



HYDERABAD

# STANDARD TECHNICAL SPECIFICATION FOR SUPPLY AND LAYING R.C.C. PIPES

PEDC/STD.SPEC/  
24- REV 00

Page 1 of 4

## SUPPLY AND LAYING R.C.C. PIPES

REV. NO.	PRAPARED	APPROVED	DATE
00	Marina	P Mishra	

### **COPYRIGHT AND CONFIDENTIAL**

The information on this document is the property of BHARAT HEVY ELECTRICAL LTD.It must not be used directly or indirectly in any way detrimental to the interest of the Company.



HYDERABAD

## STANDARD TECHNICAL SPECIFICATION FOR SUPPLY AND LAYING R.C.C. PIPES

PEDC/STD.SPEC/  
24- REV 00

Page 2 of 4

### 1.0 SCOPE

This specification covers the supply and laying of R.C.C Hume Pipes as per drawings and instruction of the Engineer. The entire work shall be carried out as per latest editions of Indian Standards IS:458 and IS:783.

### 2.0 Supply of PIPES

The Contractor shall supply the R.C.C Hume Pipes of various diameters along with complete fittings required for carrying out the work. All R.C.C Hume Pipes should conform to IS:458 and should be in a good condition. The Contractor must furnish, on being demanded by the Engineer, manufacturer's certification and/or test certificates from recognized authorities.

### 3.0 ALIGNMENT, LEVELS AND GRADE

The work shall be carried out in conformance to the alignments, levels, and grades specified in the drawings. The layout and levels shall be made by him at his own cost from one reference grid and bench mark given by the Engineer. He shall give all help in instruments, materials and men to the Engineer for checking and detailed layout and levels as and when required.

Making of reference layout and level pillars along the pipeline route and maintaining them

Upto completion of the work shall be the responsibility of the Contractor.

No extra payment shall be made for these.

### 4.0 LAYING OF PIPES

#### a) General:

The laying of R.C.C. Pipes shall conform to the Clause 9 of IS:783.

#### b) Conditions for laying:

The conditions for laying of pipes to suit the conditions at site and/or as per drawings and instructions of the Engineer shall be as classified below.

##### i) Culvert Condition

In this condition the pipe is laid under combankment and may project wholly or partly above the original ground surface.

##### ii) Trench Condition



HYDERABAD

## STANDARD TECHNICAL SPECIFICATION FOR SUPPLY AND LAYING R.C.C. PIPES

PEDC/STD.SPEC/  
24- REV 00

Page 3 of 4

In this condition the pipe is laid in a trench excavated for the purpose. The trench shall be refilled with thoroughly tampered earth after laying and jointing of pipes in approved manner.

### iii) Open Condition

In this condition the pipe is laid such that it projects wholly or partly above original ground surface, there being no superimposal over burden on the pipe.

### c) Bedding & Supports

#### i) Culvert Condition

In this condition the pipes shall be laid generally on First Class Bedding” as per Clause No. 4.3. of IS:783, unless directed otherwise.

#### ii) Trench Condition

In this condition the pipes shall be laid generally on “First Class Bedding” as per Clause No.4.2.3 of IS:783, unless directed otherwise.

#### iii) Concrete Cradic Bedding

If required by the drawing or so instructed by the Engineer, the pipes, shall be laid on Concrete cradles, conforming to Clause No.4.2.3 of IS:783 in case of trench condition and conforming to Clause 4.3.4 of IS:783 in case of culvert condition.

#### iv) Open Condition

In open condition the pipeline shall be supported over rigid pedestal constructed at intervals not greater than the length of one individual piece of pipe. As per drawings and instructions of the Engineer. In no case shall the joint between two pieces of pipe shall lie at center of the span between two supports. The pedestal shall be of rubble masonry, or brick masonry or plain/reinforced concrete with a properly shaped out top to receive the pipe.

### d) Handling of Pipes

The pipes shall be handled with all possible care while loading, uploading, transporting and lowering them in position. The method of handling during all the stages of the work should be to the approval of the Engineer and should preferably employ mechanical means like use of chain pulley block an the like.

### e) Jointing of Pipes



HYDERABAD

## STANDARD TECHNICAL SPECIFICATION FOR SUPPLY AND LAYING R.C.C. PIPES

PEDC/STD.SPEC/  
24- REV 00

Page 4 of 4

The Clause 10 of IS:783 shall be applicable for jointing of pipes and every possible care shall be taken. The Contractor to ensure that the joints made are leak proof, Curing of joints shall be done for a period of 10 days. No extra payment shall be made for making and curing of joints.

### 5.0 MEASUREMENT

R.C.C. Pipes shall be measured on running meter basis and paid for at the unit rate quoted by the Contractor. The rate shall include supply, laying in position, preparation of "First Class bedding", jointing with supply of all fittings, fixtures and joint materials, complete as per drawings and schedule of items.

Payments for excavation of trenches, backfilling of trenches, making of embankments, brickwork, rubble masonry work, plain and /or reinforced concrete work in concrete cradle beddings, pedestals for pipe supports and other associated works shall be made as per relevant unit rates quoted by the Contractor in the Schedule of Items.