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

GENERAL: Work is Ongoing Completed
1.1. Date of Inspection DD MM YY 28 - 12 - 2018
1.2. Name of State Quality Monitor: Dip Narayan Prasad
13. District: - Saran Blooks Sarahar
1.4. Name of Road: From R. C. O. P. C. 10. O. A. 10. O.
1.4. Name of Road: From R. LO Road. to Ray Kasan pur
10K-09K- 70/
5 TO THE POLY OF T
_
1.7. Estimated Cost (As cleared by GOI): Rs. 150-389 Lakh
1.8. Technical Sanction Cost: Rs. 180-387 Lakh
Rs. 150.389 Takh
1.9. The Work is a Case of: No.
New connectivity Up gradation
1.10. Terrain Plais Policy I was
Plan Rolling Hilly
1.11. Date of Start of the Work:
Sales of the work:
1.12. Stipulated Date of Completion:
113 April 124 60
1.13. Actual Date of Completion (if work completed):
2. PHYSICAL PROCESSOR of
Programme and Physical Progress: (In case of On going works only) Construction
2. PHYSICAL PROGRESS: (In case of On going works only) Construction Programme and Physical Progress:

Earth Work CD Works Sub base i/c Shoulders	Completed percentage of Item 80 %	Dates for completion Duc Actual Due Actual Due Actual Due	Start Date	Completion Date	Delay in Months	
Page Course O'-	100%	Actual		-		
	100%	and a		- 1		

QUALITY CONTROL: 3.

- 3.1. Location of Field Laboratory:
- Location of Field Laboratory:

 Quality Control Register Part-I is maintained by: Control Register Part II 3.2.
- Quality Control Register Part-II is maintained by: 3.3.

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:

		en statement:	The state of the s
Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
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Signature of the Head of PIU, Date:.

Report of National Quality Monitor (NQM) PART II— Observations of NQM for Ongoing/Completed Work

(To be filled-up by NQM, use additional sheets, if required.)

1. QUALITY ARRANGEMENTS-OBSERVATIONS (In Case of ongoing works only): Observations:

			414		Whether Equipments
#	Whether	Field	Whether	necessary	1 (77.0.1)
"	laboratory	Established	Equipments	available	have been used (Y/N)
	(Y/N)	25,001,011,00	(Y/N)		
	(1/14)		(1/14)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	\ \ \	<i>(</i>	У		У
	/		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ading: Grad			s graded RI/U	U, write clear reasons and
sug	gestions for	improvement	:		
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				7.	
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		18.4	8 - Y 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

2. ATTENTION TO QUALITY: (In Case of ongoing works only):

Observations - Item 2a: Maintenance of QC Registers:

#	Based on executed quantities whether all mandatory tests conducted. Yes Partly No	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
	V		

Observations - Item 2b: Verification of Test Results (P - conforms, F - does not

con	form):		TD.	
#	Name of Test	Results of the test conducted by NQM at a defined location.(P/F)	Test result as per QC Register at the same location. (Mention the Page No. of QC Register also)(P/F)	Whether the test results recorded in QC register found correct? (Y/N)
			NA-	
	, 1 g ^m		30	

· .

more observations:

Observations - Item 3 a, b and c: Road way width, Carriage way and Camber.

		. Joseph Co.			
Ref. RD	Roadway Width (m)	Carriageway Width (m)	Ref. RD	Roadway Width (m)	Carriageway Width (m)
300m	6.00m	3.75 m	300 m	6.00m	3.75m
		100			

Observations - Item 3 d: Superelevation and Extra Widening at curves.

	Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
,	<i>y.</i>		(AC.4)			
	,		16 1			

Observations - Item 3 e: Longitudinal Gradient in case of road in hilly/rolling

Ref. Between RD& RD	Longitudinal Gradient	S/U	Ref. Between RD& RD	Dongnudinal	S/U
				Gradient	
	,	2			

OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK: Earthwork: Observations – Item 4 a 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) 1600 SC	imammariam anti	If this item is graded U, w	rite clea	r reasons a	nd suggestions
Dbservations – Item 4 a 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)	improvement:	7		·	
Disservations – Item 4 a 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)		— North Charles			
bservations – Item 4 a 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)	1	and the second s			
bservations – Item 4 a 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)					
bservations – Item 4 a 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)		Sea -			
bservations – Item 4 a 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)					
bservations – Item 4 a 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)			1-0 1-1 1-1		
bservations – Item 4 a 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)			. 4		
bservations – Item 4 a 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)		, and the second second	i.		
Diservations – Item 4 a 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)			*		
bservations – Item 4 a 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)					
Diservations – Item 4 a 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)	DODDY	And the second second	·		
bservations – Item 4 a 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)	BSERVATIONS RE	EGARDING THE QUALIT	YOFI	CEMS OF	WORK.
On Visual Classification identify the Group Symbol and write 1600 SC Quality of material is acceptable. (Y/N)	Earthwork:				· · ORIK.
On Visual Classification identify the Group Symbol and write 1600 SC Quality of material is acceptable. (Y/N)	heervotions T	paris .			
On Visual Classification identify the Group Symbol and write 1600 SC Quality of material is acceptable. (Y/N)	A MATTER A LICEN				
1600 Symbol and write acceptable. (Y/N)	# Transfer 4	a Quality of Material for E	mbankn	nent/ Sub-	grade:
1600 SC Y	# Location (RD)	On Visual Classification in	dentify		
	# Location (RD)	On Visual Classification in	dentify	Quality	of material is
	Bocation (RD)	On Visual Classification in the Group Symbol and writer	dentify	Quality	of material is
	Bocation (RD)	On Visual Classification in the Group Symbol and writer	dentify	Quality	of material is
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	Bocation (RD)	On Visual Classification in the Group Symbol and write SC	dentify	Quality	of material is
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	Bocation (RD)	On Visual Classification in the Group Symbol and write SC	dentify	Quality	of material is
	Bocation (RD)	On Visual Classification in the Group Symbol and write SC	dentify	Quality	of material is
rade: U If this item is graded II	1600	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /
ggestions for improvement:	1600	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /
	1600	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /
	260ation (RD)	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /
	1600	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /
	1600	On Visual Classification is the Group Symbol and wri	dentify	Quality accepta	of material is ble. (Y/N) /

Observation - Item No. 4 b: Workmanship for Embankment and Sub-grade Construction: Degree of Compaction MDD kN/m3 Field Location Compaction Field Density Dry Density Moisture (As per (RD) kN/m^3 adequate. kN/m³ Content record) (Y/N)If this item is graded U, write clear reasons and suggestions for Grade \mathbf{U} improvement: Observation - Item No. 4 c, Side slopes and profile: Location (RD) Whether Side Slopes Whether profile is Satisfactory (Y/N) Satisfactory (Y/N) Observations- Item No. 4 d and e, Earth work in Hilly/Rolling terrain or high Location Cut Slopes & Profile, Adequate slope | Formation is properly (RD) whether appears to be protection works dressed executed. (Y/N) stable. (Y/N) and traffic worthy. (Y/N)

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improvement:	
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5. Sub-Base:

Observations- Item No. 5 a, b, c and d, 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)
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Grade: S U	If this item is graded	U, write clear rea	sons and suggestions
for improvement:		100	sons and suggestions
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	1	4	

6. Base Course:

Observations- Item No. 6 a, b, c and d, 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)	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)
	,		15 C.				

