Annexure I Format 1- Part I

Format for information to SOM for Inspection of PMGSY Work

PART I- Work Information (To be filled-up by PIU)

	Work is Ongoing Completed
GENI	Work is Ongoing Completed ERAL:
1.1.	
1.2.	Name of State Quality Monitor: Ex. Sanjeer Kuma
1.3.	District: Patric Block: Patrick
1.4.	Name of Road: From LOB7 Pali Atola Roadto Rukanpura
1.5.	Package No.: BR - 26 R- 426
1.6.	Length:Km Flexible Pavement,Km. CC/other PavementKm. =
	Length:Km Flexible Pavement,Km. CC/other Pavement
	····
1.7.	Estimated Cost (As cleared by GOI): Rs. Lakh
1.8.	Technical Sanction Cost:
	Lani
1.9.	The Work is a Case of: New connectivity Up gradation
	op gradation
1.10.	Terrain Plain Rolling Hilly
	THIS I
1.11.	Date of Start of the Work: 3 19 17
1.12.	Stipulated Date of Completion: 8 11 18
1.13.	Actual Date of Completion (if work completed):
2.	
	PHYSICAL PROGRESS: (In case of On going works only) Construction amme and Physical Progress:
110516	annie and i hysical riogress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in
Earth Work	854.	Due	Date	Date	Months
		Actual			
CD Works	1001.	Due			
		Actual			
Sub base i/c	30%.	Due		7	
Shoulders		Actual		1	
Base Course (Non	100%.	Due		70	
Bitu.) ary 43		Actual		3	
Base / Wearing		Due		A	
Course(Bitu.)		Actual			
CC Pavement		Due			
		Actual			
Signage etc	301.	Due		1 1	
		Actual		,	



3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: Atsite
- 3.2. Quality Control Register Part-I is maintained by: Cultiple
- 3.3. Quality Control Register Part-II is maintained by: A.E.
- 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
			eo a basining to William
			omes bear death . M.
	aginebese		as how all a full
		STEELING NOW SELECTE	nimus Off
		T. E. L. Show office of the Control	oracinosiste dal l
Table and the second of the se		e a justice groundgrap O te	1.727 Scheduled Outs
		straistance Sam miliophilipne	to and labina set.1
		men account and the second	HEADING BY AND
			OT TOMBUSE SERVICES
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		The state of the s	
	T.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	au saud duż

Name and	Signature	of	the	Head	of	PIU,	Date:
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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)
	The install the note of	elipments our	7

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 Work Executed	Quantity	Name of Test	No. o	of Tests	No. of Tests Conducted by PIU/Contractor
	Reduist ou	- hities	Cosh-	he	use 12	eer
	conclusted	as f	Du 0.	t.	Regis	tero
	Convers	7 2	Cosh- Lu Q. e ele E. A.E.	& Ke	B.B.	
			1			1
		163 - 100				
						E11. 44
,	A STATE OF THE STA					
#	Based on exe quantities whether	cuted Whe	ther QC Regist intained as per	er Part	Whether II maint a	QC Register Part

#	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

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

9

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

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

#	Whether Bench marks @ 4 per km established (Y/N)	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
The state of the s	7	A+ 2501	7	7

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

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

#	as per DPR and Material obtained is	scarifying existing work	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
		<u> </u>	Y

Grading: Grade S SRI U suggestions for improvement:	If this item is	graded	SRI/U,	write	clear	reasons	and
	K_11		9				

(3)

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 %
0/060	- 6m	3.75	3.3				
0 85	6 m	3.75	3.2				
					m sa s-cici		

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)
0/130	5.5%	1			

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

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)
	0/060 Ke	c	7
	0 850 -	در	7
	1		

Grade: uggestions	for improve	ement	item is gra	ded U, write	clear reas	ons and	
		Titotic.					
	-	"5"					

#	Location (RD)	MDD kN/m ³ (As per	Field	Deg	gree of Compac	tion
	(103)	record)	Moisture Content	Field Density kN/m ³	Dry Den sity kN/m ³	adequate.
		As A	u la	lier ene	ekej	(Y/N)
		07 5.0	· M.	for Su	ins faday	
- 11						

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	Whether profile is
		Satisfactory (Y/N)	Satisfactory (Y/N)
		work in pr	ofter
			200000

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 dressed and traffic worthy. (Y/N)
	M. 1		
			tuen diesero i v

