

Format 1- Part I

Format for information to SQM for Inspection of PMGSY Work

PART I- Work Information (To be filled-up by PIU)

GENERAL:

Work Is ☒ Ongoing ☒ Completed

- 1.1. Date of Inspection: DD MM YY 27.12.2018.
- 1.2. Name of State Quality Monitor: Er. VINOD KUMAR RAY.
- 1.3. District: MVZAPPA RAY Block: Dumra Mihapur
- 1.4. Name of Road: From L-33 - L-34 to Maalhar pur
- 1.5. Package No.: BR-23R.441
- 1.6. Length: 0.6 Km Flexible Pavement, 0.35 Km. CC/other Pavementm.
= Total 0.95 Km
- 1.7. Estimated Cost (As cleared by GOI): Rs. 56.01 Lakh including Maintenance
- 1.8. Technical Sanction Cost: Rs. 55.50 Lakh Rivised T/S
- 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: 14 07 17
- 1.12. Stipulated Date of Completion: 13 07 18
- 1.13. Actual Date of Completion (if work completed): 05 07 18
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	100%	Due			
		Actual			
CD Works	100%	Due			
		Actual			
Sub base i/c Shoulders	100%	Due			
		Actual			
Base Course (Non Bitu.)	100%	Due			
		Actual			
Base /Wearing Course (Bitu.)	100%	Due			
		Actual			
CC Pavement	100%	Due			
		Actual			
Signage etc	100%	Due			
		Actual			

3. **QUALITY CONTROL:**

3.1. Location of Field Laboratory:

3.2. Quality Control Register Part-I is maintained by: *Contractor*

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

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
10.2.18	Singh Baban Jee. (S.B.M.)	Satisfactory	
23.3.18	Saxena Madhawa (S.B.M.)	Satisfactory	
27.9.18	Subodh K. Singh - S.B.M.	Satisfactory	

Name and Signature of the Head of PIU Date *29/12/18*
Executive Engineer
 RWD WD Muz. East-2

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	—
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

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	1
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	
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 Course Aggregate	In Stage- II or III, 1 per km	S/U	S
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type		S/U	S
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	S
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	S
e	Thickness of every layer of WBM.	2 per Km	S/U	S
Item Grade			S/U	S

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	6
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	5
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 inspection	S/U	5
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	5
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	6
f	Thickness of layer	2 per Km	S/U	5
g	Surface Evenness in case of completed BT work	2 per Km	S/U	3
Item Grade			S/U	5
Item 9 – Shoulders				
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	5
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	5
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	5
Item Grade			S/SRI/U	5
Item 10 - Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.				
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	5
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	5

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	3
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	3
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 inspection	S/U	3
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	—
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	—
f	Thickness of layer	2 per Km	S/U	3
g	Surface Evenness in case of completed BT work	2 per Km	S/U	3
Item Grade			S/U	3
Item 9 - Shoulders				
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	3
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	3
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Item Grade			S/SRI/U	3
Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 m. span.				
a	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	3
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	3
Item Grade			S/SRI/U	4

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	5
Item Grade			S/SRI/U	
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	—
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	5
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	—
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	5
Item Grade			S/U	5
Item 13 - Road Furniture and Markings				
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/U	5
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	5
Item Grade			S/U	5

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	5
Item No 2	Site Clearance and Grubbing	5
Item No 3	Quality Arrangements	5
Item No 4	Geometrics	5
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	5
Item No 5 B	Earth Work in Cutting in Hilly/ Rolling Terrain	5
Item No 6	Sub-Base	5
Item No 7	Base Course – Water Bound Macadam	5
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	5
Item No 9	Shoulders	5
Item No 10	Cross Drainage Works – Sewers of all Spans and Culverts up to 6 m. span.	5
Item No 11	Side Drain and Catch Water Drain	—
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	5
Item No 13	Road Furniture and Markings	5
Overall Grading		5

Signature :

Name:

Date:

Jan
29/12