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GENERAL GUIDELINES FOR PREPARATION OF WORLD BANK PROJECTS—PROJECT REPORT AND FORECAST ESTIMATES

CONTENTS

1. Report on the Project

- Name of road, terminal points
- Length
- Division into sections, based on terrain and traffic volume. If there is a variation in traffic volume along the road, the same should be split into smaller sections such that the traffic volume in each is generally uniform.
- Type of work
- Terrain
- Present condition of highway
- Present traffic
- Traffic in the past
- Economic indicators such as GNP, agricultural output, industrial output, population, motor vehicle population in the State
- Need for the work
- Standards for the work
- Indicate whether alternative bids are permitted for any component
- Any particular difficulties
- Status of Land Acquisition
- Is it proposed to collect toll ?
- Organisation structure of P.W.D.
- Supervision arrangement

2. Design

- Pavement design based on CBR/Deflection study at each km.
- Preliminary design of high embankment
- Design of longitudinal section
- Preliminary design of major bridges including depth and type of foundations
- **Preliminary** design of minor bridge, canal crossings, road overbridges and typical village crossings
- Preliminary design of interchanges
- **Preliminary** design of grade-separators

3. Drawing

- Locality map
- Typical cross-sections, one at each representative point in a km., and at high embankments, showing pavement
- Longitudinal section of road
- General arrangement drawing of major bridges, showing dimensioned components
- General arrangement drawing for minor bridges, canal crossings, road overbridges and typical village crossings
- Preliminary drawings of typical interchanges
- Preliminary drawings of grade separators
- **Preliminary drawings of Toll plaza and important junctions**

4. Estimates

- For each section separately
- Quantities of earthwork, pavement components
- Borrow area and quarry charts
- Slab culverts in terms of running metre

- Pipe culverts in terms of members for each category of diam
- Minor bridges and other crossings enumerated in item No. 2 relating to Design with location, in terms of running metre (based on typical estimates)
- Major bridges, with location, with detailed quantities of work
- Typical estimate of an interchange, and the location and number of such
- Typical estimate of a grade separator, and the location and number of such
- Analysis of rates
- Basis for running meter cost of bridges and culverts
- Estimate based on above details. The cost worked out should not vary beyond 10% of final detailed estimated cost
- Centages as under :

10% Physical contingencies Total

1% Quality Control Total

W.C. Establishment Total

9% Agency Charges Total

Total (A)

Phasing and escalation

| <i>Year</i> <i>1</i> | <i>Phasing</i> <i>2</i> | <i>Escalation</i> <i>3</i> | <i>Total</i> <i>Cols 2+3</i> |
|-------------------------|----------------------------|-------------------------------|---------------------------------|
| 1984-85 | 5% of A | 8% of Col. 2 | |
| 1985-86 | 15% of A | 7% of Col. 2 | |
| 1986-87 | 25% of A | 7% of Col. 2 | |
| 1987-88 | 30% of A | 7% of Col. 2 | |
| 1988-89 | 25% of A | 6% of Col. 2 | |
