the Head of PIU, Date: 25 1218

## 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

	Bench.	Locations of the Bench Marks	Whether Center Line of Carriage Way accurately established and referenced with Marker Pegs and Chainage Boards (Y/N)	prepared Working Drawing for the work
100	Principle of the Paris of the P			7302

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 as per DPR and Material obtained is	scarifying existing work or clearing operations can be salvaged and	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
	properly (Y/N)	P(A	Trained a generalization and

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

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

#	Whether Fiel laboratory Established (Y/N)	List the available		Whether adequate Equipments as per requirement of work are available and are being used.  (Y/N)
	N		•	1 m

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 Tests required	No. of Tests Conducted by PIU/Contractor
			101	dan	کے	
			1000			
			,			. w
		3 1	Y			
	· · ·			** 1		

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

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

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

Observations -Road way width, Carriage way and Camber.

Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
5.20m	3.75m	3.5%				Depute Green com primero color de celebro e el green color
	Width (m)	Width way Width (m) (m)	Width way Width in % (m)	Width way Width in % RD (m)	Width way Width in % RD Width (m)	Width way Width in % RD Width way Width (m) Width (m)

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)
rwi ir i		and the second s		*	

	Grade: 8 U improvement:	If this item is graded	U, write clear	reasons and suggestions for
For groups to the first the second se	· · · · · · · · · · · · · · · · · · ·			
	e in groups of the Co			

#### 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)	
	54m	Accural Soil	4	
			And the second s	

	-	S U r improvem		s graded U, writ	e clear reasons	s and
	•					
			1			
		-				
bser	vation –	Workmans	hip for Emba	nkment and Sul	o-grade Const	ruction:
L	ocation	MDD kN/	m <sup>3</sup> Field	Deg	gree of Compac	ction
	(RD)	(As per record)				
-						
		-	•		2	,
			tel discount	1 18 11 11	<u> </u>	tale I dia
					(23)	10
						10 a
-~	de: S	U If the	ns hem is grade	ed U, write clear	icasons und sag	Sections for
Gra imp	rovemen	::				
Obse	ervation -	– Side slope	es and profile:	Slopes	Whether pro	
imp	ervation -		es and profile: Whether Side Satisfactory (	Slopes Y/N)	Whether pro Satisfactory	
Obse	ervation -	– Side slope	Whether Side	Slopes Y/N)		
Obse	ervation -	– Side slope	Whether Side	Slopes Y/N)		
Obse	ervation -	– Side slope	Whether Side	Slopes Y/N)		
Obse	ervation -	– Side slope	Whether Side	Slopes Y/N)		

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

#	 Cut Slopes & Profile, whether appears to be stable. (Y/N)	Adami	
, ,			•
	the text		
	1		

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

Ref. Between RD& RD	Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient	S/U
_					
	2.0				

Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	The same of the sa
2	

#### 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)
	54m	N		N	Loomm	7
			1			
				Wall of		
1 /						
200	2 3/4	Harry V.		A CONTRACTOR OF THE PARTY OF TH		112/0/19

Grade: S If this item is graded U, write clear reasons and suggestions for improvement:
clay lastles are more.
Test report attached

#### 7. Base Course:

#### Observations- Quality of Material and Workmanship of WBM:

	#	Location		Thickness	Aggregate	Filler	Volume of	Whether
		(RD)	of each	is	confirms to	material is	filler	adequate
		(142)		adequate.	Grading	non-plastic	material	compaction
			WBM	(Y/N)	(Y/N)	to desired	percent of	is done.
		e and the second	(mm)			extent.	course	(Y/N)
					Pro- Angli	(Y/N)	aggregate	
		54 m	75mm	4.	7	<b>&gt;</b> T		
-		-						
			1					1
							·	
- 1								

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

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

Gradestow is not as per specification

1081 Reportational,

8. Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc including Scal 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.):

NA

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

NO

In case of PMC/BM/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)
		en e	*110		
	7 7 2 1	value of the	10/10		
		20 mg 4 %	3	i.	
	Jan	de de			

W. a. o

Grade: S If this item is graded U, write clear reasons and suggestions for improvement: NIA Observations - Workmanship of BT layer PMC/BM/MPM (in case of completed works): Location Thickness Whether surface evenness is (RD) Thickness in Whether thickness within acceptable limits. (Y/N) mm is adequate. (Y/N) Grade: | S If this item is graded U, write clear reasons and suggestions for improvement: 9. Observations - Quality of Shoulders: Thickness Whether Whether quality Whether Shoulders observation of layer in quality of the compaction being constructed mm material workmanship is simultaneously acceptable. acceptable.(Y/N) with sub-base and (Y/N)base course (Y/N) Shoulders are not constructed Si'multonously welch Subtowe and after Som length No shoulder found. Road