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
Land C	X1.	0		Sec. 12 - 10	
				Same Hills	

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	1511

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)
	0/06-	7	Y	7	175	Y
	0 850	7	7	7	175	7
				No.		/

(8)

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

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)	non-plastic to desired extent.	Volume of filler material percent of course	Whether adequate compaction is done. (Y/N)
	0/06004	7	7	4	(Y/N) 7	aggregate	4
	6/850ac	ch 75	7	7	7	23 / .	7

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:

1511

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.):

Hot dae

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

yes to be due

#	Location	C/BM/MPM/ S			
11	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)
		K.2	61.4-	e 25 e	10 7
				0	
	2.				

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
patterings of some	pagetage May 1 to appropriate to be all tends and the model of the
	ostraz altum menegaturugun en

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

#	Location		ickness	Whether surfa ce evenness is
	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)	within acceptable limits. (Y/N)
			Yet to be	- la

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

9. Observations - Quality of Shoulders:

#	RD of observation	Thickness of layer in mm	Whether quality of the material is	of compaction	Wh ether Shoulders being constructed simultaneously
	7060	250	acceptable. (Y/N)	acceptable.(Y/N)	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)	Whether quality of workmanship is acceptable. (Y/N)
	0/075	1x1 mon	4	~1
	0/475	3.11	1,4	7
	7775	′1	7	1

Grade: S SRI U suggestions for improvement:	If this item is graded SRI/U, write clear reasons and
How guideline the curies in	S "

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.		of the side drains/ catch-	Whether side drains are integrated to cross drains. (Y/N)
			H. A	
	• (5)	at w. I. be		COMPRESSOR MINERAL

Grade: S SRI U suggestions for improvement	If this item	is graded	SRI/U,	write	clear	reasons	and
suggestions for improvement	:					10030113	and

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	Acceptable	quality material	of is	quality of
	provided.	on made.	in mm	(Y/N)	acceptable.	15	workmanship acceptable(Y/
				- 1 - 2 2 2 2	(Y/N)		N)
	T and		yello	she de			
	147			13			
	501 16010 ADV						N

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

	•
a Dealton Dheil vonton	

improvement:	ed U, write clear reasons	()I

Road Furniture and Markings 13.

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

Main Informatory Board Fixed:

Citizen Information Board Fixed:

Grade: improvement:

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

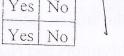
Observations - Quality Road Furniture and Markings:

- 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
Yes	No

Yes No

Yes	No



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

- General Observations of SQM, (including the observations made during the 14. 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):

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).



15. Other observations, if any:

		at Hanest edit to Constanting	
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		The seast violation. It is a school by	
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2			
2			
1			

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 Drav	wing		
a	Bench Mark and Centre Line	All Stages	S/SRI/U	5	
b	Availability of Working Drawing	All Stages	S/SRI/U	3	
		Item Grade	S/SRI/U	5	
	Item 2 – Si	te Clearance and Grubbir	ıg		
à í	Site Clearance and Grubbing Stage-I		S/SRI/U	5	
b	Re-use of Salvageable Material Stage-I		S/SRI/U	-	
		Item Grade	S/SRI/U	5	
	Item 3	- Quality Arrangements			
a	Quality Arrangements	All Stages	S/SRI/U	5	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	5	
c	Maintenance of QC Registers	All Stages	S/SRI/U	3	
		Item Grade	S/SRI/U	3	
	It	em 4 – Geometrics			
a	Road way width	2 per Km in every inspection	S/U	5	
b	Carriageway width	2 per Km in every inspection	S/U	5	
c	Camber	2 per km	S/U	5	
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	5	
		Item Grade	S/U	5	
	Item 5A Earth Work	and Sub-grade in Embank	ment/ Cutting	7	
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	5	
b	Compaction	In Stage-I, 2 per km/ In Stage-II or III, 2 per km	S/U	5	
C	Side Slopes and Profile	2 per km in Stage III	S/U	<	

	NATION AND ADDRESS OF THE PARTY	FLEGO.	Para
1	11	N	The same
1	8	9	f
-	and the same	1	

