

Annexure 1 Format 1- Part I

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

Work is Ongoing Completed
GENERAL:
1.1. Date of Inspection 28 N2 2018
1.2. Name of State Quality Monitor:
1.3. District: Silamarhi Block: NanDur.
1.4. Name of Road: From Lo31 - To1 to ethoti Bhaeliyan.
1.5. Package No.: BR-33R-445
1.6. Length: Kim Flexible Pavement,Km. CC/other Pavementm, Total 1.243 Km
1.7. Estimated Cost (As cleared by GOI): Rs. 74.08 Lakh
1.8. Technical Sanction Cost: Rs. 74.08 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: 07 09 2015
1.12. Stipulated Date of Completion: 66 09 2016
1.13. Actual Date of Completion (if work completed):
2. PHYSICAL PROGRESS: (In case of On going works only) Construction Programme and Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	01	Due			
	50%	Actual			
CD Works		Due			
		Actual			
Sub base i/c	1115.1	Due			
Shoulders	40%	Actual			
Base Course (Non		Due	1		
Bitu.)	20%.	Actual	4-3		
Base /Wearing	mata and to southers!	Due			
Course(Bitu.)		Actual			
CC Pavement	201	Due			
	00%	Actual			
Signage etc	2.1	Due			
	30%	Actual			

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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		en by PIU with Date
Seption	ittomass	TedioOO Self Decision	個数 S d b sk L m えこ	Dignol All
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		(If work completed):	Saile Secretary State of the	T Ends A - £7.5
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	aphalqma X	Name and Signat	12-18	PIU, Date: 29-12-)
	aphalqma X	Name and Signat	12-18	Programma and Rock CD Vands Sub base to
	aphalqma X	Name and Signat	12-18	FPIU, Date: 29-12-1



Format 1- Part II

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

SETTING OUT AND WORKING DRAWING: For all stages of work

#	Bench marks @ 4	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 under progress is
rvie	0/0/9			

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

Referenced with marker Regel & chainage Boards(N)

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

#	Grubbing being done as per DPR and Material obtained is	available from scarifying existing work	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
694	Many and Many	A N	N

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

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

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

quantities whether all maintained as per provisions. Yes Partly No	#	Item of Work Executed	Quantity	Name Test	of	No. requi		Tests	No. of Tests Conducted by PIU/Contractor
quantities whether all maintained as per provisions. Yes Partly No Yes Partly No		Q.C	Re	gis	le	こ	Pa	w	1
quantities whether all mandatory tests conducted. Yes Partly No Trading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and aggestions for improvement:		nol	av	ai	la	tel	e	(/	8
quantities whether all maintained as per provisions. Yes Partly No Yes Partly No		fer	A-1)				
quantities whether all maintained as per provisions. I maintained as per provisions. I maintained as per provisions. Yes Partly No Yes Partly No Yes Partly No Frading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and uggestions for improvement:		MINOR TO ELEMENT	,				42.0	300	216
quantities whether all mandatory tests conducted. 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 improvement:	13			SELVICE			ETAG GEOG	10 E	Market Williams
Not available, Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:		quantities whether mandatory conducted.	all I main tests provis	ntained as sions.	per	o 6	II n	naintai ults mo visions	ned and test onitored as per
suggestions for improvement:		Nol-				le	7	100	Tatty NO
O. D, work not progr	Gra	ding: Grade: S SR gestions for improver	U If the	is item is	grad	ed SRI/	/U, w	rite cl	ear reasons and
	0		1)	, 1	26	ru	1	n	ol Progre
Sence last two years, from This	2	ence la	set	00	ye	ar	8,	\$74	H. Thick

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 %
125M	6.0	3.75					
- Ball	1183)5B6 7	PERTERNAL SE	a inserin	STATE	ter dansam	MDE3077 - 50	THA LOSE OF T
		to same(I		hfsi	11-10-12	OCIM not	# Local

