MMGSY (GEN)

Format 1- Part I

Format for information to NOM for Inspection of Ongoing/Completed Work PART I- Work Information (To be filled-up by PIU)

05.	Work is Ongoing Completed
	ERAL:
1.1.	Date of Inspection: 28-12-2018
1.2.	Name of National Quality Monitor: Bindhyahasan Kumar That of
1.3.	State: Bihar District: Darbharga Block: Taradih
1.4.	Name of Road: From Lo26 Mahia to Rahi Tola
1.5.	Package No.:
1.6.	Length:Km Flexible Pavement,Km. CC/other Pavement = Total
2:865.	Km.
1.7.	Estimated Cost (As cleared by GOI): Rs. 216-74 Lakh
1.8.	Technical Sanction Cost: Rs. 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: 20 07 2016
1.12.	Stipulated Date of Completion: 19 07 2017
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction
Progra	mme and Physical Progress:

2.	PHYSICAL PROGRESS: (In case of On going works only) Construction	n
Progr	nme and Physical Progress:	

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Preparatory Work	percentage of item	Due	Date	Date	Wionins
reparatory work		Actual			
Earth Work		Due			
		Actual			
CD Works		Due			
		Actual			
Sub base i/c		Due			
Shoulders		Actual			
Base Course (Non		Due			
Bitu.)		Actual			
Base /Wearing		Due			
Course(Bitu.)		Actual			
CC Pavement		Due			A FIGURE
		Actual			
Signage etc		Due			
		Actual			1

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:

#		Whether Equipments (Y/N)	necessary available	Whether Equipments have been used (Y/N)
	Y	y		y

Grading: Grade: suggestions for in	S	RI	U ent:	If this item is graded RI/U, write clear reasons and
				2

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

Observations - Item 2a: Maintenance of QC Registers:

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

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

#	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)

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

3. GEOMETRICS: The NQM should take at-least two measurements in 1 Km length and if it is found that the roadway and carriageway is inadequate NQM may take more observations:

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

Ref. RD	Roadway Width (m)	Carriageway Width (m)	Ref. RD	Roadway Width (m)	Carriageway Width (m)
100M	6.00 M	3.75			
1000 M	5.0 M	3.75			

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)
800 M	71.	Y			
					A FIRST

Observations – Item 3 e: 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
		N	1		

	ade S U I	f this item is graded U, write clear	reasons and suggestions f
		S	
		3	
192			
OBS 4	ERVATIONS REC	GARDING THE QUALITY OF IT	EMS OF WORK:
Obse	rvations – Item 4 a	Quality of Material for Embankm	nent/ Sub-grade:
#	Location (RD)	On Visual Classification identify the Group Symbol and write	Quality of material is acceptable. (Y/N)
	1000 M	Sacoly Sei).	y
		0	
Grad sugg	de: S U estions for improver	If this item is graded U, write cleanent:	ar reasons and
		\$	

Observation - Item No. 4 b: Workmanship for Embankment and Sub-grade Construction: Location MDD kN/m³ Field Degree of Compaction (RD) (As per Moisture Field Density Dry Density Compaction record) kN/m^3 Content kN/m3 adequate. (Y/N) Grade: If this item is graded U, write clear reasons and suggestions for improvement: Observation - Item No. 4 c, Side slopes and profile: # Location (RD) Whether Side Slopes Whether profile is Satisfactory (Y/N) Satisfactory (Y/N) 1 000 M M Observations- Item No. 4 d and e, Earth work in Hilly/Rolling terrain or high Embankments: Cut Slopes & Profile, Formation is properly Location Adequate slope (RD) whether appears to be protection works dressed and traffic stable. (Y/N) executed. (Y/N) worthy. (Y/N)

Grade: S U improvement:	If this item is graded U, v	vrite clear reason	s and suggestions for
	U		

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)
	1500	y	У	У	7	Y

Grade: [for improv	S U ement:	If this item is graded U, write clear reasons and suggest	ions
		S	
		34	
	1 4 1	74	

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)
				- In	Proper		

Grade: improver	U	If this item is graded U, write clear reasons and suggestions for
		- NA -

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 limits. (Y/N)
				NA -	

	rade: S [If this iten	n is grade	ed U, write	clear reason	ns and suggestions for
Ob wor	servations- It rks):	tem No. 7 d ar	id e, Wor	kmanship	of BT layer	(in case of completed
#	Location		ckness			surface evenness is
	(RD)	Thickness in mm		thickness ate. (Y/N)	within acco	eptable limits. (Y/N)
				-		
	ide: S U	If this item	n is grade	d U, write o	lear reasons	and suggestions for
np	rovement:					
or	Observation (ks):	ons- Item No.	8 a and b	o, Quality o	of Shoulders	(in case of completed
	RD of	f Whether	general		general	Whether Camber in
	observation	quality of material	is	workmans	of hip is	
		acceptable.	(Y/N)	acceptable	. (Y/N)	
		10 24 2 20 0	hos	7 n.	fore	ox.
	1			1.		
				1		
STATE OF		The same				

9. Cross Drainage Works: Observations Item No. 9 a and b, Quality of CDs:

#	RD at which CD is located	Type of CD	Whether general quality of the material is acceptable. (Y/N)	
	850 M	2×1 M +	Y	Y

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

10. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	RD at which observation made.	of the side drains/ catch-	are integrated to
			NP	

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

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

#	Reference of RDs, CC/SR	RD at which	Thic	kness	General	General
	Pavements provided.	observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)
	0 To 550	300 M	165	Y	y	Y
	1>15 70 2265					
					4	
	Silly make					483

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	S
The same	Charles Carlotte Control of the Cont

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:

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	-
Yes	No	-
Yes	No	/

Yes	No
Yes	No

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

- 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):

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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:

wern is debyed.

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):

In frynces.

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).

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14. Other observations, if any:

15. 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	In case of work	Awardable Grades	Awarded Grade
	2	3	4	5
-	Quality A Item 1 - Qua	lity Arrangemen	ts	
	Quality Arrangements	On-going	S/RI/U	2
	Item Grading		S/RI/U	S
0	Maint Item 2 - At	tention to Quality	y	
a	- Registers	On-going	S/RI/U	SRI
b	Verification of test results	On-going/ Complete	S/U	
	Item Grading		S/RI/U	SRI
	Item 3	- Geometrics		
a	Road way width		S/U	5
b	Carriageway width	0	S/U	3
c	Camber	Ongoing or complete		
d	Superelevation & Extra Widening at Curves	Complete	S/U S/U	5
e	Longitudinal Gradient in case of road in hilly/rolling terrain.	Ongoing/ complete	S/U	
	Item Grading	Complete	S/U	5
	Item 4 - Earth Work and Sub	o-grade in Emban	Irmant/C-44	2
a	Quality of Material for Embankment/ Sub-grade	Ongoing or	S/U	S
)	Compaction	complete	S/U	
:	Side Slopes and Profile	Complete	S/U	5
1	Stability and Workmanship of Cut Slopes (in case of hilly/rolling terrain)	Ongoing or	S/U	7
1	Adequacy of Slope Protection (in case of high embankments/hilly/ rolling terrain)	complete	S/U	-
	Item Grading		S/U	5
	Item 5 -	Sub-Base		
(Grain Size	Ongoing or	S/U	5
1	Plasticity	complete	S/U	S
(Compaction	Ongoing or complete	S/U	5
7	Total Thickness of Layer	Ongoing or complete	S/U	4
Sec.	Item Grading		S/U	2

	Item 6 D			
a	Grain Size of Course A	e - Water Bound	Macadam	
b	Grain Size of Course Aggregate Plasticity of Crushable Aggregate used as fillers		S/U	
c	Adequacy of Compaction the	Ongoing or complete	S/U	PA
d	volumetric analysis. Thickness of every layer of WBM.		S/U	1
			S/U	/
	Item 7 Div.		S/U	
	Item 7 - Bituminous Layer - Prem	ix Carpet (PMC)/	Surface Dr	essing (SD)
a	Gradation of Aggregate	Ongoing	S/U	1/393
b	Mixing Temperature of Mix.	Ongoing	S/U	v.
c	Laying Temperature of Mix.	Ongoing	S/U	ag in
d	Thickness of layer	Ongoing or complete	S/U	DAJK.
e	Surface Evenness	Ongoing or complete	S/U	/
*	Item Grading		S/U	
	Item 8	- Shoulders		
a	Quality of material for shoulders	Complete	S/RI/U	SRI
b	Degree of compaction	Complete	S/RI/U	SRI
c	Camber.	Complete	S/RI/U	-
	Item Grading		S/RI/U	SRI
	Item 9 - Cross	Drainage Works		
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	Ongoing or	S/RI/U	2
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	complete	S/RI/U	2
	Item Grading	Part of the second	S/RI/U	(
	Item 10 - Side Drain	and Catch Water		
	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	Ongoing or complete	S/RI/U	2
	Item Grading		S/RI/U	- 11
	Item 11 - CC/ Semi Rigid Pavem	ents and Associat	ed Pukka D	rain
	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	Ongoing or	S/U	rains
	Strength of CC in Concrete Pavement/ Concrete Block Pavement	complete	S/U	2

c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.		S/U	13
d	Thickness of Layer		S/U	S
	Item Grading		S/U	2
	Item 12 - Road Fur	niture and Mar	kings	
a	Informatory Board, Quality and whether fixed during construction.	Ongoing	S/U	, K
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Complete	S/U	of for en
c	Whether the information in boards is given in local language.	Complete/ Ongoing	S/U	/
	Item Grading		S/U	

16. 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	SRI
3	Geometrics	5
4	Earthwork and Sub-grade in Embankment/Cutting	2
5	Granular Sub-base	1
6	Base Course Non-Bituminous and shoulders	
7	Bituminous Surfacing	
8	Shoulders	SR1
9	CD Works	2
10	Side Drains and Catch Water Drains	-
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	2
12	Road Furniture and Markings	
	Overall Grading	

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