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

| GENERAL:  1.1. Date of Inspection: DD MM YY 29.12, 2018  1.2. Name of State Quality Monitor:  1.3. District: Last champaren Block: Pachi  1.4. Name of Road: From Chakburchiya Mukhyto 3 araiya Sami  1.5. Package No.: MM 6 Sy (M ABARD) Path  1.6. Length: Mm Flexible Pavement,Km. CC/other Pavementm. =  Total Stigk Km  1.7. Estimated Cost (As cleared by GOI): Rs. 22.48 Lakh  1.8. Technical Sanction Cost: Rs. 29.87 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: 27 4 2018  1.12. Stipulated Date of Completion: 26 01 2019  1.13. Actual Date of Completion (if work completed): In Progress:  PHYSICAL PROGRESS: (In case of On going works only) Construction Programme and Physical Progress:   |       | Work is Ongoing Completed                             |
|---|-------|---|
| 1.2. Name of State Quality Monitor:  1.3. District: Last champaren Block: Pachi  1.4. Name of Road: From Chakhurchiya Mukhyto 3 araiya Sami  1.5. Package No.: Mrs Sy (Nabard) Path  1.6. Length: Syckm Flexible Pavement,Km. CC/other Pavementm. =  Totale: Syckm  1.7. Estimated Cost (As cleared by GOI): Rs. 22.48 Lakh  1.8. Technical Sanction Cost: Rs. 29.87 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: 27 4 2018  1.12. Stipulated Date of Completion: 26 01 2017  1.13. Actual Date of Completion (if work completed): PHYSICAL PROGRESS: (In case of On gains work to be a connective to the connective to the completed): PHYSICAL PROGRESS: (In case of On gains work to be a connective to the connective to the completed): PHYSICAL PROGRESS: (In case of On gains work to be a connective to the conn              |       |   |
| 1.2. Name of State Quality Monitor:  1.3. District: Last champered Block: Pachi  1.4. Name of Road: From Chakhurchiya Mukhyto Saraiya Same  1.5. Package No.: Mrs Sy (Mabard) Path  1.6. Length: Syskm Flexible Pavement,Km. CC/other Pavementm. =  1.7. Estimated Cost (As cleared by GOI): Rs. 22.48 Lakh  1.8. Technical Sanction Cost: Rs. 29.87 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: 27 4 2018  1.12. Stipulated Date of Completion: 26 01 2019  1.13. Actual Date of Completion (if work completed): In Grague of On acing work by the last of last of last of the last of l            |       | Date of Inspection: DD MM VV 29.12 2019               |
| 1.3. District: Last champered Block: Patchi  1.4. Name of Road: From Chakhurahiya Mukhyto 3 graiya Sami  1.5. Package No.: MMG Sy (NABARD) Path  1.6. Length: Sy Km Flexible Pavement,Km. CC/other Pavementm. =  Total Sy Km  1.7. Estimated Cost (As cleared by GOI): Rs. 32.48 Lakh  1.8. Technical Sanction Cost: Rs. 29.87 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:  1.12. Stipulated Date of Completion: 26 01 2019  1.13. Actual Date of Completion (if work completed): In Progress  2. PHYSICAL PROGRESS: (In case of On revive works to be sometimes works to be supported).   |       | Name of State Quality Monitor:                        |
| 1.5. Package No.:  1.6. Length: Syckm Flexible Pavement,Km. CC/other Pavementm. =  1.7. Estimated Cost (As cleared by GOI):  1.8. Technical Sanction Cost:  1.9. The Work is a Case of:  1.10. Terrain  1.11. Date of Start of the Work:  1.12. Stipulated Date of Completion:  1.13. Actual Date of Completion (if work completed):  1.14. Physical Sanction Physical Sanction Sarray Same Sanction Sarray Sanction Sanction Sarray Sanction Sanc             | 1.3.  | District: East champeren Block: Poleti                |
| 1.6. Length: Signature Cost (As cleared by GOI):  Rs. 22.48 Lakh  1.8. Technical Sanction Cost:  Rs. 29.87 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:  27 4 2018  1.12. Stipulated Date of Completion:  26 01 2017  1.13. Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On regime works)   | 1.4.  | Name of Road! From                                    |
| 1.6. Length: 546 Km Flexible Pavement,Km. CC/other Pavementm. =  Total: 546 Km  1.7. Estimated Cost (As cleared by GOI): Rs. 22.48 Lakh  1.8. Technical Sanction Cost: Rs. 29.87 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: 27 4 2018  1.12. Stipulated Date of Completion: 26 01 2019  1.13. Actual Date of Completion (if work completed): PHYSICAL PROGRESS: (In case of On gains works to be a connective to the complete of the com            | 1.5.  | De 1 37 Comme Saraiva Comme                           |
| 1.7. Estimated Cost (As cleared by GOI):  Rs. 22.48  Lakh  1.8. Technical Sanction Cost:  Rs. 29.87  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:  27 4 2018  1.12. Stipulated Date of Completion:  26 01 2019  1.13. Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On reins works and the start of the start of the work completed):   | 16    |   |
| 1.7. Estimated Cost (As cleared by GOI):  Rs. 22.48  Lakh  1.8. Technical Sanction Cost:  Rs. 29.87  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:  27 4 2018  1.12. Stipulated Date of Completion:  26 01 2019  1.13. Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On reins works and the start of the start of the work completed):   | Total | Eength:Km Flexible Pavement,Km. CC/other Pavementm. = |
| 1.8. Technical Sanction Cost:  Rs. 29.87 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:  27 4 2018  1.12. Stipulated Date of Completion:  26 01 2013  1.13. Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On soing work to the Complete of Complete | 1.7.  | Estimated Cost (As cleared by COD)                    |
| 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:  27 4 2018  1.12. Stipulated Date of Completion:  26 01 2019  1.13. Actual Date of Completion (if work completed):  2. PHYSICAL PROGRESS: (In case of On soing work to the Complete of Completion)   | 1.8.  | Technical Sanction Cost:                              |
| 1.11. Date of Start of the Work:  1.12. Stipulated Date of Completion:  1.13. Actual Date of Completion (if work completed):  2. PHYSICAL PROGRESS: (In case of On gaing work and the completed)  | 1.9.  | The Work is a Case of                                 |
| 1.12. Stipulated Date of Completion:  26 01 2019  1.13. Actual Date of Completion (if work completed):  2. PHYSICAL PROGRESS: (In case of On gaing work to 1) 6   | 1.10. | Terrain Plain Rolling Hilly                           |
| 1.12. Stipulated Date of Completion:  26 01 2019  1.13. Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On gaing work 1) 6   | 1.11. | Date of Start of the Work:                            |
| 1.13. Actual Date of Completion (if work completed):  2. PHYSICAL PROGRESS: (In case of On gains were 1) 6  | 1.12. | Stipulated Date of Completion                         |
| 2. PHYSICAL PROGRESS: (In case of On going week)  | 1.13. | Actual Date of Completion (if work completed):        |
|   | 2.    | PHYSICAL PROGRESS: (In case of On going work 1)       |