	Item 5B - Earth Wo	rk in Cutting in Hilly/Ro	lling Terrain	1
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	
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	h —
		Item Grade	S/U	5
		Item 6 - Sub-Base		
	Quality of Material			
a	Grain Size	In Stage- II or III, 1 per km		3
b	Plasticity			5
c	Compaction	In Stage- II or III, 1 per km	S/U	3
d	Total Thickness of Layer	2 per Km	S/U	3
		Item Grade	S/U	5
	Item 7 - Base C	ourse – Water Bound Ma	cadam au	4617
a	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 km In Stage- II or III, 1 per km		S/U	S
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	_
е	Thickness of every layer of WBM.	2 per Km	S/U	S
	Lan Grade [STR]	Item Grade	S/U	5

		Item 8 - Bituminous Layer - 1	Premix Carpet (PMC)/ Su	rface Dressin	ig (SD)
	a	Level of cleanliness of WBM surface prior to application of oituminous layer	I per Km	Ŝ/Ū	hea to
	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	l test on the day of inspection	S/U	1
	d	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	I test on the day of inspection	S/U	
	e	Bitumen Extraction Test if PMC is complete	l 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	
			Item Grade	S/U	
			tem 9 – Shoulders	CGHR-JL 3	
	2	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SR I/U	vak
E	b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SR I/U	S
	c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SR I/U	_S
		em Grade		S/SR I/U	S
		Item 10 - Cross Drainage Work	s – Causeways of all spans span.	and Culverts	s upto 6 m.
		Quality of Material - Concrete,		•	
		Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SR I/U	S
	- m	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SR I/U	5
	-		Item Grade	S/SR I/U	5

	Item 11 - Side	Drain and Catch Water	Drain	
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	×4. 1
	Race Miles	Item Grade	S/SRI/U	
Š	Item 12 - CC/ Semi Rigio	l Pavements and Associate	ed 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	Yeth be du
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III,1 per 100 m. Length of S/U Pavement		
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	
	Services A balance	Item Grade	S/U	
	Item 13 - Ro	oad Furniture and Markin	igs	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	5
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	unkin Propres
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	
		Item Grade	S/U	5

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

Item No.	and Item for Observation	
Item No 1	Setting Out and Working Drawing	S
Item No 2	Site Clearance and Grubbing	S
Item No 3	Quality Arrangements	5
Item No 4	Geometrics	S
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	5
Item No 7	Base Course - Water Bound Macadam - 63	5
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	
Item No 9	Shoulders	3
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	5
Item No 11	Side Drain and Catch Water Drain	
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	_
Item No.13	Road Furniture and Markings	5
	Overall Grading	S

Signature: Name: Ex. Sanjew Kome Executive Engineer Date: R.W.D. Works Div. Masaurhi

TEST FOR WATER BOUNDMACADAM BASE

Sieve Analysis of Aggregate (2386 Part- I) WBM - Grade- III

Package No.

13R-26R-420

Name of Road: LOST Pali Atolaroad to Rukan pura

Location:

60 M

Date of testing: 27/12/18

Type of Material:

Weight sample taken:

38904

I.S. Sieve designation	Weight of sample retained (gm)	Percent of wt. retained (%)	Cumulative percent of wt. retained (%)	Prescribed Limit % wt. passing	Prescribed Limit % wt. passing/ Retained
63.00 mm	0	0	0	100	100
53.00 mm	1587	4.08	4.08	95.92	95-100
45.00 mm	10617	27-29	31.37	68.63	65-90
22.4 mm	23475	60.34	31.71	8.29	0-10
11.2	3223	8.29	100	0	0-5
Pan					

All of social in box = 42 cm

Checked by:

Executive Engineer R.W.D. Works Div. Masaurhi

TEST FOR WATER BOUNDMACADAM BASE

Sieve Analysis of Aggregate (2386 Part- I) WBM - Grade-III

Package No.

BR-26R-420

Name of Road:

LO87 Pali Atola Road to Rukampure

Location: 850m

Date of testing: 27/12/18

Type of Material:

Weight sample taken:

36090gh

I.S. Sieve designation	Weight of sample retained (gm)	Percent of wt. retained (%)	Cumulative percent of wt. retained (%)	Prescribed Limit % wt. passing	Prescribed Limit % wt. passing/ Retained
63.00 mm	0	0	0	100	100
53.00 mm	1714	4.75	4.75	95.35	95-100
45.00 mm	9593	26.58	31.33	68.67	65-90
22.4 mm	23484	65.07	96.40	3.60	0-10
11.2	1299	3.60	100	ō	0-5
Pan					

I'll of metul in boy = 41em Mot Sevening into 0x = 9.5 cm

of Sevening = 9.5 x 1 no = 23.17 Sey 23%.

Checked by:

Tested by: