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

	Work is Ongoing Completed
GEN	ERAL:
1.1.	Date of Inspection: 28 121 18
1.2.	Name of State Quality Monitor: En Gyan wibhakar
1.3.	District: PARGHANGA Block: KEOTI
1.4.	Name of Road: From P. W. D. central Bank 10 Mushim Tole Rejaura
1.5.	Package No.: MM (n syl (nEN)
1.6. Total 1.7.	Length:Km Flexible Pavement,Km. CC/other Pavementm. = 3:9.3.Km Estimated Cost (As cleared by GOI): Rs. 2\3 \cdot 3 \cdot 1 akh
1.8.	Technical Sanction Cost: Rs. 213-37 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: 0907 2016
1.12.	Stipulated Date of Completion: 08 07 2017
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	(2.1.	Due			
THE RESIDENCE OF THE PARTY OF T	60%	Actual			
CD Works	100 %	Due	W		1
	100/1	Actual			
Sub base i/c	70%	Due	AFIL		
Shoulders	4-1.	Actual	W.		
Base Course (Non	900/0	Due	III.		
Bitu.)	2012	Actual			- HE 250
Base /Wearing	35./0	Due	THE		
Course(Bitu.)	30/0	Actual	98.5		
CC Pavement	100./0	Due			
	100 /0	Actual			
Signage etc		Due			
		Actual	1000		

3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: At site
- 3.2. Quality Control Register Part-I is maintained by: contractor 6-33-

militaries in 100s or authorital telephone

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

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
	Se via		
	10/2 0 0 1		Printer lies of the little
	E 52 8		
	synchia de la		
		A STATE	
			and the least of the

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)

#	Whether Bench marks @ 4 per km established (Y/N)	Exact Locations of the Benc Marks		ely prepared Working and Drawing for the work wer under progress is
	7	250,500) 4	Y
2.	SITE CI	EARANCE A	AND GRUBBING: For S	Stage Lof Work
2.	SITE CI	EARANCE A	AND GRUBBING: For S	Stage Lof Work
#	Grubbing	being done	Whether the material available from scarifying existing work	Name the reusable materia obtainable from elearance o
#	Grubbing as per Material being di	being done DPR and obtained is sposed off	Whether the material available from scarifying existing work or clearing operations can be salvaged and reused (Y/N)	Name the reusable material obtainable from clearance of scarification and indicate approximate quantity and it
#	Grubbing as per Material	being done DPR and obtained is sposed off	available from scarifying existing work or clearing operations can be salvaged and	Name the reusable material obtainable from clearance of scarification and indical approximate quantity and it

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)
	H		И

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 required		No. of Tests Conducted by PIU/Contractor
-							
	70.7						
-	No. of Language						
						VII. 84	
				-		10	
#	Based or	exe	cuted Whe	ther QC Regist	er Part	Whether	QC Register Part

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

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

SRI

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 %
1000	3.75M	6-00M	3.31				
1500	8.75M	3.00 M	3.2				
2400	-3.38×	B.75M	34				

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)
				Tellar St.	
		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			
1					

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

OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

5. Earthwork:

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

the Group Symbol and write	, Y
	NI.
	Y
11	<u> </u>
On A rest Mary 1	Y

sugges	tions fo	or improveme	nt:	graded U, write		
			1	s'	Ot 3	
					0 0 M	00/71
				E Maria		
bserva	ation -	Workmansh	ip for Embar	kment and Sub	-grade Constr	uction:
# Loc	cation	MDD kN/m	3 Field	Des	gree of Compac	tion
Charles of the Control of the Contro	RD)	(As per record)	Moisture Content	Field Density kN/m³		
		**				
			1	American E		
	11377					
Grade		11 If this	item is grade	d II write clear	reasons and suo	agestions for
	:: S		item is grade	d U, write clear i	reasons and sug	gestions for
	1777		item is grade	d U, write clear i	reasons and sug	gestions for
	1777		item is grade	d U, write clear i	reasons and sug	gestions for
	1777		item is grade	d U, write clear i	reasons and sug	gestions for
	1777		item is grade	d U, write clear i	reasons and sug	gestions for
imprev	vement			d U, write clear	reasons and sug	gestions for
imprev	vement	Side slopes	and profile: Vhether Side S	Slopes	Whether prof	ile is
Observ	vement	Side slopes	and profile:	Slopes		ile is
imprev)bscrv	vement	Side slopes	and profile: Vhether Side S atisfactory (Y	Slopes	Whether prof Satisfactory (ile is

CENTRAL CONTRACTOR OF A STATE OF

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)
8.0		, A	
		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/L
	4.4	/			
	4				

			d suggestions to	
		168 AT	Monor	
		mm2t	wite!	
	V	水田港市	AMATTE	
A STATE OF				
	V _		TWENT V MM25	V WHAT MOST

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)
	1000M	7	7	4	145mm	Y
	1500M	4	V	N	175mm	N
	2#00M	7	Y	7	175mm	4

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

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

of each layer of WBM (mm)	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)
1 75 mm	Y	Y	4		
1 45mm	4	Y	~		- У
45mm	Y	4	Y		4
1	45mm	#5mm y	#5mm y y	#5mm y y y	#5mm y y y _