| Item             | Completed percentage of Item | Dates for completion | Start     | Completion Date    | Delay in |
|------------------|------------------------------|----------------------|-----------|--------------------|----------|
| Earth Work       | 80%                          | Due                  | Date      | Date               | Months   |
| CD W 1           | 00/1                         | Actual               |           |                    |          |
| CD Works         |                              | Due                  |           |                    |          |
| C 1 1 ·/         |                              | Actual               |           |                    |          |
| Sub base i/c     | 100%                         | Due                  |           |                    |          |
| Shoulders        |                              | Actual               |           |                    |          |
| Base Course (Non | 100%                         | Due                  |           |                    |          |
| Bitu.)           | . 0                          | Actual               |           | 1                  |          |
| Base /Wearing    | 20%                          | Due                  |           |                    |          |
| Course(Bitu.)    |                              | Actual               |           |                    |          |
| CC Pavement      | Aame                         | Due                  | S OI LESS | 36 25 98 8 8 8 1 , |          |
| Q.               |                              | Actual               |           |                    |          |
| Signage etc      | 40%                          | Due                  |           |                    |          |
|                  | <u> </u>                     | Actual               |           |                    |          |

#### 3. QUALITY CONTROL:

- **3.1.** Location of Field Laboratory:
- 3.2. Quality Control Register Part-I is maintained by: Agency
- 3.3. Quality Control Register Part-II is maintained by: A epartmental.