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
1	
9 9	

7. Bituminous Course: Premix Carpet/Surface Dressing/BM/MPM etc including Seal Coat: Observations- Item No. 7 a, b, and c, Quality of Material and Workmanship of BT Layer (in case of ongoing works):

#	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
	207000		ar leigh		limits. (Y/N)
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G	rade S	U If this item	is graded	U, Write	di	
in	provement:				#I	
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bs	ervations- I	tem No. 7 d ar	de. Worl	cmanship	of BT layer	(in case of completed
or	ks):			_		
Į.	Location	Th	ckness			surface evenness is
	(RD)	Thickness in		thickness	within acco	eptable limits. (Y/N)
	(-12)	mm		ite. (Y/N)		•
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			San .			
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	de: <u>S U</u> covement:		n is graded	i O, write (clear reasons	and suggestions for
						_
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,	Observat	tions- Item No.	8 a and b	, Quality	of Shoulder	s (in case of complete
or			74 No. 44			" case of complete
		of Whether	general	Whether	general	What
	observation	quality material acceptable.	of the is (Y/N)	quality workman acceptabl	of ship	Whether Camber Shoulders is adequate (Y/N)
	300m	7		``	1	
_	23000	1			113	7
			and the second		(*)	
			4:30			
				1.05		

Cross Drainage Works: Observations Item No. 9 a and b, Quality of CDs: general 9. Whether general quality of the material Whether Type of CD RD at which of quality CD is located workmanship is is acceptable. (Y/N) acceptable. (Y/N) HP (1×1000) 250 If this item is graded RI/U, write clear reasons and Grade: -8 suggestions for improvement: Side Drains and Catch water Drains: Observations: 10.

#	Reference of RDs where side drain constructed.	RD at which observation made.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)
		1.3		-

Grade: S RI U	If this item is	graded RI/U.	Write	olės	
suggestions for improvement:		,	wille	clear	reasons and
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U.					
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11. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains: Item

#	No. 11 a, b Reference of RDs, CC/SR Pavements provided.	RD at	1 (1 () 1	Acceptable (Y/N)	General quality of material is acceptable. (Y/N)	General quality of workmanship acceptable(Y/ N)
_	190000-	1910m	130m	m Y	7	7
	2180m		35-14L1			,
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	2000年11日1日		y 64 - i	
Grade: 8 U	If this item is graded U	J, write clear rea	sons and sugg	estions for
improvement:				
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12. Road Furniture and Markings

Observations - Item No. 12 a: Quality Road Furniture and Markings (in case of ongoing/completed works):

Main Informatory Board Fixed:

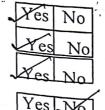
ed:

Citizen Information Board Fixed:

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

Observations - Item No. 12 b: Quality Road Furniture and Markings (in case of completed works):

- i. Logo Boards Fixed:
- ii. 200m. Stones fixed:
- iii. 1 Km. Stone fixed:
- iv. Guard Stones fixed on Curves:
- v. Mandatory and Cautionary Signage



Yes No

Grade: 8 U improvement:	If this item is graded	U, write clear reasons and suggestions for
	-	
		•

- 13. General Observations of NQM, (including the observations made during the interaction with PIU staff and Contractor/ Consultant Engineers):
 - a. 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):

b. 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:

c. 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):

d. 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).

e. 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).

14. Other observations, if any: - Stipulater date of completion is 21/07/14. Till now B.T. work is to be done.

15. Quality Grading of items and sub-items of work: The grading of every sub-

item and item of work is given below.

1 11	Sub item for observation	In case of work	Awardable Grades	Awarded Grade
1	2	35	4	5
广	Item 1 - Qua	lity Arrangements	3	
7.	Quality Arrangements	On-going	Direire	<u> </u>
	Item Grading		S/RI/U	5
	Item 2 - At	tention to Quality		
9	Maintenance of QC Registers	On-going	S/RI/U	3
l. s	Verification of test results	On-going/ Complete	S/U	_
	Item Grading		S/RI/U	S
		– Geometrics		
a	Road way width	de s.	S/U	S
b	Carriageway width	Ongoing or	S/U	S
c	Camber	complete	S/U	· •
d	Superelevation & Extra Widening at Curves		S/U	<u> </u>
е	Longitudinal Gradient in case of road in hilly/rolling terrain.	Ongoing/ complete	S/U	· · · · · · · · ·
	Item Grading		S/U	6
	Item 4 - Earth Work and Su	b-grade in Emban		ر
\Box	Quality of Material for Embankment/	- g. a.c. in Dinban	Cutti	ng
+	Sub-grade	Ongoing or complete	S/U	5
+	Compaction	Jampioto	S/U	
_	Side Slopes and Profile	Complete	S/U _	
1	Stability and Workmanship of Cut Slopes (in case of hilly/ rolling terrain)	Ongoing or	S/U	<u>, −</u> , ,
	Adequacy of Slope Protection (in case of high embankments/hilly/ rolling terrain)	complete	S/U	
\perp	Item Grading	- ic	2/11	
_	Item 5	- Sub-Base	S/U	S
(Grain Size	Ongoine		fl
F	Plasticity	Ongoing or complete	S/U	-
C	Compaction	Ongoing or	S/U	<u> </u>
Т	Total Thickness of Layer	Complete Ongoing or	S/U	,
	Item Grading	complete.	S/U	
		41	S/U	14

	Item 6 - Base Course - Water Bound Macadam S/U -					
T	Item 6 - Base Course -	Water Bound 1	S/U	_		
a	Grain Size of Course Aggregate	Ongoing or complete	S/U	_		
b	Plasticity of Crushable Aggregate used as fillers		S/U	_		
c	Adequacy of Compaction through volumetric analysis.		S/U	<u> </u>		
d	Thickness of every layer of WBM.		S/U			
	Item Grading			(CD)		
	Item 7 - Bituminous Layer – Premix	Carpet (PMC)/	Surface Dres	ssing (SD)		
a	Gradation of Aggregate	Ongoing	S/U			
b	Mixing Temperature of Mix.	Ongoing	S/U	-		
c	Laying Temperature of Mix.	Ongoing	S/U	_		
d	Thickness of layer	Ongoing or complete	S/U	S		
e	Surface Evenness	Ongoing or complete	S/U	S		
	Item Grading		S/U	S		
	Item 8 –	Shoulders				
a	Quality of material for shoulders	Complete	S/RI/U	S		
b	Degree of compaction	Complete	S/RI/U	_		
c	Camber.	Complete	S/RI/U	S		
	Item Grading		S/RI/U	5		
	Item 9 - Cross	Drainage Work	S			
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	Ongoing or complete	S/RI/U	S		
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.		S/RI/U	5		
	Item Grading	:	S/RI/U	C		
	Item 10 - Side Drain	and Catch Wate	r Drain			
	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	Ongoing or complete	S/RI/U			
	Item Grading	जेती हिंद	C/DI//			
Item 11 - CC/ Semi Rigid Pavements and Associated Pukka Drains Ouglity of Material - Concrete, Stone/ Ongoing						
	Item 11 - CC/ Semi Rigid Paven	Quality of Material - Concrete, Stone/ Ongoing or				
2	Quanty of Material Concress,	Ongoing or	T T T T T T T T T T T T T T T T T T T	rains		
a b	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc. Strength of CC in Concrete Pavement/	Ongoing or complete	S/U	rains S		

c	Quality of Workmanship – Wearing surface texture, Adequacy of setting		s/U	S	
H	of concrete, Joints, Edges etc.		S/U	5	
d	Thickness of Layer	(1)	0.//./		
	Item Grading		S/U	S	
-					
	Item 12 - Road Furniture and Markings				
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Ongoing	S/U	S	
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Complete	S/U	5	
c	Whether the information in boards is given in local language.	Complete/ Ongoing	S/U	S	
	Item Grading		S/Ü	5	

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

#	Item	Awarded Grade
1	Quality Control Arrangements	S
2	Attention to Quality	5
3	Geometrics	S
4	Earthwork and Sub-gradefin Embankment/Cutting	S
5	Granular Sub-base	
6	Base Course Non-Bituminous and shoulders	
7	Bituminous Sunfacing	Q
8	Shoulders	S
9	CD Works	S
10	Side Drains and Catch Water Drains	
/11	CC/Semi-Rigid Pavement and Associated Pukka Drains	S
12	Road Furniture and Markings	S
MIND HOUSE	Overall Grading	S

Signature:

Signature: 51318
Name: (DIP NARAYAN PRASAD)

Date: 28 12 18