General Notes

1) (a) "Specifications" refer to the "Specifications for Rural Roads" published by the Indian road Congress January, 2014 on behalf of the Govt. of India Ministry of Rural Development.

   (b) "Clause" refers to clauses of the specifications referred to in note (a) above.

   (c) "Engineer-in-charge" would refer to the General Manager of the Project Implementation Unit.

   (d) "Table" refer to the table of the aforesaid specifications.

2) The initial setting out work of road shall be carried out separately as per item no 1.6 of SSR, however the rates of all items include element of setting out and carrying out the work in narrow or part width, of road, where directed unless specified.

3) The measurement of excavation above water level and below water level shall be recorded separately. The rates for dewatering, shoring and shuttering shall be paid extra for measured quantity of excavation below water level.

4) In the absence of any stipulation to the contrary, unit rates for different items of work are for completing the works to the specifications i/c full compensation for all operations detailed in the relevant sections of the specifications under "Rates". The rates are to be considered as the full rates for the finished work covering all labour, material, royalties, lease, rent, wastage, temporary work, plant, equipment, overhead charges and profit, unless otherwise specified.

5) Mode of measurements shall be as per provisions contained in the relevant clauses of the specifications unless specified otherwise. Record of levels taken before construction must be sent to the General Manager PIU duly signed by the Contractor or his representative, consultant and representative of PIU before commencement of the construction.

6) The Rates include the element of hire and running charges of all types of plant, machinery and equipment required to complete the work unless specified otherwise. The rates are including of Royalty and labour cess but excluding of all other type of Taxes.

7) The rates include making arrangement of traffic as per clause No. 111 and its sub clauses.

8) The rates also include the element of testing of samples of various materials brought by the contractor for use on the work as well as other tests for

items of work as stipulated in the specifications. Frequency of such tests to be carried out must not be less than the prescribed frequencies. Copies from Registers containing records of tests shall have to be presented along with running account bills. Actual consumption of materials like bitumen, cement and steel be worked out in each running bill before making payment. Register (Original) shall have to be submitted along with the final bill. Tests of the material shall have to be conducted by the contractor's engineer under the supervision of the consultant & authorised representatives of PIU.

9) ISI marked reinforced cement concrete hume pipes must be used in construction of roads. In cases where ISI marked hume pipes are not available, GM may allow use of hume pipes conforming to IS specifications duly tested by DGS & D or MP-LUN The testing certificate of DGS & D or MP-LUN will be kept on record before making payment against such items. NP-4 pipes may be used after prior written permission of CGM.

Destructive testing of the hume pipes shall be ensured, as per relevant IS code of practice and test certificate should be kept on records.

10) Whenever existing road is to be widened, sides shall be cut in steps of 15 cm thickness and rate for cutting of earth and its filling with compaction to required density shall be payable as per items of excavation and compaction (Item 3.4 and 3.2 respectively).

11) Metal to be used for all bituminous courses and cement concrete shall be crushed in mechanical crushers. Metal for other items shall be used as per instructions of MPRRDA.

12) The works of shoulders must precede the work of sub-base and base courses and succeed the bituminous courses and cement concrete pavement.

13) Wherever an existing boulder soling or WBM pavement is required to be excavated, it shall be presumed that the following quantities of rubble and coarse aggregates would be available for re-use and issued to the contractor at the rate indicated against each: -

a) Rubble :- 1 Cubic meter of rubble for every cubic meter of excavated boulder soling @ Rs. 115 per cubic meter of soling.

b) Coarse Aggregate :- 1.10 Cubic meter for every cubic meter of excavated WBM @ Rs. 120 per cubic meter of excavated WBM. (Excavated WBM should be screened to segregate metal from moorum/screening before re-use)

14) Bitumen & modified bitumen shall be obtained from Govt. refinery. The Bitumen emulsion shall be obtained from Govt. refinery or from reputed Manufacturer having ISI marks.

15) In case of any contradiction in the provisions of the specifications and this schedule of rates, the provision of the later would take precedence.

16) Dismantling of utilities will be done under the supervision of concerned departments with prior information to the users.

17) For narrow and restricted areas, plate compactors shall be used for compaction to achieve the desired density.

18) The actual quantities of materials shall be as per job mix formula for bituminous works.

19) Latest IS.& IRC. Codes shall be followed.

20) The girth of trees shall be measured at 1.00 Meter (One Meter) above ground level.

21) All wood obtained from the cutting of trees having girth above 300mm shall be property of the government and shall be disposed off as per rule and direction of Engineer-in-Charge.

22) The rates of loading and unloading of various items include stacking also.

23) Where only grass wild growth is met with, rate of item No.2.1, i.e., clearing grass and removal of rubbish should be applied.

24) (i) In case excavated rock is found suitable for use in works, it will be available to the contractor for its use on the work free of cost.

(ii) In case, materials obtained after dismantling of stone masonry / stone pitching is found suitable for construction in road works, it will be made available to the contractor at free of cost.

25) **Speed breaker**:- One single item pertaining to speed breaker / breakers on the road has been included in the SSR along with sub items required to be executed as per enclosed drawing, payment for this has to be made separately according to relevant SSR items. For all the executed road work items i.e. earthwork to carriageway top no deduction shall be made for speed breaker / breaker length, as the provision for such deduction has already been made in rate analysis.

26) Spreading of bituminous materials shall be done by mechanical means except in areas where a mechanical paver cannot have access.

27) Use of cement concrete pavement for rural roads is likely to be limited to small stretches. Accordingly, the rate analysis is based on concrete mixer of suitable capacity with weigh batcher, fixed side forms and screed, plate and needle vibrators.

28) The size and location of traffic signs shall be as per IRC:67.

29) All concrete should be mixed in mechanical mixers.

30) The cost of formwork is included in the rate of concrete.

31) The items of foundation include works below bed level or ground level as the case may be. The items of sub structure include work between top of the foundation and bottom of the soffit and items of super structure include soffit and above. There will be no super structure items for pipe culverts.

32) There are 3 different type of rates in chapter 3 for earthwork of different nature. Item no. 3.3 A is applicable for sub-grade where select soil of more than 7 CBR is used and it is not available within 250 m from place of use. The rates of item no. 3.3 B will be applicable in places were select soil of CBR>7 is available within 250 m. The rates of item no. 3.4 and item no. 3.2 will be applicable for excavation of local soil and its used in embankment. In case of expansive clay (see clause 303.3.2) the rate of approved soil for embankment will be payable as per item no. 3.3 B.

33) The earth work with modified soil having CBR of 10 and above shall only be carried out as per specific and exceptional requirement of earth work with modified soil as per pavement design catalogues of IRC SP 72-2015 and this item is to be adopted only after obtaining prior written permission of HO/CGM. In case where material of 10 CBR and above and of other required properties are available within a lead of 250 m, then the rate of item no. 3.4 and item no. 3.2 shall be applicable.

34) **SUB-STRUCTURE**- The part of the bridge structure below the a) Soffit level of the deck slab/beams and or b) Springing level for arch spans, but above the ground level or L.W.L. which ever is higher, shall be taken as sub structure of the bridge part. Complete RCC box section will also be considered as sub-structure.

35) **Cement concrete works-** The rates for all types of cement concrete work are provided with use of PPC cement for all types of structures and CC pavement. In case of absolutely necessity, the use of OPC of 43 grade and above, shall be executed only under written prior approval of CGM an extra payment @ Rs. 400/ MT will be admissible on the actual theoretical consumption (as per mix design) of the cement.

36) **RCC M-30 wearing coat** – The rates of wearing coat is inclusive of reinforcement provided, construction joint between panels and the form work at the panels.

75mm thick cement concrete wearing coat in M-30 grade concrete with maximum water cement ratio as 0.40. The reinforcement shall consist of 8 mm dia TMT / HYSD bars @ 200 mm c/c reducing to 100 mm c/c in both the directions over a strip of 300 mm near the expansion joint. Wearing coat shall be discontinued at expansion joint locations. Joint fillers shall extend upto the top of wearing coat.

37) RCC M-25 Approach Slab – The rates of approach slab is inclusive of reinforcement provided. The reinforcement shall consist of 12 mm dia HYSD bars @ 150 mm c/c in both direction at top and bottom.

38) The cement concrete logo board is to be constructed in situ at site with M-15 grade concrete with 20mm graded metal and reinforcement as per the details indicated in relevant drawing appended with the SSR.

39) **Steel Reinforcement** - Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in works, excluding overlaps. From the length so measured, the weight of reinforcement shall be calculated in tonnes on the basis of IS:1732. wastage, over laps, coupling and welded joints, if any, spacer bars, chairs, stays, hangers, concrete/PVC cover blocks and annealed steel wire or other material for binding and satisfactory placing of reinforcement cage shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.

40) For item no 2.2, 2.5, 2.8, & 2.9 and in any other items of this schedule if any serviceable materials obtained in execution of work, the proper records may be maintained and disposed off as per Government rules. If materials are not useful or serviceable, General Manager will record a certificate in M.B. to this effect.

41) 15 % amount of payment of bituminous items of 20mm thick OGPC and seal coat in renewal in post 5 year maintenance contracts shall be released after maintenance of hard shoulder as per item no. 15.19.

42) *For item 6.1 of Cement Concrete payment, the rates include cutting of contraction joint by joint cutting machine for initial and final cuts. It should be ensued that the joints are cut by cutting machine in 24 house of its laying.*

43) *WMM should be mixed in Wet mix plant (Pug Mill) and laid by appropriate paver/motor-grader. Wet mix plant (Pug Mill) should be verified by concern AM and recorded in M.B.. Traffic should not be allowed till sealing the WMM surface.*

44) *SSR chapter no. 15 maintenance of roads, item no. 15.7 & 15.8 is for working out the per km./per year rates of routine maintenance which is non measurable item. These items should not be included in the estimate/BOQ of measurable items of works such as IR etc.*