## 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<br>Visit | Inspected<br>By | Observations   | Action Taken by PIU with Date  |
|------------------|-----------------|--|--|
|                  | g: Grade (*)    | R1 17 Pale item is regular   | RI/U, write clear reasons and  |
|                  |                 |  |  |
|                  |                 |  |  |
| 2.               |                 | NCS AND GOT PRING; FOR   | Stage Lof Work   |
|                  |                 | and availtying existing work  officer be salvaged an treused (Y/N) | obtainable from clearance or<br>soarification and indicate<br>approximate partitive and as |
|                  |                 |  |  |

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.)

|    | Stage of Work:             | I III IIII and are being u |
|----|----------------------------|----------------------------|
| ١. | SETTING OUT AND WORKING DR |                            |

| #   | Whether       | Exact | t     |       | Whether Center Line of       | Whether      | properly        |
|-----|---------------|-------|-------|-------|------------------------------|--------------|-----------------|
|     | Bench         | Locat | tions | s of  | Carriage Way accurately      | prepared     | Working         |
| 130 | marks @ 4     | the   | В     | Bench | established and              | Drawing      | for the work    |
| 386 | per km        | Mark  | S     |       | referenced with Marker       | under        | progress is     |
|     | established   |       |       |       | Pegs and Chainage            | available    | (Y/N)           |
|     | (Y/N)         | Work  |       | heet  | Boards (Y/N)                 | Tests        | No. of Test     |
|     | Executed      |       |       |       | Test require                 |              |                 |
|     |               |       |       |       |                              |              | PHECOutracia    |
| Gi  | rading: Grade | : S S | SRI   | U     | If this item is graded SRI/U | J, write cle | ear reasons and |

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

#### 2. SITE CLEARANCE AND GRUBBING: For Stage I of Work

| # | Grubbing being done as per DPR and Material obtained is | available from scarifying existing work | Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU. |
|---|---|---|--|
|   | nandatory tests conducted.  Yes Partly Na               | provisions [Yes [Partly] No.]           | results monitored as per provisions.  [Yes   Partly No.  |

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

## QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all stages of work Observations about Field Laboratory:

| # | Whether Field laboratory Established (Y/N) | List the available. | equipments | Whether adequate Equipments as per requirement of work are available and are being used.  (Y/N) |
|---|--|---------------------|------------|---|
|   | Y  |                     |            | Υ.  |

Observations about Mandatory Tests - Detail out the quantities of various items of

| #   | Item of Work<br>Executed               | Quantity             | Name of<br>Test                            | No. requir  | of Tests    | No. of Tests<br>Conducted by<br>PIU/Contractor       |
|-----|--|----------------------|--|-------------|-------------|--|
|     | Ref.   Super                           | Extra                | Ref. RL                                    |             | Stance      | 110/Contractor                                       |
|     | 20070000                               | provided ( )         |  |             | 0.0141.035  | (1/N)  |
|     |  |                      |  |             |             |  |
|     |  |                      |  |             |             |  |
|     |  |                      |  |             |             |  |
|     | vada E H 3                             | Sue lines is         | eraded 11 so                               | to plant    | resonne a   | nd suggestions for                                   |
|     | Oprovaniant                            |                      |  |             |             |  |
|     |  |                      | 2773                                       |             |             |  |
|     |  |                      |  | 2 - 1       |             |  |
|     |  |                      |  |             |             |  |
| #   | quantities whether                     | all I mai            | her QC Registe<br>ntained as per<br>sions. | er Part     | II maintai  | QC Register Part<br>ined and test<br>onitored as per |
|     | Yes Partly N                           | 0                    | Yes Partly N                               | 10          |             | Partly No  |
|     | a to a contract of the second          | OR SPECIAL PROPERTY. | TOE ROSSOSIDAD                             | RELEATED TO | Organismo   |  |
| Cri | adings Crades   C C                    | DI II IC             | 1  | 1 1 222     | 21.683      | and a series of                                      |
|     | ading: Grade: SS gestions for improver |                      | his item is grad                           | ded SRI     | /U, write c | lear reasons and                                     |
|     |  |                      |  |             |             |  |
|     |  |                      | 0  |             |             |  |

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.<br>RD | Roadway<br>Width<br>(m) | Carriage<br>way Width<br>(m) | Camber in % | Ref.<br>RD | Roadway<br>Width<br>(m) | Carriage<br>way<br>Width (m) | Camber in % |
|------------|-------------------------|------------------------------|-------------|------------|-------------------------|------------------------------|-------------|
| 0/10       | 6.00                    | 3.75                         | 3.1 %       |            |                         |                              |             |
| 0/310      | 6.00                    | 3.75                         | 3.05%       |            |                         |                              |             |
|            |                         |                              |             |            |                         |                              |             |

## Observations - Super-elevation and Extra Widening at curves.

| Ref.<br>RD | Super<br>Elevation | Extra Widening provided (Y/N) | Ref. RD | Super<br>Elevation | Extra Widening provided (Y/N) |
|------------|--------------------|-------------------------------|---------|--------------------|-------------------------------|
|            |                    |                               |         |                    |                               |
|            |                    |                               |         |                    |                               |
|            |                    |                               |         |                    |                               |

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

## OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

#### 5. Earthwork:

## Observations -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) |
|---|---------------|--|--|
|   | 0/210         |  |  |
|   |               |  |  |
|   |               |  |  |
|   |               |  |  |
|   |               |  |  |

|         | rade:ggestions fo  | S U                           | t:                  | s graded U, write               | ciear reasons                    | and                        |
|---------|--------------------|-------------------------------|---------------------|---------------------------------|----------------------------------|----------------------------|
|         |                    |                               |                     |                                 |                                  |                            |
|         |                    |                               |                     |                                 |                                  |                            |
| b       | servation –        | Workmanship                   | o for Embar         | nkment and Sub                  | o-grade Consti                   | uction:                    |
| #       | Location           | MDD kN/m <sup>3</sup>         | Field               | Deg                             | gree of Compac                   | tion                       |
|         | (RD)               | (As per record)               | Moisture<br>Content | Field Density kN/m <sup>3</sup> | Dry Density<br>kN/m <sup>3</sup> | Compaction adequate. (Y/N) |
|         |                    |                               |                     | and the second                  |                                  | - 13                       |
|         |                    |                               |                     |                                 |                                  |                            |
|         |                    |                               |                     |                                 |                                  |                            |
| -       |                    |                               |                     |                                 |                                  |                            |
|         | Parties S          | G Iftisis i                   |                     | less seeds finance              |                                  |                            |
|         | mpto ve men        |                               |                     | 6                               |                                  |                            |
|         |                    |                               |                     |                                 |                                  |                            |
|         |                    |                               | em is grade         | I U write clear r               | easons and sug                   | gestions for               |
|         | rade: S            | U If this it                  | ciii is gradet      | e, write crear i                | _                                |                            |
|         | rade: S provement: | U If this it                  | em is graded        | s o, write ordar r              |                                  |                            |
|         |                    | U If this it                  |                     |                                 |                                  |                            |
|         |                    | U If this it                  | ciii is gradet      |                                 | _                                |                            |
|         |                    | U If this in                  |                     |                                 |                                  |                            |
|         |                    | U If this in                  |                     |                                 |                                  |                            |
|         |                    | U If this is                  |                     |                                 |                                  |                            |
| m       | provement:         | - Quality of 3                | ialaren ane         |                                 |                                  |                            |
| m       | provement:         | U If this is                  | ialaren ane         |                                 | Charvet                          | Prescribe                  |
| m       | servation –        | Side slopes ar                | ad profile:         | Solopes                         | Whether profi                    | Prescribe                  |
| bs #    | servation –        | Side slopes ar                | d profile:          | Solopes                         | Observed a 1940 france           | le is                      |
| os<br># | servation –        | Side slopes ar                | ad profile:         | Solopes                         | Whether profi                    | le is                      |
| m<br>#  | servation –        | Side slopes ar on (RD) Wh Sat | ad profile:         | Solopes                         | Whether profi                    | le is                      |

