

**GOVERNMENT OF INDIA
MINISTRY OF DEVELOPMENT OF NORTH EASTERN REGION
NORTH-EASTERN COUNCIL SECRETARIAT
NONGRIM HILLS, SHILLONG – 793 003**

No: NEC/T/11th Plan/2007-08

Dated, October 09, 2007

To

The Chief Engineer,
Public Works Department
Government of Arunachal Pradesh, Itanagar; Assam, Dispur;
Manipur, Imphal; Meghalaya, Shillong; Mizoram, Aizawl;
Sikkim, Gangtok; Nagaland Kohima; Tripura Agartala,

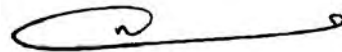
Sir,

1. Based on the projection made by the State Governments a few road have been identified/short listed by NEC as interstate roads for taking up during the 11th Plan. Since NEC has large number of spill over liabilities from 10th Plan it has been decided to prepared DPRs of those roads which have been short listed. A separate communication in this regard has been sent to State PWDs / Planning Departments.

2. It has been in the past the DPRs are being submitted by the State PWDs on the un-standard format leading to delays in examination of DPRs. In order to save time on scrutiny of the DPRs, a standard format has been adopted by a number of organizations which is enclosed as Appendix-A for adopting the same for all future DPRs to be prepared for NEC projects.

Enclo: Standard Format
for DPR

Yours faithfully,



(M S Sodhi)
Adviser (T&C)

FORMAT FOR PREPARATION OF DETAILED PROJECT REPORT FOR IMPROVEMENT /UP-GRADATION/ NEW CONSTRUCTION OF ANY ROAD

1. **PRELIMINARY**

- 1.1. Name of Work
- 1.2. Authority and Plan Provision
- 1.3. History, Terrain, Climate etc.
- 1.4. Horizontal and Vertical Profiles of Existing facilities and other Deficiencies etc.

1.5 **BROAD SCOPE OF WORKS**

- (a) Shifting of utilities : Rs. Lakh
 - 1. Electric pole : Nos.
 - 2. Electric poles : Nos.

(Location statement be given separately for above utilities)
- (b) Formation Works : Rs. Lakh
 - 1. Earthwork in Embankment : Cum

(Location statement giving X-sections, L-sections and profile be given separately)
- (c) Surface/ Pavement Works : Rs Lakh

The item-wise details are as under:-

 - (i) GSB 150 mm thick 1st layer : Sqm
 - (ii) GSB 150 mm thick 2nd layer : Sqm
 - (iii) WMM 225 mm : Sqm
 - (iv) WMM 225 mm : Sqm
 - (v) BM 50 mm thick : Sqm

(The location statement for pavement / surfacing works be given separately)
- (d) Cross Drainage Works / Pavement Works : Rs. Lakh
 - 1. Contr of 6.00 Mtre span culvert : No.
 - 2. Extn of 6.00 Mtre span culvert : Nos.
 - 3. Extn of 3.00 Mtre span culvert : Nos.
 - 4. Extn of 1.50 Mtre span culvert : No.
 - 5. RCC R/Wall 4.00 m Height : Mtre.
 - 6. Fixing 5th Km Stone : Nos.
 - 7. Fixing Km stone : Nos.
 - 8. Fixing Sub Km Stone : Nos.
 - 9. Fixing of Guard Stone : Nos.
 - 10. Providing Warning Sign : Nos.
 - 11. Providing Metal crash Barriers : Mtre.
 - 12. Centre Line Marking : Sqm.
 - 13. Provision of Latrine and urinals : Nos.
 - 14. Provision of service Hume Pipe : Nos.
 - 15. Provision of surface Drain : Mtr.

