

## **PREAMBLE**

### **Basic Approach and General Conditions Observed for Preparation of Rate Analysis**

The basic approach for the preparation of Rate Analysis is adopted as per guidelines of MORT&H as indicated under:

#### **1.0 Description of Items**

The description of items is given briefly and linked with the relevant clause of the MORT&H Specifications for Road and Bridge Works, which may be referred for detailed description, provisions and interpretation, wherever applicable.

#### **2.0 Basic Inputs**

- i) Basic inputs i.e. the rates for material and labour are obtained from Schedule of Rates (SR) of Nanded PWD. (Attached separately), here after referred as S.R.
- ii) The rates for cement, steel and Bitumen have been collected from Nanded Market
- iii) Wherever Rates for the item are available in the SR the same have been updated by adding Corporation charges of 5% as per note in SR.
- iv) Corporation charges are not considered for item of rates obtained from market and rates framed up as per MORT&H procedure.

#### **3.0 Contractor Profit**

Contractor's profit @ 10% has been considered in the SR which includes overheads also since in the Estimate comparatively more numbers of items have been adopted. The similar provision has been retained while working out rates as per format of MORT&H.

#### **4.0 Materials**

- 4.1 The rates for basic materials include Cost of Quarrying, Royalty, Loading and Unloading within a lead of 5 kms, as per SR in respect of natural materials. In respect of crushed materials, the lead charges and royalty charges have been added as mentioned in the succeeding sections.
- 4.2 The specifications of materials shall be governed by section 1000 of MORT&H Specifications for Road and Bridge Works.
- 4.3 Cement to be used in structural items shall be 43 grade OPC
- 4.4 Use of fly ash 15% shall be made in all non structural concrete items.

## **5.0 Labour**

The Labour wages have been adopted as per SR in respect of all categories.

## **6.0 Lead charges**

Lead charges for Aggregate and Sand 5 to 8 km and 10 to 12 km from crushers and source respectively. At site rates of Aggregate / Sand as obtained by deducting built in lead of 5 km from crusher and source leads.

## **7.0 Items of Work**

### **General**

- 7.1 Sundries to cater for unforeseen contingency and miscellaneous items have been added in the overhead charges.
- 7.2 Arrangement for traffic during construction shall be as per Clause 112 of MORT&H Specifications for Road and Bridge Works.
- 7.3 Wherever unit rate and quantity multiplication yields fraction above 0.5 the next rounded figure is adopted. The item not carrying any quantity and unit rate have been retained in the Cost Estimate to maintain the format without any meaning otherwise.

## **8.0 Royalty Charges**

For Quarry material such as Sand, Metal and Murrum Royalty Charges of 17.67 per Cubic meter has been considered in the rate analysis, as per clause 16 of SR Nanded