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 -

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 anno of DMC/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 Imits (Y/N)
			4.4	100	
		/			
		1200	WO KEY Y	10%1	

The many of the modern at the Widnes accounts on contract, modificational tracks have Grade: S If this item is graded U, write clear reasons and suggestions for improvement: N.A -Observations - Workmanship of BT layer PMC/BM/MPM (in case of completed 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: of 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

	(1/N)	base course (Y/N)
100	rk um progress	

(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)	
T.		STATE OF THE STATE		
i i		And I will		
		adulga		
	usur I a si			

Grade: S SRI U suggestions for improvement:	If this item is graded SRI/U, write clear reasons and
	V miger was More in

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)
		N. A		
		/		

S SRI		item i	s gradeo	I SRI/U	, write	clear	reasons (
		N		(Constitution of the constitution of the const			
		H.,					

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 of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)	
	10 M	M 01	190mm	Y	4	V	
	110 M	110 11	19 omm	7	7	V	
	200 11	200M	190mm	Y	4	Ŋ	
						willian Statute	

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

the Contract of			

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

13.	Road	Furniture	and N	Aarkings
10.	Houn	y at mittare	SARRET TO	THE LITTLE

's'		
bservations - Quality Road Furniture and Marki	ngs:	
13.1.1. Logo Boards Fixed:	Yes No	2
13,1.2. 200m. Stones fixed:	Yes No	
13.1.3. 1 Km. Stone fixed:	Yes No	working
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 improvement:	elear reasons 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):

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:

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

H	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades
1	2	3	4	5
	Item 1 - Setti	ng Out and Working Drav	ving	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	B
b	Availability of Working Drawing	All Stages	S/SRI/U	S
		Item Grade	S/SRI/U	
	Item 2 – Si	te Clearance and Grubbin	g	dition
11	Site Clearance and Grubbing	Stage-I	S/SRI/U	S
h	Re-use of Salvageable Material	Stage-I	S/SRI/U	S
		Item Grade	S/SRI/U	
	Item 3	- Quality Arrangements		
11	Quality Arrangements	All Stages	S/SRI/U	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	S.
		Item Grade	S/SRI/U	SRI
		em 4 – Geometrics	BALLET	
8	Road way width	2 per Km in every inspection	S/U	S
b	Carriageway width	2 per Km in every inspection	S/U	9
c	Camber	2 per km	S/U	9
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	н-А
		Item Grade	S/U	8
15.77	Item 5A - Earth Work	and Sub-grade in Embanl	cment/ Cuttin	g
a	Quality of Material for I mbankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	N
ь	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	S
70	Side Slopes and Profile	2 per km in Stage III	S/U	

	Item 5B - Earth W	ork in Cutting in Hilly/ Ro	lling Terra	tin
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	4.4
b	Adequacy of Slope Protection	All Stages - In general	S/U	N-A
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	N-A
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	N.A
		Item Grade	S/U	N.A
		Item 6 - Sub-Base		
	Quality of Material			
a	Grain Size	In Stage- II or III, 1 per	S/U	8
b	Plasticity	km	S/U	
c	Compaction	In Stage- II or III, 1 per km	S/U	S
d	Total Thickness of Layer	2 per Km	S/U	3
		Item Grade	S/U	2
	Item 7 - Base C	ourse – Water Bound Mas	adam	
1	Grain Size of Course Aggregate		S/U	N . A
,	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, 1 per km	S/U	N·4
	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	_,,,
	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	
	Thickness of every layer of WBM.	2 per Km	S/U	S
		Item Grade	S/U	S

1. 00

	Item 8 - Bituminous Laye	er Premix Carpet (PMC)	/ Surface Dr	essing (SD)	7
	a Surface prior to application o bituminous layer	1	S/U	н.д	
1000	h Quality of Prime Coat/ Tack Coat with respect to quality o material and workmanship	1 observation on the de of inspection	ay S/U	N.A	
,	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	N·A	
d	Crade 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	
c	PMC is complete	l test per Km	S/U	М.Д	
f	Thickness of layer	2 per Km	S/U	N.A	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	N.A	
	and the second	Item Grade	S/U		
		Item 9 - Shoulders			
	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	1	
	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U		WORK
N.	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U		2,000
	em Grade		S/SRI/U	1	
The second	Item 10 - Cross Drainage Works	- 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/SRI/U	A. 142	
	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	QN . A	
		Item Grade	S/SRI/U	N.A	
	N. A. C.	- State	S/SICI/U	200	

	Item 11 - Side	Drain and Catch Water I)rain	
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	4.4
		Item Grade	S/SRI/U	n. W
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka De	ains
a	Quality of Material - Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	8
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III,1 per 100 m. Length of Pavement	S/U	9
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	Ś
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
		Item Grade	S/U	S
	Item 13 - Re	oad Furniture and Markin	igs	
а	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	H-A
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	S
		Item Grade	S/U	S

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	S
Item No 2	Site Clearance and Grubbing	S
Item No 3	Quality Arrangements	SRI
Item No 4	Geometrics	3
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	9
Item No 7	Base Course - Water Bound Macadam	3
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	
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	S
Item No 13	Road Furniture and Markings	3
	Overall Grading	SRI

Name: Gryan Vibrakan Date: 29.12 18 P10. Phulparas