(Location statement for each of the structure be given separately)

(e) **Construction of Major Bridges:** : Rs. Lakh

1. Constr of RCC Bridge at Km..... : Mtr

2. Constr of PSC Bridge at Km..... : Mtr

3. Constr of MCBC bridge at Km..... : Mtr

(f) **Construction of Minor Bridges:** : Rs. Lakh

1. Constr of minor bridge at Km..... : Mtr

2. LAND ACQUISITION AND UTILITIES (With location Statement)

2.1 **Need for additional width and action to ensure its availability if any**

2.2 **Acquisition of Structures etc. required**

2.3 **Re-location of Utility Services and Action Taken in the matter to ensure the same prior to taking up the Project wherever required.**

3. TRAFFIC

3.1 Traffic studies undertaken -
Carried out at km

3.2 Latest traffic data for the section/sector - CVD

3.3 Traffic projection -

3.4 Design traffic (in item of No. of vehicle of various types PCUs and cumulative million standard axle repetitions over the design period) - MSA

4. ROAD FEATURES

4.1 **Improvement of Curves, Gradient etc.**

| Sl. No. | Location | | Details of curves | Remarks |
|---------|----------|----|-------------------|---------|
| | From | To | | |

4.2 **Improvement of Sight Distance**

4.3 **Widening of Pavement**

4.4 **Need for Raising**

4.5 **Need for Shoulders (Paved), Parallel Service Roads etc.**

4.6 **ROB, Major Bridges involved and Action for preparation Proposal**

| Sl. No. | Loc in Km | Name of Bridge | Existing | | Proposal | |
|---------|-----------|----------------|-------------|------|-------------|------|
| | | | Span in Mtr | Type | Span in Mtr | Type |

MINOR BRIDGES

| Sl. No. | Loc (Km) | Name of Bridge | Existing span in Mtr | Carriageway width in Mtr | Remarks |
|---------|----------|----------------|----------------------|--------------------------|---------|
|---------|----------|----------------|----------------------|--------------------------|---------|

MAJOR BRIDGES

| Sl. No. | Loc (Km) | Name of Bridge | Existing span in Mtr | Carriageway width in Mtre | Remarks |
|---------|----------|----------------|----------------------|---------------------------|---------|
|---------|----------|----------------|----------------------|---------------------------|---------|

- 4.7 **Area Needing Special Treatment**
- 4.8 **Environment Features**
- 4.9 **HFL and Water Table Along the Road**
5. **SOIL INVESTIGATION**
- 5.1 **Soil characteristic of sub grade soil**
- 5.2 **General Soil Test Data**
6. **PAVEMENT DESIGN, SPECIFICATIONS AND SHOULDER TREATMENT**
- 6.1 **Thickness composition, width of existing pavement and its condition km wise**
- 6.2 **Design CBR and Benkelman Beam Deflection Test Technique**
- 6.3 **Pavement design and composition of Pavement for widening and/or strengthening**
- 6.4 **Profile Corrective Course**
- 6.5 **Shoulder Treatment**
- 6.6 **Specification for pavement course**
- 6.6.1 **GSBC 15 cm thick consolidated**
- 6.6.2 **WMM 225 mm thick**
- 6.6.3 **WBM 225 mm thick**
- 6.6.4 **BM 50 mm thick**
- 6.6.5 **SDBC 25 mm thick**
- 6.7 **Typical Cross Section**
- 6.8 **Existing Shoulder and proposed treatment**
7. **DRAINAGE**
- 7.1 **Condition of Existing Drains, Water Table, Seepage Flows etc.**
- 7.2 **Need for New Drains, Surface Drains, Catch water Drains, Longitudinal side drains, blanket course etc.**
- 7.3 **Need for sub surface drains**
- 7.4 **Internal Pavement Layer Drainage Condition and requirement**
8. **CROSS DRAINAGE STRUCTURES**
- 8.1 **Condition of Existing Culverts**
- 8.2 **Assessment of Water Way and Additional needs if any**
- 8.3 **Culvert to be constructed and their type**

8.4 Culvert to be widened

| Sl. No. | Loc in Km | Existing Details | | | Proposals |
|---------|-----------|------------------|---------------|------|-----------|
| | | Span in Mtr | Length in Mtr | Type | |

9. ROAD INTERSECTION**9.1 Improvement to existing Intersection category of other Roads involved****9.2 New Intersection where required****9.3 Interchange if any with justification****10. RAILWAY CROSSINGS****10.1 Improvement /Upgradation of existing crossing their location with justification, Number of Railway lined (Bg/Mg) crossed at each location****10.2 Widening if required****11. MATERIALS, LABOUR AND EQUIPMENTS****11.1 Prospecting of borrow area of soil with soil properties from Embankment as well as sub-grade and lead involved****11.2 Quarries for Aggregates, its Characteristics and lead involved****11.3 Source of materials, water and arrangement for Transportation****11.4 Labour availability amenities****11.5 Important equipment proposed for the work with their capacities****12. MISCELLANEOUS****12.1 Protective works such as pitching/retaining walls etc.****12.2 Rest House, Temporary quarries, wayside amenities, Truck park etc.****12.3 Roadside Plantation, Turfing, Landscaping etc.****12.4 Guard Rails, Informatory Sign Boards, Traffic Control Devices, if any****12.5 Diversion, Land Road and Traffic arrangement during work on existing road****12.6 Site amenities****12.7 Toll Plaza****13. ROUGH COST OF WORK****13.1 Rough cost of work Rs. lakh****14. JUSTIFICATION FOR SPLITTING OF WORK, IF PROPOSED****15. PRE-QUALIFICATION OF CONTRACTORS REQUIREMENT STATUS**

16. **STATEMENT/CHARTS** - Please ref index enclosed
- Appendix 'A'** - Reference
- Appendix 'B'** - DPR Part I – This would
Give summary of cost
Estimate
- Appendix 'C'** - DPR Part II – This would
Include the detail item wise
Cost of work based on
Standard Schedule of
Rates
- Appendix 'D'** - Pro rata rate Analysis
- Appendix 'E'** - Shifting of utilities & details
of ROW
- Appendix 'F'** - Qty of Earthwork
- Appendix 'G'** - Design Pavement
- Appendix 'H'** - Qty of Surfacing
- Appendix 'J'** - Culverts
- Appendix 'K'** - Hydraulic data of culverts
- Appendix 'L'** - Service H/pipe culvert
- Appendix 'M'** - Retaining walls
- Appendix 'N'** - Road Furniture
- Appendix 'O'** - Road side amenities
- Appendix 'P'** - Surface drain
- Appendix 'Q'** - Permanent works
Summary
- Appendix 'R'** - Permanent bridges
- Appendix 'S'** - Misc
17. **DRAWINGS**
Drawing folder containing plan and longitudinal sections of road as per IRC SP 19-2001 to be enclosed separately.
18. **PROGRAMS OF CONSTRUCTION**
- Financial year 2006-07**
- | | | |
|----------------------|---|------------|
| Formation | - | Km |
| Surfacing | - | Km |
| Permanent Works | - | lakh |
| Sifting of utilities | - | % |
| Bridges | - | % |
- Financial year 2007-08**
- | | | |
|-----------------|---|------------|
| Formation | - | Km |
| Surfacing | - | Km |
| Permanent Works | - | lakh |
| Bridges | - | % |

Financial year 2008-09

| | | |
|-----------------|---|----------|
| Surfacing | - | Km |
| Permanent works | - | % |
| Bridges | - | % |

19. **SPECIAL STATUS, IF ANY**

20. **GENERAL**

20.1 **Status of Land Plans ownership**

20.2 **Use of Departmental Machinery, where stipulated with brief particulars**

20.3 **Roughness measurements**

21. **Other Information**

Note:

1. **All the information in the DPR must be supported with detail justification and location statement.**
2. **The format given above is only an indicative and not an exhaustive one. The executive may provide additional information to make the DPR more objective and explanatory.**