























# 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 DD MM YY 27-12-20/8
1.2. Name of State Quality Monitor:
1.3. District: Mashy pura Block: Waskishungan)
1.4. Name of Road: From To 4 NH 106 Wakishungto to Tiotanga
18270017
1.6. Length:Km Flexible Pavement, 2:10Km. CC/other Pavement 0.79 2
TotalKm 2.892 km
1.7. Estimated Cost (As cleared by GOI): Rs. 181. 29 Lakh
1.8. Technical Sanction Cost: Rs. 181.29 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: 13 07 17
1.12. Stipulated Date of Completion: /2 07 /8
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	QAM	Due .	0.00		Tribilitis
	80%	Actual			+
CD Works	10011	Due			
	100%	Actual			
Sub base i/c	85%	Due			
Shoulders	837.	Actual			
Base Course (Non		Due			
Bitu.)	85%	Actual			-
Base/Wearing		Due	. 4		-
Course(Bitu.)		Actual			-
CC Pavement		Due		1	
		Actual			
Signage etc	0 -	Due			
, ,	35%	Actual			

## QUALITY CONTROL:

- 3.1. Location of Field Laboratory: 0.700 km
- 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

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
200			
28.3.18	Ex made	)	
1	KOWA LUMOS	M) Satisfactor	4
23.5.18	Er AJa	4	
1	cumax)		
	(59	PM) Satisfactory	
to	Er Sushi,		
	10 tande		
1	SOMY	Satisfactor	4_
	1	1	

Name and Signature of the Head of PIU, Date:.....

# 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.)

per dalah	M	Stage of Work:	I III III
SETTING	TITE AN	ID Wichman	

### SETTING OUT AND WORKING DRAWING: For all stages of work

#	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

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

5

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

#	as per DPR and Material obtained is being disposed off	scarifying evicting and	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
	Y	y	

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

5

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

#	Whether Field laboratory Established (Y/N)	available.	Whether adequate Equipments as per requirement of work are available and are being used.  (Y/N)
	У	Sieve corecuttes Sandreplacement	У

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. of To	Conducted by PIU/Contractor
-					
+					
+		12 20			
			7 7		
		all I main provis	tained as per ions.	II mai results provis	her QC Register Part intained and test is monitored as per sions. Yes Partly No

Grading: Grade: suggestions for imp	S SRI U	If this item is	graded SRI/U, wr	ite clear reasons a	and
		1			

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 %
1200	M 5.80M	3.75M	3				

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)
2065	X	У		X	

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	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)
	2065	sandy clay	. · y
			y
	1		

Grade: S U If this item is g suggestions for improvement:	raded U, write cle	ar reasons and
15'		
		F 1 408:3

### Observation - Workmanship for Embankment and Sub-grade Construction:

#	Location	MDD kN/m <sup>3</sup>	Field	Degree of Compaction			
	(RD)	(As per record)		Field Density kN/m <sup>3</sup>	Dry Density kN/m <sup>3</sup>	Compaction adequate. (Y/N)	
+			X/.	A			
1							
T							

If this item is graded U, write clear reas	sons and suggestions for
2	
N- A-	And the second
	If this item is graded U, write clear reason.

### Observation - Side slopes and profile:

# .	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
	7		
	1. 4	N. A.	

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

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	protection works	Formation is properly dressed and traffic worthy. (Y/N)
		~ / · · · · ·		
		(		

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

Ref. Between	Longitudinal	S/U	Ref. Between	Breitain.	
RD& RD	Gradient	0,0	RD& RD	Longitudinal	S/U
			10a No	Gradient	
			- N	The state of the s	
The state of the s					

improvement:	J II dis item is graded	U, write clear reasons and	suggestions for
	- N	. A —	
4			

### 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)
	- 1					
			N-1	<del>}</del> ·	-,	
-						
-	1					
	1					

for improvement:	if this item	is graded U,	write clear	reasons and su	ggestions
		V.A-			
Pos					
7. Base Course:					
bservations- Quality of					

Observations- Quality of Material and Workmanship of WBM:

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

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.):

+ N. A. \_\_\_\_

MANA

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

\_\_ N- A-

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)
					mints. (Y/N)
		100	The Part of		
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			-	1			1	
Obs	servation	s - Workm	anshin	of RT la	ne Disco		M (in case o	
wor	ks):		ч	OI DI 18	yer PMC/	BM/MP	M (in case o	fcompleten
#	Location	n	Thi	ickness		-		
	(RD)	Thickne	ess in		thickness	Whet	her surface e	venness is
-		mn		is adequa	ate. (Y/N)	within	acceptable li	mits. (Y/N)
		1		a de que	(1/N)			( - / / )
1			- 1					
						0		
						()		
				1/1001	Lin	100	78411	
+			1	1 001	Lin	100	Just	
	e: S 1	U If thi				lear reason	ons and sugg	estions for
		U If thi		is graded				estions for
Obse	ervation	s - Quality	s item	is graded	U, write cl			estions for
Obse	ervation	s - Quality	of Shool Whe qualimates	ulders: ether ity of the rial is otable.	U, write cl	quality npaction aship is	Whether S being cor simultaneous with sub-b	houlders astructed usly
Obse	ervation	s - Quality Thickness of layer in	of Short	ulders: ether ity of the rial is otable.	Whether of con workman	quality npaction aship is	Whether S being cor simultaneous with sub-b	houlders astructed usly
Obse	ervation	s - Quality Thickness of layer in	of Shool Whe qualimate accep	ulders: ether ity of the rial is otable.	Whether of con workman acceptabl	quality npaction iship is e.(Y/N)	Whether S being cor simultaneous	houlders astructed usly
Obse	ervation	s - Quality Thickness of layer in	of Shool Whe qualimate accep	ulders: ether ity of the rial is otable.	Whether of con workman	quality npaction iship is e.(Y/N)	Whether S being cor simultaneous with sub-b	houlders astructed usly

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

#	RD at which CD is located		Whether quality of the material is acceptable. (Y/N)	Whether quality of workmanship is acceptable. (Y/N)
	1646M	R.C.C.s	M	· · · · ·
	2650M	1/	У	V
		"	. *	

Grade: S suggestions f	SRI or impr	If this t:	item is g	raded SF	U, wri	te clear	reasons and
			5				

#### 11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	RD at which observation made.	Whether general quality of the side drains/ catch- water drains is acceptable. (Y/N)	are integrated to
		×	1- A	
4			4-11-	· i
,				

Grade: S SRI U I	f this item is graded SRI/U,	write clear reasons and
		• •
	N. A	1
	<b>一种</b>	

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

#.	Reference of RDs, CC/SR		Thio	kness :	General	General
	Payements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable.	quality of workmanship acceptable(Y/ N)
-				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		IN)
_					P	
			MOS	Kin	12000	4
		No. 12				i e

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

Grade: S U improvement:	If this item is graded U	U, write clear reasons and suggestions f	for
		.4	

#### 13. Road Furniture and Markings

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

Main Informatory Board Fixed:

Yes No

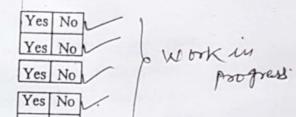
Citizen Information Board Fixed:

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

5

### 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

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):

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 1 2	Stage of Work	Awardable Grades	Awarded	
1		3		Grades 5	
1	tem 1 – Se	tting Out and Working Dra	awing	11.00	
1	Bench Mark and Centre Line	h Mark and Centre Line All Stages		S	
b	Availability of Working Drawing	All Stages	S/SRI/U		
-		Item Grade	S/SRI/U	S	
-	Item 2 – S	Site Clearance and Grubbi	ng		
a	Site Clearance and Grubbing	Stage-I			
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	S	
		Itam G	S/SRI/U	S	
	Teins 2	Item Grade.	S/SRI/U	S	
2	Ouglis a	- Quality Arrangements			
4	Quality Arrangements	All Stages	S/SDIA:		
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U S/SRI/U	_	
c	Maintenance of QC Registers	All Stages			
			S/SRI/U		
		Item Grade	S/SRI/U		
-	I I	tem 4 - Geometrics			
a	Road way width	2 per Km in every			
		inspection	S/U	5	
b	Carriageway width	2 per Km in every		ے .	
c	Camber	inspection	S/U	S	
		2 per km	0.71	2	
d	Super-elevation & Extra		S/U	S	
	Widening at Curves	l curve in each km	S/U	S	
		Item Grade	-	~	
	Item 5A - Earth Work a	and Sub	S/U	S	
	Quality of M	and Sub-grade in Embanka	ment/ Cutting		
1	Quality of Material for Embankment/ Sub-grade	- Otage-I   no- I		•	
	U	km lor III, 1 per	S/U	S	
'		In Stage-I, 2 per km/ In Stage- II or III, 2 per km	SAL		
1	Side Slopes and Profile	2 per km in Stage III	S/U		
		- per kin in Stage III	S/U		

	Item 5B - Earth Wo	rk in Cutting in Hilly/Rol	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	S/U	BN-P
4		Item 6 - Sub-Base	ď	
	Quality of Material	*		
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	
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 WBM	In Stage- II or III, 1 per	S/U	S
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	S
1		Item Grade	S/U	5

as	positioning of pipes, wing alls, cushion over H Pipes	All Sta	ges	S/S	SRI/U	S	
St	uality of Material - Concrete, tone/ brick masonry, Hume pes including size etc.		1	S/	SRI/U	S	
	m 10 - Cross Drainage Work	cs – Cau	seways of all spa pan.	ns an	d Culverts	upto 6	m.
4	Grade			S	/SRI/U		
_	hickness of layer	per k	age- II or III, 2 tes m	ts	S/SRI/U-	14	· <del>()</del> ·
+	Degree of compaction	per k		1	S/SRI/U		1
S	Quality of material for houlders	per l			S/SRI/U		1:
10	Quality of material 5	1	- Shoulders				
			Item Gr	ade	S/U		
	Surface Evenness in case of completed BT work	2 pe	er Km		S/U		
1	Thickness of layer	2 p	er Km		S/U		
e	Bitumen Extraction Test if PMC is complete	1 t	est per Km		S/U		
ď	Grade of bitumen and temperature at the time of mixing and laying (if the wo in the item is ongoing)	ork in	test on the day of spection		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		S/U		N.
b	Quality of Prime Coat/ Tac Coat with respect to qualit material and workmanship	vof	l observation on the of inspection	ne day	S/U		
я	Level of cleanliness of WI surface prior to application bituminous layer		l per Km	WIC)/	Surface D	ressing	(SD)
		ayer - I	remix Carnet (D	MC	Sunface		1

	Item 11 - Side	Drain and Catch Water I	Drain ·	
а	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	N.A
	·	Item Grade	S/SRI/U	
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka Drai	ns
а	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	N.A
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
	A MA	Item Grade	S/U	
	. Item 13 - Re	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/Ú	N.A.
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	S
		Item Grade	S/U	S

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
Item No 1		Grade
Item No 2	Setting Out and Working Drawing Site Clearance and Grubbing	5.
Item No 3	Quality Arrangements	S
Item No 4	Geometrics	-
Item No 5 % Item No 6 Item No 8 Item No 8 Item No 9	Earth Work and Sub-grade an Probankine III Gurning # + *  Earth Work in Culting in Hilly/Rolling Detrain Sub-Base  Base Course = Water Bound Macadam  Bituminous Layer = Premix Carpet (TMC)  Surface Dressing (SD)	S
Item No 10	Shoulders  Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	N-A.
Item No 11	Side Drain and Catch Water Drain	S
tem No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	N-A-
tem No 13	Road Furniture and Markings	N.A.
Overall Grading		S

Signature:	Akue
Mann	TIMIL

Name: 27/12/16

Date: कार्यपालक अभियंता गारीण कार्य विभाग कार्य प्रशास्त्रल, बीरपुर