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)
	N. A	4-4			
			55 13857 In	uess and heap-	e rot for

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

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)
			7

uggestion	s for improve	ment:	
		la J has yall opat	
		S	

#	Location	MDD kN/m ³	Field		gree of Compac	
	(RD)	(As per record)	Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	Compaction adequate. (Y/N)
	123M			\$4000 E	before 2 Augustus	
				tion of testing at	/XE . 17.	5
					1	

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	5

Observation - Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
OT R	To entirely	Penni holiselikasi) hore?	FOR MENSAGE FALL
	- Oldanason	N	
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			2 24 24
	2 (422)		
		*	

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

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Formation is properly dressed and traffic worthy. (Y/N)
	s by made	er, vitt work is enem By removing the BT	 ex. 15 BY layer latel.
		1	
			287NGU SERR

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
(ALC)	1005 141 ²² 3001		Look State Care S.		
	CONTRACTOR OF TAXABLE PARTY.		1.4		

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

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)
	195	N	N	N	N	N

Grade: for improv	S U	If this item is graded U, write clear reasons and suggestions
		(CD) whether appears to be protestor works with the protestor with the protestor (VD).

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	of each	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 coarse aggregate	Whether adequate compaction is done. (Y/N)
	600 M	70m	n N	N	N	N	N
	107 153			into minos 11	oben e mail	(A) (A) (A)	interità l
					Product neares	Carlo Leide	the for

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

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

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.):

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

In case of PMC/BM/MPM/ Seal Coat

	(Y/N)	ing the last to yo	limits. (Y/N)	permissible limits. (Y/N)
vanooneili eand don Y) semso	ama ki qirka Nasi (1908) sh Nasi	and sow and the source of the	ANEL ANEL	
	Constant (Constant Constant Co	Y) yearno yang	Court of the Court	Y) ne many lead

Grade: S U improvement:	If this item is gr	raded U,	write cle		gestions for
		- 1 mm	LITE AL		
Ava Course					

Observations - Workmanship of BT layer PMC/BM/MPM (in case of completed works):

#	Location	Th	ickness	Whether surface evenness is	
L	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)	within acceptable limits. (Y/N)	
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		ow his moitave	SHEET TO SHEET SHEET	wards w Loss latestons to without	
		bah N		H - A - A - A - A - A - A - A - A - A -	

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
grive Laving	In case of PMC/BBA/MPM/ Seel Cook

9. Observations - Quality of Shoulders:

#	RD of observation	Thickness of layer in mm	quality of the	of compaction workmanship is	Whether Shoulders being constructed simultaneously with sub-base and base course (Y/N)

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)	
	0000		(COR) COR (BES 50 COR	order in stationary
P			¥	
		1		

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

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	Whether general quality of the side drains/ catch- water drains is acceptable. (Y/N)	
			Y
	PERCENT VICERS	on the second of the second as	122.1.5) #8683 30000000000

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

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

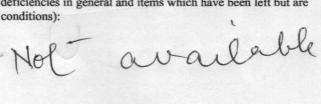
#	Reference of	CONTRACTOR OF THE PARTY OF THE PARTY	Thic	kness	General	General	
	RDs, CC/SR Pavements provided.	which obser- vation made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable (Y/N)	
1				Y	Y	N	
	arta entragen hap	9.081# 181	17 between	replication (I.e.	[0.1082] 8	Tobasti I	
	The street				herner seels		

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

	189060477880	O tening they	Drafes and Catch	
Grade: S U mprovement:	If this item is g		clear reasons and s	uggestions
	co. UNDER belong	si tema sidi 11	la less el	

Citizen Information Board Fixed: Yes No	200		ab bambiupit
Grade: S U If this item is graded U, write improvement:	e clear re	asons and	suggestions fo
C			
oce comments within the sanctional cost if not			14.3. Wher
PIU (fit case of complete works):			what is the u
	by the	ction talor	what is the o
PIO (la case af eumplete useriu):		crios telor	what is the u
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Observations - Quality Road Furniture and Mark	Yes	1	e oils et tad w
Observations - Quality Road Furniture and Mark 13.1.1. Logo Boards Fixed:	Yes	No No	o obli si indiv
Observations - Quality Road Furniture and Mark 13.1.1. Logo Boards Fixed: 13.1.2. 200m. Stones fixed:	Yes Yes	No No No	what is the same of the same o

- 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):



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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:

work at trogress Since last turyears (Aster A E)

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).

Aster N 2. M de 25.9.18

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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).

As above in A 14.4

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15. Other observations, if any:

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Number of Mandatory Tests as our reservice Weststeroy				
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		ised of also		
Quality of Material Six East uniquent Sub-grade			5/0	
Side Nonce and Profile				

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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	ing Out and Working Drav	wing /	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	SRI
b	Availability of Working Drawing	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	
	Item 2 – Si	ite Clearance and Grubbin	ig /	
2	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		
a	Quality Arrangements	All Stages	S/SRI/U	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	ine of
c	Maintenance of QC Registers	All Stages	S/SRI/U	-alon
		Item Grade	S/SRI/U	Pession
	States and Autopress Charles to It	tem 4 – Geometrics	4	a a
a	Road way width	per Km in every inspection	S/U	
b	Carriageway width	per Km in every inspection	S/U	
c	Camber	2 per km	S/U	100
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	(A) (A)
	e Appellio - Bertill Soft	Item Grade	S/U	tale ?
	Item 5A - Earth Work	and Sub-grade in Embank	ment/ Cutting	Elizas.
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	
c	Side Slopes and Profile	2 per km in Stage III	S/U	



	Item 5B - Earth Wor	rk in Cutting in Hilly/Roll	ling Terrain
a	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U
b	Adequacy of Slope Protection	All Stages - In general	S/U
c	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
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U
		Item Grade	\$/U
		Item 6 - Sub-Base	est periodetell paradici i Localemaciae Secol
	Quality of Material	1400 og Systemati	
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 Mac	cadam
a	Grain Size of Coarse Aggregate	5 to 15 regulated	S/Ü
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
	rassing andre	Item Grade	S/U

	Item 8 - Bituminous Layer -	Premix Carpet (PMC)/ Se	urface Dressin	g (SD)
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U T	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	etuel A
c	Gradation Test for Coarse 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	es andid Taleine indraga
d	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	N.A
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
f	Thickness of layer	2 per Km	S/U	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	VIII 102
	V 100 100 1	Item Grade	S/U	
		tem 9 – Shoulders		
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	103.00
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	Lidenso I
Ite	m Grade	H valla seasify et l	S/SRI/U	
	Item 10 - Cross Drainage Works	- Causeways of all spans span.	and Culverts	pto 6 m.
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	Alley Sound - Sylver
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	daliber/ Operate extend t MESW
	Talk Topes — Ulis Monto a	Item Grade	S/SRI/U	



		Drain and Catch Water I	I	1
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	1 621 81sd C AUS 2011
	Item 12 - CC/ Semi Rigio	d Pavements and Associate	d Pukka Dra	ins
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	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	a ev a et C ov es t
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	U
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
	A TE STAGES	Item Grade	S/U	E oid wist
	Item 13 - Ro	oad Furniture and Markin	gs	Of all and
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	S
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	MOL L
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	15
		Item Grade	S/U	

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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	U
Item No 3	Quality Arrangements	V
Item No 4	Geometrics	U
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	S
Item No 5 B	Earth Work in Cutting in Hilly/ Rolling Terrain	-
Item No 6	Sub-Base	U
Item No 7	Base Course - Water Bound Macadam	U
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	o to collect
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	U
Item No 13	Road Furniture and Markings	V
Overall Grading		U

Signature:

Name:

Date: