

Annexure 1
Format 1- Part I

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 28-12-18
- 1.2. Name of State Quality Monitor: Er. Shripalaksh
- 1.3. District: PATNA Block: MANER
- 1.4. Name of Road: From NH 30, Maner to Mulanipur to Nagah to La
- 1.5. Package No.:
- 1.6. Length: 2.0 Km Flexible Pavement, 2.0 Km CC/other Pavement 2.0 m, Total 2.0 Km
- 1.7. Estimated Cost (As cleared by GOI): Rs. 151.16 Lakh
- 1.8. Technical Sanction Cost: Rs. 140.8856 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: 11 02 17
- 1.12. Stipulated Date of Completion: 30 12 17
- 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	90%	Due			
		Actual			
CD Works	70%	Due			
		Actual			
Sub base i/c Shoulders	90%	Due			
		Actual			
Base Course (Non Bitu.)	90%	Due			
		Actual			
Base/Wearing Course (Bitu.)	90%	Due			
		Actual			
CC Pavement	100%	Due			
		Actual			
Signage etc	60%	Due			
		Actual			

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

As per I

Item 5B - Earth Work in Cutting in Hilly/ Rolling 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	N.A.
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	S
Item 6 - Sub-Base				
Quality of Material				
a	Grain Size	In Stage- II or III, 1 per km	S/U	S
b	Plasticity		S/U	S
c	Compaction	In Stage- II or III, 1 per km	S/U	S
d	Total Thickness of Layer	2 per Km	S/U	S
Item Grade			S/U	S
Item 7 - Base Course - Water Bound Macadam				
a	Grain Size of Coarse Aggregate	In Stage- II or III, 1 per km	S/U	N.A.
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type		S/U	
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	
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	
Item Grade			S/U	

AS per I

Item 8 - Bituminous Layer - Premix Carpet (PMC)/ Surface Dressing (SD)				
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	N.A.
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	N.A.
c	Gradation Test for Coarse 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	Grade 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.
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	—
f	Thickness of layer	2 per Km	S/U	S
g	Surface Evenness in case of completed BT work	2 per Km	S/U	S
Item Grade			S/U	S
Item 9 - Shoulders				
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	S
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	—
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	—
Item Grade			S/SRI/U	S
Item 10 - Cross Drainage Works - Causeways of all spans and Calverts upto 6 m. span.				
a	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	S
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	S
Item Grade			S/SRI/U	S

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	S
Item Grade			S/SRI/U	S
Item 12 - CC/ Semi Rigid Pavements and Associated Pukka Drains				
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
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	S
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 - Road Furniture and Markings				
a	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	S
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 Grade
Item No 1	Setting Out and Working Drawing	S
Item No 2	Site Clearance and Grubbing	S
Item No 3	Quality Arrangements	S
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	N. A.
Item No 6	Sub-Base	S
Item No 7	Base Course – Water Bound Macadam	N. A.
Item No 8	Bituminous Layer – Premix Carpet (PMCY/ Surface Dressing (SD)	S
Item No 9	Shoulders	N. A.
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	S
Item No 11	Side Drain and Catch Water Drain	S
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	S
Item No 13	Road Furniture and Markings	S
Overall Grading		S

As per I.E.

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Signature:

Name:

Date:

28/12/18

(Shri Pankaj)

28/12/18

(Ex. I.E.)

R. W. D., W. D. Banky