#### Observations - Earth work in Hilly/Rolling terrain or high Embankments:

| # | Location (RD) |      | Formation is properly dressed and traffic worthy. (Y/N) |
|---|---------------|------|---|
|   |               |      |   |
|   |               |      |   |
|   |               | N.A. |   |
|   |               |      |   |
|   |               |      |   |

#### Observations – Longitudinal Gradient in case of road in hilly/rolling terrain:

| Ref. Between RD& RD | Longitudinal<br>Gradient | S/U  | Ref. Between RD& RD | Longitudinal<br>Gradient | S/U   |
|---------------------|--------------------------|------|---------------------|--------------------------|-------|
| W                   | BM   (YA)                |      | 10 10 10 10 10      | openent ofis i           | 05361 |
|                     | 1                        | H.A. |                     | COURSE                   | (N)   |
| LI OZIO GIA         |                          |      |                     |                          |       |

| Grade: S U If this item is graded U, write cle improvement:   | ear reasons and suggestions for |
|---|---------------------------------|
|   |                                 |
| With the state of | mess in about 200 m critical    |
| Suppose making that he  |                                 |

#### 6. Sub-Base:

#### Observations - Quality of Material and Workmanship:

| #  | Location (RD) | Confirms<br>to<br>Grading.<br>(Y/N) | Suitable from plasticity angle. (Y/N) | Whether compaction is adequate. (Y/N) | Observed<br>Thickness<br>of Layer<br>(in mm) | Prescribed Thickness provided (Y/N) |
|----|---------------|-------------------------------------|---------------------------------------|---------------------------------------|--|-------------------------------------|
| 1. | 0/10          | X                                   | I                                     | Y                                     | 172mm  | 7                                   |
| 2. | 0/310         | Y                                   | Y                                     | Y                                     | 173 mm                                       | 7                                   |
|    |               |                                     |                                       |                                       |  | •                                   |
|    |               |                                     |                                       |                                       |  |                                     |
|    |               |                                     |                                       |                                       |  |                                     |

| Grade: for improvem | S U If this item is graded U, write clear reasons and suggestions lent:  |
|---------------------|--|
|                     |  |
|                     | about level of cleanliness of WBM surface prior to application of tyes. (If work is ongoing observe the surface. If BT layer laid, |
| assess by care      | efully removing the BE layer.):  |

#### 7. Base Course:

## Observations- Quality of Material and Workmanship of WBM:

| #   | (RD) | Thickness<br>of each<br>layer of<br>WBM<br>(mm) | Thickness<br>is<br>adequate.<br>(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 | Whether adequate compaction is done.  (Y/N) |
|-----|------|---|---------------------------------------|-------------------------------------|---|---|---|
| 1.  | 0/10 | Gr-III-75mm                                     | Y                                     | Y                                   | (17N)   | aggregate                                   | <u> </u>                                    |
| 20. |      |   |                                       |                                     |   |   |   |
|     |      |   |                                       |                                     |   |   |   |

Observations - Surface evenness: Surface evenness in about 200 m critical representative length of completed WBM:

Surface evenness has been found Satisfactory at chainage 310m.

| 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.):

13.7. WORR TS In progress.

**Observations** about Quality of Prime Coat and Tack Coat with respect to quality of material and workmanship - Visual Observation - if work is ongoing:

Satis-Pactory

In case of PMC/BM/MPM/ Seal Coat

| # RD of observation | Aggregate confirms to grading.  (Y/N) | approved grade. (Y/N) | and whether it is in permissible limits. (Y/N) | and whether it is in permissible limits. (Y/N) |
|---------------------|---------------------------------------|-----------------------|--|--|
|                     |                                       | Y/N)                  | prable (VAD) wi                                | h sub-base and<br>c course (Y/N)               |

