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**MAHANADI COALFIELDS LIMITED,
JAGRITI VIHAR, BURLA, SAMBALPUR(ORISSA)**

Ref. No. MCL/SAMB/Civil/07-08/ ^{08-09/220}

Date. 06/05/2008

Circular regarding "Standard Analysed rate for Spraying of water on Coal Transportation roads for dust suppression purpose."

For the item of Water Spraying on Coal Transportation roads by mobile tanker for dust suppression purpose, there is no item in our Schedule of Rates and the item is being operated on Analysed Rate basis in all the Areas which are at variance in terms of unit, rate and the mode of analysis of the item. To bring about uniformity in the unit and rate of this item, standard analysed rates along with description of the items are given below for adoption in whole of MCL with immediate effect for the purpose of estimating and award. Item no. 1 has the provision of loading of water by the contractor whereas item no. 2 has the provision of loading of water by departmental arrangement:

| SLNo | Description of item | Qty | Unit | Rate(Rs) | Amount |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----------|--------|
| 1. | Spraying of water on Coal Transportation Road for suppression of dust by mobile tanker having spraying arrangement, loading of water into tankers by pump or any other means by contractor's own arrangement, from any source with all lead and lift including the hire charges of water tanker, pump, cost of diesel, mobile, repair and maintenance and wages of driver and helper etc. All complete. | | Ltr | 0.0316 | |
| 2. | Spraying of water on Coal Transportation Road for suppression of dust by mobile tanker having spraying arrangement, loading of water into tankers by departmental arrangement with all lead and lift including the hire charges of water tanker, cost of diesel, mobile, repair and maintenance and wages of driver and helper etc. All complete. | | Ltr | 0.0273 | |

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The following conditions shall apply to the above rate:

1. The above rate is based on the basic rate of diesel @ Rs. 34.65/Ltr. With every percentage increase in the diesel price, the rate of item 1 may be increased by 0.2074% (Zero point two, zero, seven, four percent) for updation of the rate and in case of item 2, with every percentage increase in the diesel price, rate may be increased by 0.2182% (Zero point two, one, eight, two percent).
2. Frequency of wetting of the road and quantity of water required for spraying every day shall be decided by the Area depending upon the requirement.

Note: For all water spraying works the "Special Terms & Conditions" as per the specimen copy enclosed shall be annexed with the BOQ.

B. M. M. S.
3/5/08
(D.C. Mishra),
GM(Civil)

Cc to:

1. The Dir(Personnel), MCL for his kind information
2. The C.V.O., MCL for his kind information
3. All CGM/GM of the Area.
4. GM (Finance), MCL HQ
5. All SO© of the Area
6. Dy. CE©-I/ Dy. CE(C)-II/Dy. CE©-III, MCL HQ
7. SE©/Updation, MCL HQ/SE©/TC, MCL HQ

H. M. S.

SPECIFICATION AND SPECIAL TERMS AND CONDITIONS SPRAYING OF WATER ON THE C.T. ROAD FOR DUST SUPPRESSION.

1) **FREQUENCY OF WATER SPRAYING :-**

The contractor should adhere to the following schedule for ensuring the frequency of water spraying on the C.T. Road.

- | | | | |
|----|--------------------------------------------------------------|---|----------------------|
| a) | From 16 th June to 15 th September | - | () Times / Day. |
| b) | From 16 th September to 28 th February | - | () Times/Day. |
| c) | From 1 st March to 15 th June | - | () Times/Day. |

2) **TANKER**

One additional tanker should be available with the contractor to be used in case of any breakdown of any tanker without any additional cost and one responsible representative from the contractor side must be present at the site to co-ordinate with the Engineer / Overseer who is looking after the job with proper communication arrangement in each work.

The truck-mounted tanker fitted with sprinkler must be nos. of minimum 8000 liter capacity each (No. of tanker to be mentioned) and it should be in good running condition without any leakage. The sprinkler fitted in the tanker should properly function and its design/ hole size/directions be such that half the width ((approx.3.75m) be covered in to and fro movement for KM length (covering length to be mentioned) in one trip.

3) **TIME SCHEDULE OF SPRAYING :-**

The actual water spraying on C.T. road shall start positively by.... AM (time to be mentioned) daily (excluding the filling time of the tanker) and it shall take approximately 45 minutes to complete the spraying of one tanker of water. A period of 15 minutes shall be kept for covering the lead distances to the source of water and filling the tanker.

- 4) The spraying in each portion of road (..... KM length) shall be repeated at an interval of every hours during the period from 1st March to 15th June, while the same shall be repeated every hours interval during the period from 16th September to 28th February. During rainy season i.e from 16th June to 15th September the water spraying shall be done times on an average. But on rainy days no spraying will be done, however, the quantity saved during the above period may be utilized on dry days of the contract period as per the direction of Engineer In-charge(Civil).
- 5) During the operation/ execution of the work, one responsible representative from the contractor side must be present to co-ordinate with the Engineer/ Overseer who is looking after the job with proper communication arrangement (Mobile).
- 6) It is the responsibility of the contractor to maintain water spraying on C.T. road strictly as per schedule or as directed by Engineer In-charge (Civil) depending upon the climatic condition and traffic volume to arrest dust generation.

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- 7) In case of break-down of any tanker and its allied equipment, immediate alternative arrangement for water spraying shall be made by the contractor without any additional cost to maintain frequency of water spraying strictly as per time schedule as mentioned above.
- 8) The safety of the manpower engaged in road cleaning is fully contractor's responsibility. The contractor should arrange sufficient signboards and other safety equipments to ensure complete safety and security of the workmen engaged in the road.
- 9) Except on rainy days i.e in the period between 16th June to 15th September, any trip missed / not done on any day as per the schedule above will not be allowed to be compensated in balance period of day, without specific permission from Engineer In-charge, depending upon actual requirement.
- 10) Failure of water spraying as per the time schedule and / or failure of frequency of spraying on the part of the contractor will attract penalty as per the following terms :-
- (i) If there will be physical obstruction / stoppage of coal transportation by villagers/ others due to dust problems, because of delayed spraying / not making defined frequency of water spraying on the CT road by the contractor.
- (a) 100% of cost of KL(capacity of one full tanker) of water spraying on CT road @ awarded rate for each trip not done at all or for delayed trip beyond 45 minutes of scheduled timing.
- (b) 50% of cost of KL(capacity of one full tanker) of water spraying on CT road @ awarded rate for each delayed trip beyond 1/2 hours up to 45 minutes.
- (c) No penalty will be imposed if the frequency is delayed up to 1/2 hour.
- (ii) In case no physical obstruction / stoppage of coal transportation due to dust problem, because of delayed spraying / not making defined frequency of water spraying on the CT road by the contractor.
- (a) 50% of cost of.... KL(capacity of one full tanker) of water spraying on CT road @ awarded rate for each delayed trip beyond 45 minutes scheduled timing.
- (b) 25% of cost ofKL(capacity of one full tanker) of water spraying on CT road @ awarded rate for each delayed trip beyond 1/2 hours up to 45 minutes.
- (c) No penalty will be imposed if the frequency is delayed up to 1/2 hour.

However, cumulative effect of all such penalty levied should not be more than 10% of the work order value.

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