



दिल्ली सरकार  
प्रमुख अभियंता, लो०नि०वि०,  
12वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली: 110002  
☎ 23317926, 23724561, 23317520, फ़ैक्स 23766924  
Toll Free Complaint No. 1800 11 0093  
वेबसाइट: <http://pwd.delhigovt.nic.in>  
ई-मेल: [pwdhqdelhi@gmail.com](mailto:pwdhqdelhi@gmail.com)/[dppwdhqdelhi@gmail.com](mailto:dppwdhqdelhi@gmail.com)



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दिनांक: 21.08.2017

### कार्यालय ज्ञापन

**विषय: Cleaning of Sewer line and sewerage system- Safety measures regarding.**


The cleaning of deep Sewer line and sewerage system should be carried out mechanically as per instruction issued from time to time. In case it is not possible to clean the deep sewer line and sewerage system mechanically, the following detailed safety measures given in CPWD General Condition of Contract 2014 under head CPWD Safety Code should be complied strictly to clean the sewer line and sewerage system manually:

*When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated atleast for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :-*

- a) *Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.*
- b) *At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.*
- c) *Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.*
- d) *Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.*
- e) *Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.*
- f) *The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.*
- g) *No smoking or open flames shall be allowed near the blocked manhole being cleaned.*
- h) *The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.*
- i) *Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time up to which a worker may be allowed to work continuously inside the manhole.*
- j) *Gas masks with Oxygen Cylinder should be kept at site for use in emergency.*

- k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
- l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
- m) The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.

This issues with the approval of E-in-C, PWD.

  
(संजीव रस्तोगी)  
निदेशक(कार्य एवम् स्थापना)

प्रतिलिपि:-

1. प्रधान मुख्य अभियंता (अनुरक्षण), लो.नि.वि, 9वाँ तल, एम.एस.ओ.भवन, नई दिल्ली।
2. प्रधान मुख्य अभियंता (परियोजनाएं), लो.नि.वि, 9वाँ तल, एम.एस.ओ.भवन, नई दिल्ली।
3. मुख्य अभियंता(उत्तर), लो.नि.वि, 5वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
4. मुख्य अभियंता(दक्षिण), लो.नि.वि, 7वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
5. मुख्य अभियंता(पूर्व), लो.नि.वि, तीसरा तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
6. मुख्य अभियंता(स्वास्थ्य) अनुरक्षण, लो.नि.वि, दूसरा तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
7. मुख्य अभियंता(शिक्षा) अनुरक्षण, लो.नि.वि, पहला तल, बहु-मंजिला भवन, नई दिल्ली-02।
8. मुख्य परियोजना प्रबंधक (स्वास्थ्य), लो.नि.वि, 6वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
9. मुख्य परियोजना प्रबंधक (गृह), लो.नि.वि, 13वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
10. मुख्य परियोजना प्रबंधक (शिक्षा), लो.नि.वि, दूसरा तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।
11. मुख्य परियोजना प्रबंधक (अन्य), लो.नि.वि, 13वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली-02।

  
निदेशक(कार्य एवम् स्थापना)