| Obs         | servations - ·ks): | Workmansh                        | ip of BT layer l                               | PMC/E                             | BM/MPM (in   | n case of completed  |
|-------------|--------------------|----------------------------------|--|-----------------------------------|--|--|
| #           | Location           | Т                                | hickness                                       | 201000                            | Whathan  | 1146 C   |
|             | (RD)               | Thickness ir mm                  |  | A VIII A CONTRACT OF THE PARTY OF |  | surface evenness is eptable limits. (Y/N)  |
|             |                    |                                  | 1 A 17   |                                   |  |  |
|             | 1                  |                                  |  |                                   |  |  |
|             |                    |                                  |  |                                   | );   |  |
|             | rovement:          |                                  |  |                                   |  | Whether side dray<br>are integrated<br>cross drains, (VA)                          |
|             |                    |                                  |  |                                   |  |  |
| 9. (        | Observation        | s - Quality o                    | f Shoulders:                                   |                                   |  |  |
| <b>9.</b> ( | RD observation     | f Thickness<br>of layer in<br>mm | Whether  | of<br>workr                       | ner quality<br>compaction<br>manship is<br>table.(Y/N) | Whether Shoulde being constructed simultaneously with sub-base arbase course (Y/N) |
| #           | RD observation     | f Thickness<br>of layer in<br>mm | Whether quality of the material is acceptable. | of<br>workr                       | compaction nanship is                                  | being constructed simultaneously with sub-base ar                                  |

## 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) | Whether quality of workmanship is acceptable. (Y/N) |
|---|---------------------------|------------|--|---|
|   | Enswards                  | 4          | 1.4.   |   |
|   |                           |            |  |   |

| Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement: |
|---|
| Comments than adequacy of the A. A. Wags and retaining water                                      |
|   |

## 11. Side Drains and Catch water Drains: Observations:

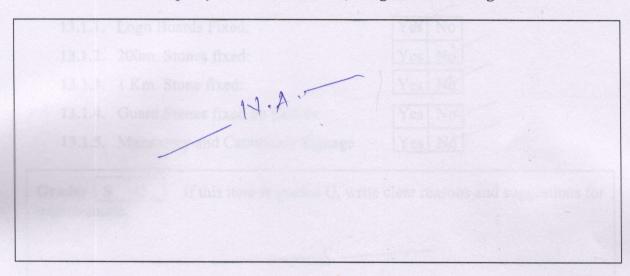
|   | # | Reference of RDs where side drain constructed. | RD at which observation made. | Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N) | Whether side drains are integrated to cross drains. (Y/N) |
|---|---|--|-------------------------------|--|---|
|   |   |  |                               |  |   |
| - |   |  | M.A.                          |  |   |
|   |   | tavement /                                     |                               | a gential against closs (ca  | who and suggestions                                       |
|   |   |  |                               |  |   |

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

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

| # | Reference of                         |                          | Thic            | kness            | General                                  | General                                |
|---|--------------------------------------|--------------------------|-----------------|------------------|--|--|
|   | RDs, CC/SR<br>Pavements<br>provided. | which observati on made. | Thickness in mm | Acceptable (Y/N) | quality of material is acceptable. (Y/N) | quality of workmanship acceptable(Y/N) |
|   |                                      |                          |                 |                  |  |  |
|   |                                      |                          | 1               |                  |  |  |
|   |                                      |                          | Hill            |                  |  |  |
|   |                                      |                          |                 |                  | ***************************************  |  |
|   |                                      |                          |                 |                  |  |  |

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



| Grade: S U improvement: | If this item is graded U, write clear reasons and suggestions for   |
|-------------------------|---|
| General Obs             | ith FIU at 2 and Contractor's Consultant's Engineers):  |
| objecterio              | servetions about destricted in project preparation (Give detailed as about deficiencies in general and items which have been less but are per site conditioner. |

#### 13. Road Furniture and Markings

| Observations - | Item No | 14 a: | Quality | Road | Furniture and | Markings  |
|----------------|---------|-------|---------|------|---------------|-----------|
|                |         |       | Quanty  | Ruau | runnure and   | Warkings: |

Main Informatory Board Fixed:

Yes No

Citizen Information Board Fixed:

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

the heart committees of me

### Observations - Quality Road Furniture and Markings:

- 13.1.1. Logo Boards Fixed:
- 13.1.2. 200m. Stones fixed:
- 13.1.3. 1 Km. Stone fixed:
- 13.1.4. Guard Stones fixed on Curves:
- 13.1.5. Mandatory and Cautionary Signage

Yes No Yes No

Yes No

Yes No

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

- 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:

| Bench Mark and Centre Line                       |                 |  |
|--|-----------------|--|
|  |                 |  |
|  |                 |  |
|  |                 |  |
|  | Stage-I         |  |
|  |                 |  |
|  |                 |  |
|  |                 |  |
|  |                 |  |
|  |                 |  |
| Maintenance of QC Registers                      | All Stages      |  |
|  |                 |  |
| H  |                 |  |
|  |                 |  |
|  |                 |  |
|  |                 |  |
|  | Velamin each km |  |
|  |                 |  |
| from SA - Earth Work                             |                 |  |
| Quality of Material for<br>Embankment/ Sub-grade |                 |  |
|  |                 |  |
| Side Slepes and Profile                          |                 |  |

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<br>Grades | Awarded<br>Grades |
|---|---|---|---------------------|-------------------|
| 1 | 2   | 3   | 4                   | 5                 |
|   | Item 1 – Setti  | ing Out and Working Dra                                   | wing                |                   |
| a | Bench Mark and Centre Line                            | All Stages  | S/SRI/U             | S                 |
| b | Availability of Working<br>Drawing                    | All Stages  | S/SRI/U             | S                 |
|   | s or hine is  | Item Grade  | S/SRI/U             | S                 |
|   | Item 2 – Si   | ite Clearance and Grubbin                                 | ng                  |                   |
| a | Site Clearance and Grubbing                           | Stage-I   | S/SRI/U             | 5                 |
| b | Re-use of Salvageable Material                        | Stage-I   | S/SRI/U             | -5                |
|   |   | 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             |                   |
| c | Maintenance of QC Registers                           | All Stages  | S/SRI/U             | S                 |
|   |   | Item Grade  | S/SRI/U             | S                 |
|   | It  | em 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                 |                   |
| d | Super-elevation & Extra<br>Widening at Curves         | 1 curve in each km  | S/U                 |                   |
|   | applied lies are courresses to the                    | Item Grade  | S/U                 | 5                 |
|   | Item 5A - Earth Work                                  | and Sub-grade in Embank                                   | ment/ Cutting       |                   |
| a | Quality of Material for<br>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/<br>In Stage- II or III, 2 per<br>km | S/U                 | S                 |
| c | Side Slopes and Profile                               | 2 per km in Stage III                                     | S/U                 | S                 |

|    | Item 5B - Earth Wo   |   | g Turnin |             |
|----|--|---|----------|-------------|
| a  | Stability and Workmanship of<br>Cut Slopes   | Stage I and II, at 2 critical locations with maximum height of cutting in each km       | S/U      |             |
| 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      |             |
| ì  | Longitudinal Gradient  | Stage II/III - 1 critical<br>and fairly representative<br>stretch of 200m in each<br>Km | S/U      |             |
|    | or see marin ougonig)  | Item Grade  | S/U      |             |
| ę. | DESCRIPTION OF THE PROPERTY OF | Item 6 - Sub-Base   | 540      |             |
|    | Quality of Material  | 2 serkm   | 1 KAT    |             |
| 1  | Grain Size   | In Stage- II or III, 1 per  | S/U      |             |
| )  | Plasticity   | km  | S/U      |             |
|    | Compaction   | In Stage- II or III, 1 per km   | S/U      |             |
| 1  | Total Thickness of Layer   | 2 per Km  | S/U      |             |
|    | shoulders  | Item Grade  | S/U      |             |
| h  | Item 7 - Base C  | ourse – Water Bound Ma  | cadam    |             |
|    | Grain Size of Course<br>Aggregate  | In Stege- II of III, 2 seets<br>per kru   | S/U      |             |
|    | Test for Liquid Limit and<br>Plasticity Index in case fine<br>aggregates are crushable type  | In Stage- II or III, 1 per km   | S/U      | s upto 6 in |
|    | Volumetric Analysis for assessment of compaction of WBM  | In Stage- II or III, 1 per km   | S/U      | 1 2 2 2     |
|    | 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      | C           |

|   | Item 8 - Bituminous Layer -  | - Premix Carpet (PMC)/ S               | urface Dressin | ng (SD)  |
|---|--|--|----------------|--|
| a | Level of cleanliness of WBM surface prior to application of bituminous layer   | 1 per Km                               | S/U            |  |
| b | Quality of Prime Coat/ Tack<br>Coat with respect to quality of<br>material and workmanship   | 1 observation on the day of inspection | S/U            |  |
| c | Gradation Test for Course<br>Aggregate (if the work in the<br>item is ongoing)/visual<br>observation in case of<br>completed item of work  | 1 test on the day of inspection        | S/U            |  |
| 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 -          | -5   |
| g | Surface Evenness in case of completed BT work  | 2 per Km                               | S/U            | S-   |
|   | Comparing the Company of the Company | Item Grade                             | S/U            | 3 —  |
|   | Mass laformatory Beam. I   | tem 9 – Shoulders                      | St             |  |
| a | Quality of material for shoulders  | In Stage- II or III, 1 test<br>per Km  | S/SRI/U        |  |
| ) | Degree of compaction   | In Stage- II or III, 1 test<br>per Km  | S/SRI/U        |  |
| : | Thickness of layer   | In Stage- II or III, 2 tests per km    | S/SRI/U        |  |
|   | m Grade  | Stage-Land III                         | S/SRI/U        | La de la companya de |
|   | Item 10 - Cross Drainage Works   | - Causeways of all spans span.         | and Culverts   | upto 6 m.  |
|   | Quality of Material – Concrete,  | ADDING OF BUILD                        | 190            | 1  |
| ı | Stone/ brick masonry, Hume pipes including size etc.   | All Stages                             | S/SRI/U -      | -5-  |
| ) | Quality of Workmanship such<br>as positioning of pipes, wing<br>walls, cushion over H Pipes<br>etc.  | All Stages                             | S/SRI/U        | S -  |
|   |  |  |                |  |

|                | Item 11 - Side  | Drain and Catch Water D                                    | rain       |       |
|----------------|---|--|------------|-------|
| a              | General quality of Side Drains/<br>Catch Water Drains and their<br>integration with CDs.              | All Stages   | S/SRI/U    | anded |
|                | 0.00  | Item Grade   | S/SRI/U    | F 10- |
| 2 133<br>A 213 | Item 12 - CC/ Semi Rigid  | Pavements and Associate                                    | d Pukka Dr | ains  |
| a              | Quality of Material – Concrete,<br>Stone/ Concrete Block<br>Pavement etc.                             | In Stage- II or III, 1 per<br>100 m. Length of<br>Pavement | S/U        |       |
| b              | Strength of CC in Concrete Pavement/ Concrete Block Pavement  | In Stage- II or III,1 per<br>100 m. Length of<br>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        | -     |
| d              | Thickness of Layer  | In Stage- II or III, 1 per<br>100 m. Length of<br>Pavement | S/U        |       |
| em             | No 17 Side Drain and t  | Item Grade   | S/U        |       |
|                | Item 13 - R   | oad Furniture and Markin                                   | ngs        | 4,4-4 |
| 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        | -s -  |
| c              | Whether the information in boards is given in local language.   | Stage-I and III  | S/U        | 13-   |
|                |   | 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<br>Grade |
|-------------|--|------------------|
| Item No 1   | tem No 1 Setting Out and Working Drawing                                   |                  |
| Item No 2   | Site Clearance and Grubbing  | S                |
| Item No 3   | Quality Arrangements   | 2                |
| Item No 4   | Geometrics   | S                |
| Item No 5 A | Earth Work and Sub-grade in Embankment/ Cutting                            | NA-              |
| Item No 5 B | Earth Work in Cutting in Hilly/ Rolling Terrain                            | -NA-             |
| Item No 6   | Sub-Base   | -NA -            |
| Item No 7   | Base Course – Water Bound Macadam  | S                |
| Item No 8   | Bituminous Layer – Premix Carpet (PMC)/<br>Surface Dressing (SD)           | 5                |
| Item No 9   | Shoulders  | S                |
| Item No 10  | Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span. | _NA -            |
| Item No 11  | Side Drain and Catch Water Drain   | NA_              |
| Item No 12  | CC/ Semi Rigid Pavements and Associated Pukka Drains                       | - NA-            |
| Item No 13  | Road Furniture and Markings  | 5                |
|             | Overall Grading  | 5                |

| Signatur | e:   |
|----------|--|
| Name:    | 29/12 2018<br>Samchandra aswar<br>7:1.2.2018 |
| Date:2.  | 7:.1.2., 2018                                |
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