

Performance and Design of Cold Mix Asphalt

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Abstract— Hot mix technology has seen significant advances through many research programs. Cold mix technology is lagging behind in both research and application fields which is quite observable in a developing country like India. In the absence of uniformity in the laboratory cold mix design procedures followed by different researchers / agencies / organization, it is difficult to form reliable correlations and to have a comparative study between experimental results reported by them. The mix parameters selected for the present work are (i) Method of compaction, (ii) level of compaction, (iii) additives and (iv) aggregate gradation. The first three parameters are selected for their importance as presented in a number of previous research works. It is observed that Bailey method for gradation selection is the only method for HMA/SMA mixture which analyses the aggregate gradations both considering the blend by volume as well as blend by weight. In this study Bailey's concept has been considered for cold mix design. All the mix parameters have been selected to assess the effect on Marshall Properties of CMA mixture. Initially a suitable experimental methodology has been prepared and then the effects of selected mix parameters on performance of compacted mix are studied. Finally a comparative study for above results has been done on basis of the Marshall Stability and air void content of the cold mix. Considering all the selected mix parameters it is observed that only in case of gyratory compaction the adequate air void range (3 to 5 %) in cold mixes can be achieved. Besides, though each and every parameter has contributed to increase the Marshall Stability of cold mixes, cement and developed gradations have shown more significant increase in stability of cold mixes.

Key words: Cold Mix Method, Thanaya, MORTH, Binder, Marshall Stability, Gyratory

I. INTRODUCTION

Several ambitious road construction plans and activities primarily involve bituminous pavements with hot mix technology. Hot mix technology which is a very conventional method for road construction, has structurally satisfied the performance requirements over many years. The procedures generally followed by the hot mix technology are : heating of binder and aggregate, mixing, tack coating, laying of mix followed by the compaction process everything done at high temperature in a range of 120°C to 165°C temperature. Though performance wise this has been the most suitable for pavement structures, but their high use have several drawbacks like environmental degradation, high energy consumption, increase in carbon footprint, low output for mix production, low laying work in rains and cold weather, limited construction period in a year, oxidative hardening of binder, health and safety hazard to labour (Pundhir et al., 2012). Besides this, in some North and North Eastern parts of India like Jammu and Kashmir, Assam, Manipur, Meghalaya, Arunachal Pradesh and others,

rural road projects involving several Lakhs and Crores of rupees are beyond time. Due to topographical and weather constraints, it is difficult to work with hot mix technology in such hilly regions, heavy rainfall and forest zones. So, it is desirable to find out a suitable alternative for hot mix technology. In the emulsion based cold mix technology, the addition of pre-wetting water to the aggregate, thereafter addition of emulsion to it, production of the mix, laying and compaction, all processes are done at the room temperature (23°C to 25°C). In addition to this, field trials have proved that cold mix can be easily produced by using hot mix plant and laid in using similar techniques. It is also a labour friendly technology.

II. METHODOLOGY

A. Materials Used

1) Aggregates:

For preparation of cold mixes, two types of aggregate gradations such as dense gradation (BC) and gap gradation (SMA) were taken as per MORTH (2001) and IRC:SP:79 (2008) specifications.

2) Coarse Aggregates:

Raw materials consisted of stone chips were collected from a local source. Aggregates up to 4.75 mm are sieve size were used as coarse aggregate. Its specific gravity was found to be 2.75 as per IS: 2386 (Part-III) procedure.

3) Fine Aggregates:

Raw materials consisted of stone crusher dusts were collected from a local crusher. Aggregates with fractions passing 4.75 mm and retained on 0.075 mm IS sieve was used as fine aggregates. Its specific gravity was found to be 2.62 as per IS: 2386 (Part-III) procedures.

4) Filler:

Raw materials for stone crusher dusts were collected from a local crusher while fly ash, lime and portland slag cement (Grade 43) were collected from local market. Materials are passing 0.075 mm IS sieve was used as filler material. Specific gravity for stone crusher dusts, fly ash, lime and cement were found to be 2.7, 2.2, 2.3 and 3.07 respectively.

5) Binder:

Cationic medium setting (CMS) Bitumen emulsion collected from the reliable source was used in this investigation to prepare the samples. Its residual asphalt content was found to be 65.4%.

B. Laboratory Tests

1) Marshall Test:

The specimen is loaded diametrically at a deformation rate of 50 mm per minute. There are two major features of the Marshall method of mix design, (i) density-voids analysis and (ii) stability-flow tests.

2) Gyratory compaction:

The parameters used in the present study are the 100 mm diameter mould, 1.25° gyratory angle 30 rpm gyration rate, 4.711kN vertical load on 100mm diameter specimen.

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**Kun Zhang,Rongqiao Xu,Shih-Huang
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