## 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
1 2			2011	
		1	C V	
	•			1 m

Grade:		SRI		If this item is graded SRI/U, write clear reasons	and
suggestion	is fo	r impre	oveme	ent:	1
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				$\mathcal{N}/\mathcal{A}$	
1					
Se jæ				Fig. States Spring and an experience of the second	
	an .			The second secon	

### 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			
12 %			
1 4	A Company of the Comp	 1 11.	

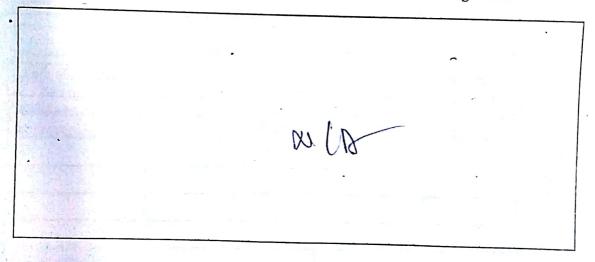
Grade: S SRI U suggestions for improvement	If this item is graded SRI/U, write clear reasons and ent:
	MA

1873. V. A

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

#	Reference of RDs, CC/SR	RD at which	Thic	kness	General		General
	Pavements	observati	Thickness in mm	Acceptable	quality material	of is	quality of workmanship
	provided.	on made.	111 111111	(Y/N)	acceptable.		acceptable(Y/
	- 2				(Y/N)	-	N)
		1			1.0	$\dashv$	
				10 (1)		+	
				U K	)	+	
			4.			+	

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



Grade: improvem	S inent:	U	If this	item	is gra	aded U	, write	clear	reaso	ons an	d sug	gesti	ions f	for
						•								
					0	3(8								
	1													

## Road Furniture and Markings

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

Citizen Information Board Fixed:

Yes No

Grade: S U improvement:

If this item is graded U, write clear reasons and suggestions for

#### Observations - Quality Road Furniture and Markings:

- 13.1.1. Logo Boards Fixed:
- 13.1.2. 200m. Stones fixed:
- 13.1.3. 1 Km. Stone fixed:
- 13.1.4. Guard Stones fixed on Curves:
- 13.1.5. Mandatory and Cautionary Signage

Yes	No
Man	Ma

Yes No

Yes No

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

- 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):

32

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:

worde in progresso

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):

NA

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).

NIA

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).

NIM

15. Other 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	e Awarde Grades
1	2	3	4	5
	Item 1 – Set	ting Out and Working D	rawing	
а	Bench Mark and Centre Line	All Stages	S/SRI/U	1.
b	Availability of Working Drawing	All Stages	S/SRI/U	
	M. Carlina 12 and	Item Grad	le S/SRI/U	
	Item 2 – S	ite Clearance and Grubl	oing	
а	Site Clearance and Grubbing	Stage-I	S/SRI/U	
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
	A Property of the second	Item Grade	s S/SRI/U	
	Item 3	- Quality Arrangements		1
а	Quality Arrangements	All Stages	S/SRI/U	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	
c	Maintenance of QC Registers	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	
	It	em 4 – Geometrics		
а	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	
đ	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	
1	o the same and the	Itém Grade	.S/U	
	Item 5A - Earth Work a	nd Sub-grade in Embank	ment/ Cutting	
a	Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	
<b>D</b>	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	
- 1	Side Slopes and Profile	2 per km in Stage III	S/U	Control of

e de la composition della comp	Item 5B - Earth W	ork in Cutting in Hilly/ Ro		
	Stapility and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	414
}	Adequacy of Slope Protection	All Stages - In general	S/U	
3	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	
1	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	
		Item Grade	S/U	
	La recording to the second of the second	Item 6 - Sub-Base	4/-1 2	
100	Quality of Material	A CONTRACTOR OF THE PARTY OF TH	the gard in	- 21
a	Grain Size	In Stage- II or III, 1 per	S/U	
b	Plasticity	km	S/U	<del>*************************************</del>
c	Compaction	In Stage- II or III, 1 per	S/U	
d	Total Thickness of Layer	2 per Km	S/U	,
	State of the following Paragram	Item Grade	S/U	
	Item 7 - Base C	ourse – Water Bound Mad	cadam	
a	Grain Size of Course Aggregate	Z OF	S/Ú ·	
Ь	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	· /
0	Thickness of every layer of WBM.	2 per Km	S/U	
٠,	Victoria Victoria Victoria de la Compania del Compania del Compania de la Compani	Item Grade	S/U	

	Item 8 - Bituminous Layer -	Tremix Carpes (**	T	
a	surface prior to application of bituminous layer	1 per Km	S/U	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	l observation 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	1 test on the day of inspection	S/U	
đ	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	
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
f	Thickness of layer	2 per Km	S/U	A.
g	Surface Evenness in case of completed BT work	2 per Km	S/U	
•		Item Grade	S/U	
	which is build the	tem 9 - Shoulders	1.165	Appendix Miles
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Iter	n Grade	and the state of t	S/SRI/U	
J	tem 10 - Cross Drainage Works	- Causeways of all spans a	and Culverts	upto 6 m.
а	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	-All Stages	S/SRI/U	
لمسب	2.02		Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	AND THE RESERVE

10.18	Item 11 - Side	Drain and Catch Water	· war species	www.sections
<b>A</b>	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	Drain S/SRI/Ų		
F# 8 : 45	and the second s	Item Grade	S/SRI/U	William .
	Item 12 - CC/ Semi Rigid	Pavements and Associate	ed Pukka Dr	ine -
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	
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U.	
	n appendication of the second	Item Grade	S/U	A Zerra Ser
	Item-13 - Ro	ad Furniture and Markin	gs	e Car
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	Z i
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	
4.7	de la companya de la	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.	Sub Item for Observation	Awarded Grade
Item No 1	Setting Out and Working Drawing	U
Item No 2	Site Clearance and Grubbing	1-7x; 17, 00
Item No 3	Quality Arrangements	U
Item No 4	Geometrics	S
Item No 5-A	Earth Work and Subjected in Embankment/	
Item No 5 B	Barih Work in Onling in 1918ly Rolling Research	
Item No 6	Sub Base 70	164
Item No 7	Braise Course AVance Bround Value adam	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Item No 8	Britisanious Dayer - Phermix Campa (PMC)/	
Item No 9	Shoulders	
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	
Item No 11	Side Drain and Catch Water Drain	
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	Continue of
Item No 13	Road Furniture and Markings	2
The second	. Overall Grading	U

Signature:

Name:

Date: ....

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

## Test for Granular Sub Base Grading-I Sieve Analysis (IS: 2720 (Part-4) - 1985)

Package No.:- mmgsy

Name of Road:- NH 105 TO PATHRA

Date:-

29-12-2018. Démision - Dorshaga - 2

Sample No. :-

54 m

Weight of Sample 28986

I.S. Sieve Designation	Weight of Sample retained (gm)	Percent of wt. retained (%)	Cumulative Precent of wt. retained (%)	Present of wt. passing (%)	Premisible Value
75 mm	0	0	000	100	100
26.5 mm	10100	34.84	34.84	65.1.6	55 - 75 A
4.75 mm	5992	20.67	55.32	44.48	10-30
0.075 mm	12894	44.48	100	-0-	< 10
PAN			(Î)		/

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Checked By:

Tested By

# SEIVE ANALYSIS OF AGGREGATES WBM-Gr-III

state more portur		
DISTRICT	********************************	my 682 449 225 204 540 540 700 744 50.
Name Of Road NH 105 TO PATRICA	KHAMA	BAZAR
Location and passes of the second sec	STRANSSEN DES LORGES CONTRACTOR C	
Package No :	000 000 000 000 TDB R00 D00 2000	1044 240 620 914 644 950 Cade Gade 904
90 10 10	P4 200 200 200 200 200 200 200 200 200 20	***************************************
Weight Of Sample Taken 28975  Dar Morge - 2	************************	***********
Dar Horge - 2	en con con con cin est con new tool	des con access see appage con con

15 Seive Designation	Weight Of Sample Retained	Percentage Of Weight Retained	Cumulative Percentage Of Weight Retained	Percentage Of Weight Passing (%)	Permissiable Value (%)
63 mm	369	1.27	1.27	98,73	100
53 mm	4766	. 16.45	17.72	82.28	95-100
45 mm	13744	47.43	65.16	34.84	65-90
22.4 mm	9311	3213.	97.29	2.7)	0-10
11.2 mm	785	2,7)	(00)	-0-	0-5
Pan					

Checked by: 11418

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mind - teath

A.V. Pa. A.E. 29.12-18 RIW. P. Region of East. Docklage

29.12. Tested by: