



# **GOVERNMENT OF ANDHRA PRADESH**

## **SCHEDULE OF RATES AS PER A.P. REVISED STANDARD DATA FOR THE YEAR 2010-2011 (Effective from 1st June, 2010)**

**BOARD OF CHIEF ENGINEERS**



**Office of the Engineer-in-Chief (I.W.)  
I & CAD Dept., Errum manzil, Hyderabad.**

Procs.No.ENC/IW/P&M/EE3/DEE10/AE/13305/10/Vol-30 , dt: 15-7-2010.

Sub:- Schedule of Rates as per Revised Standard Data for the year 2010-11 – Irrigation & CAD works (part-1) and Drinking water supply schemes (part-4) - approved-  
Printing & Communication of SoRs – Reg.,

Ref:- 1. G.O.Ms.No.49, I & CAD (PW: Reforms) Dept., dt.:2-3-2009.

2. E-in-C (PH) Lr.No.146/SSR/2010-11/Vol-1/T1/2010 Dt.24.05.2010.

3. Commissioner, labour department Lr.No:N1/2723/2010, dt: 05-05-2010.

4. Minutes of B.O.CE's meeting for Schedule of Rates held on dt.29-5-2010&22-6-10.

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The Government have approved Revised Standard Data vide ref 1<sup>st</sup> cited. The Schedule of Rates as per A.P. Revised Standard Data for the year 2010-11 is approved based on the following.

The Engineer-in-Chief, Public health Department has furnished draft rates for Public Health Work Items and Public Health materials vide ref 2<sup>nd</sup> cited.

For Irrigation & CAD Work Items, the regional Superintending Engineers of Irrigation Circles of Hyderabad, Chittoor & Dowlaiswaram in charge of Telangana, Rayalaseema and Andhra regions respectively have submitted the draft basic rates of materials. The Superintending Engineer, Mechanical Circle, Hyderabad has furnished draft rates of mechanical and workshop items. Accordingly, the draft rates for Irrigation & Command Area Development are prepared.

The labour rates are obtained from the Commissioner, labour department vide reference 3<sup>rd</sup> cited for finalizing the rates for SoR 2010-11.

Based on the proposals, the draft Schedule of Rates for the year 2010-11 were reviewed and finalized in the annual Board of Chief Engineers meeting held on 29-5-2010 & 22-6-2010.

The Procedure for the adoption of Irrigation work items, lead & lift charges (Common to all departments) is incorporated in the Annexure-A of SoR.

One hard copy & compact disc containing Schedule of Rates & Standard data-Part-1(soft copy) are here with communicated. No other items other than the items communicated by this Office shall be introduced in the SoR.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2010-11. The unauthorized printing & selling of the SoR is strictly prohibited. The Schedule of Rates for 2010-11 will be in force until the new SoR comes in to force.

The revised rates will come into force from 1<sup>st</sup> June of 2010.

The receipt of the proceedings may be acknowledged.

Encl: Annexure-A.

Sd/- M.K.Rahaman,15-7-2010  
Engineer-in-Chief (I.W.)  
Chairman, BOCE(S.R)

**I) Copy Communicated to the following Heads of Departments along with Enclosures for information.**

1) Engineer-in-Chief (Admn & NH)., Roads & Buildings Department.

- 2) Engineer-in-Chief (P.H.), Public Health Department.
  - 3) Engineer-in-Chief (P.R.), Panchayath Raj Department.
  - 4) Engineer-in-Chief (RWS) R W S, Department.
  - 5) Chief Engineer (Buildings), R&B Department.
  - 6) Copy of C.D containing Schedule of Rates 2010-11 & Standard data, part-1(Irrigation &CAD works) to all Engineers-in-Chief, Chief Engineers of Irrigation & CAD Department for favour of information.
- II)** Copy to The Superintending Engineer, Irrigation Circle, I&CAD Department, Red Hills, Hyderabad for necessary action.

Sd/-M.K.Rahaman,15-7-2010  
Engineer-In-Chief (IW)  
Chairman, B.O.C.E (SoR)

**Important – Read The following**

**ANNEXURE- A**

- 1) The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of Irrigation work items.
- 2) The lead and lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & Lift charges chapter in the I&CAD works (Part-1) of A.P. Revised standard data.
- 3) Further, the CGG has also developed estimate preparation package to use in the preparation of estimates duly making provision for incorporation of applicable lead & lift for different materials, Area allowances for labour, Dewatering charges and VAT as additional.
- 4) For Gates & Hoist works, the excise duty on the fabrication of work (other than materials) shall be added as per the Government Orders issued from time to time while preparing the estimate.
- 5) The estimate sanctioning authority shall physically verify each and every Irrigation work item data incorporated in the estimate with basic input data before sanction of the estimate. **Any lapses or arithmetic errors arising in the sanction of data's / estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.**
- 6) Any discrepancies / corrections required for improper basic input data appearing in the approved data's of Irrigation work items in the software package and hard copy of SoR & Standard data's (part-1) may be brought to the notice of undersigned for issuing corrections.

Sd/- M.K.Rahaman, 15-7-2010  
Engineer-In-Chief (IW)  
Chairman, B.O.C.E (S.R)



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# **PREAMBLE**

**PREAMBLE**

**I.o AREA ALLOWANCES:**

**A) CORPORATIONS & MUNICIPALITIES:**

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Hyderabad, Greater Visakhapatnam and Vijayawada municipal corporations ( up to a belt of 12 Kms. from Municipal Corporation limits ) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Hyderabad , Greater Visakhapatnam and Vijayawada Municipal Corporation ( up to a belt of 12 Kms. from Municipal Corporation limits ).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits ( up to a belt of 12 Kms from Municipal limits ).
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapleswara Swamy Temple, Kapilatheerthm, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

**B) JAIL COMPOUNDS:**

15% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

**C) INDUSTRIAL AREA:**

- a. 20% over basic rates on labour component works allowed for works situated within 10 Kms belt of Industrial area of, Jeedimetla, Lingampally, Ibrahimpatnam, Tandur in Ranga Reddy District, Ibrahimpatnam, Vuyyuru, Jaggaiahpetta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District, Garividi in Vijayanagaram District, Kothur in Mahabubnagar District, Patancheru, Ramachandrapur in Medak District, Bibinagar in Nalgonda District, Ramagundam and Godavarikhani in Karimnagar District, Renigunta in Chittoor District and Yerraguntla & Mangampet in Kadapa District, Manchiryal, Mandamarri, Bellampalli in Adilabad District, Sarpaka, Kothagudem, Paloncha, Manguguru, Singareni Collieries in Khammam District, Kamalapur, Bhoopalpally of Warangal District, Wadepally of Nalgonda District, Nagapally (Centenary Colony, Begumpet "X" roads), Takkalapally of Karimnagar District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and

**D) AGENCY / TRIBAL AREAS:**

- a) 25% extra is allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located with in & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
- 1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
  - 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
  - 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

**E) GHAT ROADS:**

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

**Foot Note:** Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 1/2 times of actual length.

**Note below area allowances:**

If more than one area allowance ( such as those ) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

**2.0 EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -**

**I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -**

**A. TRIAL TRENCHES:**

- 1) Trial trenches of not more than 2 metres in width...25% extra

**B. TRIAL PITS:**

- |                               |     |            |
|-------------------------------|-----|------------|
| 1) Up to 2 Metres depth       | ... | 25% extra  |
| 2) 2 Metres to 4 Metres depth | ... | 50% extra  |
| 3) 4 Metres to 6 Metres depth | ... | 75% extra  |
| 4) 6 Metres to 8 Metres depth | ... | 100% extra |

|                               |     |            |
|-------------------------------|-----|------------|
| 5) 8 Metres to 9 Metres depth | ... | 150% extra |
| 6) More than 9 Metres depth   | ... | 200% extra |

## **II) EXCAVATION IN RESTRICTED PLACES:-**

|   |     |            |
|---|-----|------------|
| I) Foundation of Buildings  | ... | 75% extra  |
| II) For pipe lines where the depth is less than 1.5 times the width   | ... | 75% extra  |
| III) For pipe lines where the depth is 1.5 times or more than the width   | ... | 120% extra |
| IV) Silt removal in restricted areas such U. T's., Culverts and Syphons.  | ... | 120% extra |
| V) Excavation of field channels   | ... | 75% extra  |
| VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals. | ... | 75% extra  |
| VII) High berm cutting of not more than 150 mm average thickness and sectioning for roads   | ... | 50% extra  |

**Note:** 1) The extra percentage is allowed over S. S. 20 B rate for corresponding soil. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under ( A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

### **3.0 SEIGNIORAGE CHARGES:**

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.198 (Industries and Commerce department), dated 13. 8.2009 may be added in the data of rates in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

# LABOUR RATES

**LABOUR RATES**

| <b>Sl No.</b> | <b>CATEGORY OF WORKER</b>   | <b>S. Rate for 2010-11</b> |
|---------------|---|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>                   |
| <b>I.</b>     | <b>SKILLED CATEGORY:</b>  |                            |
| 1             | Bar bender  | 258.00                     |
| 2             | Black smith / Tin smith / Rivetor   | 258.00                     |
| 3             | Blaster ( Licensed )  | 258.00                     |
| 4             | Carpenter Cl- I   | 258.00                     |
| 5             | Electrician ( Licensed )  | 258.00                     |
| 6             | Fitter Cl- I  | 258.00                     |
| 7             | Floor Polisher / Tile Layer   | 258.00                     |
| 8             | Foreman   | 258.00                     |
| 9             | Gauge reader  | 237.00                     |
| 10            | Maistry / Work Inspector with Non-technical Qualification<br>SSLC/SSC/HSC | 250.00                     |
| 11            | Mason Cl- I / Brick layer Cl- I   | 258.00                     |
| 12            | Mechanic Cl- I  | 258.00                     |
| 13            | Operator Air compressor / DG set  | 258.00                     |
| 14            | Operator Batching plant   | 258.00                     |
| 15            | Operator Bus/Ambulance/ Lorry/ Tanker                                     | 257.00                     |
| 16            | Operator Concrete / Asphalt mixer   | 258.00                     |
| 17            | Operator Concrete / Asphalt paver   | 258.00                     |
| 18            | Operator Concrete pump / Placer/ ice plant                                | 258.00                     |
| 19            | Operator Core drilling machine  | 258.00                     |
| 20            | Operator Crane/ Tower crane/ Cable way                                    | 258.00                     |
| 21            | Operator Drilling jumbo / Loco / Winch                                    | 258.00                     |
| 22            | Operator Grouting/ Guniting/ Shotcreting                                  | 258.00                     |
| 23            | Operator Jackhammer/Pneumatic tamper                                      | 258.00                     |
| 24            | Operator Pump / Ventilation fan   | 258.00                     |
| 25            | Operator Lathe/Drilling/Shearing machine                                  | 258.00                     |
| 26            | Operator Bending / Planing machine  | 258.00                     |
| 27            | Operator Road roller  | 257.00                     |
| 28            | Operator Shovel / Scraper / Dozer   | 258.00                     |
| 29            | Operator Spillway / Sluice gate   | 258.00                     |

| Sl No.     | CATEGORY OF WORKER                          | S. Rate for 2010-11 |
|------------|---|---------------------|
| <b>1</b>   | <b>2</b>                                    | <b>3</b>            |
| 30         | Operator Crusher / Conveyor / Mucker        | 258.00              |
| 31         | Operator Tipper / Dumper / Transit mixer    | 277.00              |
| 32         | Operator Concrete vibrator                  | 258.00              |
| 33         | Operator Vibratory plain / pad foot roller  | 257.00              |
| 34         | Operator Wagon drill / Drifter              | 258.00              |
| 35         | Painter CI- I                               | 258.00              |
| 36         | Plumber ( Licensed ) / Pipe fitter          | 258.00              |
| 37         | Sarang / Khalasi                            | 258.00              |
| 38         | Spun pipe moulder                           | 258.00              |
| 39         | Stone chiseller CI- I / Stone cutter CI- 1  | 258.00              |
| 40         | Struct. steel Fabricator / Marker / Erector | 258.00              |
| 41         | Welder / Gas Cutter                         | 258.00              |
| 42         | Welder (X-ray quality)                      | 258.00              |
| <b>II.</b> | <b>SEMI SKILLED CATEGORY:</b>               |                     |
| 1          | Asphalt Sprayer / Boiler attendant          | 237.00              |
| 2          | Bhisti                                      | 237.00              |
| 3          | Boatman with boat                           | 247.00              |
| 4          | Carpenter CI- II / Erector shuttering       | 237.00              |
| 5          | Cartman with double bullock cart            | 277.00              |
| 6          | Cartman with single bullock cart            | 256.00              |
| 7          | Chavali / Navagani                          | 237.00              |
| 8          | Crowbarman / Jumper man                     | 237.00              |
| 9          | Fitter CI- II                               | 237.00              |
| 10         | Gang man / Head / Survey mazdoor            | 237.00              |
| 11         | Gardener / Trained mali                     | 237.00              |
| 12         | Helper Air compressor / DG set              | 237.00              |
| 13         | Helper Batching plant                       | 237.00              |
| 14         | Helper Blasting                             | 237.00              |
| 15         | Helper Bus/ Ambulance/ Lorry/ Tanker        | 237.00              |
| 16         | Helper Bending/Shearing/Planing machine     | 237.00              |
| 17         | Helper Carpenter                            | 237.00              |
| 18         | Helper Concrete / Asphalt mixer             | 237.00              |

| Sl No.      | CATEGORY OF WORKER                      | S. Rate for 2010-11 |
|-------------|---|---------------------|
| <b>1</b>    | <b>2</b>                                | <b>3</b>            |
| 19          | Helper Concrete / Asphalt paver         | 237.00              |
| 20          | Helper Core drilling machine            | 237.00              |
| 21          | Helper Crane/ Tower crane/ Cable way    | 237.00              |
| 22          | Helper Drilling jumbo / Loco / Winch    | 237.00              |
| 23          | Helper Fitter / Fabrication             | 237.00              |
| 24          | Helper Grouting/ Guniting/ Shotcreting  | 237.00              |
| 25          | Helper Jack hammer / Pneumatic tamper   | 237.00              |
| 26          | Helper Laboratory / Instrumentation     | 237.00              |
| 27          | Helper Road roller                      | 237.00              |
| 28          | Helper Shovel / Scraper / Dozer         | 237.00              |
| 29          | Helper Crusher / Conveyor / Mucker      | 237.00              |
| 30          | Helper Tipper / Dumper/ Transit mixer   | 237.00              |
| 31          | Helper Vibrator                         | 237.00              |
| 32          | Helper Vibratory plain/ pad foot roller | 237.00              |
| 33          | Helper Wagon drill/ Drifter             | 237.00              |
| 34          | Lineman Electric / Telephone            | 237.00              |
| 35          | Mason Cl- II / Brick layer Cl-II        | 237.00              |
| 36          | Mechanic Cl- II                         | 237.00              |
| 37          | Painter Cl- II                          | 237.00              |
| 38          | Patkari / Neeraganti / Sowdy            | 237.00              |
| 39          | Stone Chiseller Cl- II                  | 237.00              |
| 40          | Stone breaker / Hammer man              | 237.00              |
| 41          | Valve man / Canal sluice operator       | 237.00              |
| <b>III.</b> | <b>UN-SKILLED CATEGORY:</b>             |                     |
| 1           | Cement / Asphalt handling mazdoor       | 196.00              |
| 2           | Civic worker                            | 196.00              |
| 3           | Heavy mazdoor                           | 196.00              |
| 4           | Light mazdoor                           | 196.00              |
| 5           | Watchman                                | 196.00              |
| <b>IV.</b>  | <b>OTHER CATEGORY:</b>                  |                     |
| 1           | Care-taker / conductor / Lift Attender  | 237.00              |
| 2           | Cook / Mess man                         | 237.00              |



| Sl No.   | CATEGORY OF WORKER   | S. Rate for 2010-11 |
|----------|--|---------------------|
| <b>1</b> | <b>2</b>   | <b>3</b>            |
| 3        | Dhobi  | 237.00              |
| 4        | Diploma Engineer / Surveyor  | 350.00              |
| 5        | Diver with headgear  | 288.00              |
| 6        | Graduate / Laboratory Assistant  | 288.00              |
| 7        | Graduate Engineer/ Geologist   | 400.00              |
| 8        | Horticulture Assistant / Photographer  | 250.00              |
| 9        | ITI certificate holder / Tracer / Printer                                    | 288.00              |
| 10       | Literate mazdoor   | 237.00              |
| 11       | Stenographer / Computer Operator   | 300.00              |
| 12       | Telephone / Wireless Operator  | 288.00              |
| 13       | Typist / Job Typist  | 288.00              |
|          | <b>NEW ITEMS:</b>  |                     |
| 14       | CAD operator with Diploma in Engineering/General degree with CAD certificate | 350.00              |
| 15       | Jeep Driver  | 250.00              |

Note: - 1)The wage should not be less than the minimum wages of schedule of employment, subject to out turn. 2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Hyderabad Municipal Corporation, Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation limits only.

# **BASIC INPUT DATA FOR IRRIGATION WORK ITEMS**

**STATEMENT OF RATES FOR MATERIALS**  
**FOR THE YEAR : 2010-11**  
**GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

- 1 Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
- 2 The rates for materials is inclusive of all taxes, duties and other local levies.
- 3 The rates for materials is inclusive of seigniorage charges wherever applicable.
- 4 The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.
5. The rates provided for useful rubble / stone chips from excavation shall be at dump yard.

| SI No. | DESCRIPTION OF MATERIAL   | UNIT  | S. Rate for 2010-11 |
|--------|---|-------|---------------------|
| 1      | 2   | 3     | 4                   |
| 1      | Acetylene gas   | cum   | 250.00              |
| 2      | Asphalt 80/ 100 Grade   | Kg    | 30.00               |
| 3      | Binding wire  | Kg    | 52.00               |
| 4      | Burnt stone slab 10 cm thick  | sqm   | 210.00              |
| 5      | Cement 43 Gr (including loading charges)  | tonne | 3,700.00            |
| 6      | Chequered plate   | Kg    | 40.00               |
| 7      | Coarse aggregate 10-4.75 mm(including seigniorage charges)  | cum   | 750.00              |
| 8      | Coarse aggregate 20-10 mm(including seigniorage charges)  | cum   | 1025.00             |
| 9      | Coarse aggregate 40-20 mm(including seigniorage charges)  | cum   | 975.00              |
| 10     | Coarse aggregate 80-40 mm(including seigniorage charges)  | cum   | 560.00              |
|        | The aggregate rates mentioned above (from sl.no.7 to sl.no.10) are inclusive of seigniorage charges of Rs.50/ cum, blasting charges of Rs.70/cum and 25% machine crushing charges. However , if the metal is obtained from hand broken , the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap.( Quartzite and Basalt with aggregate Impact of Less than 20) |       |                     |
| 11     | Coir brush  | Each  | 22.00               |
| 12     | Copper sheet 16 SWG   | kg    | 430.00              |
| 13     | Coursed rubble stone 30 x 30 x 45 cm(including seigniorage charges)   | Each  | 13.00               |
| 14     | Coursed rubble stone 30 x 30 x 60 cm(including seigniorage charges)   | Each  | 15.00               |

## Basic Input Data Irrigation

| Sl No. | DESCRIPTION OF MATERIAL   | UNIT  | S. Rate for 2010-11 |
|--------|---|-------|---------------------|
| 1      | 2   | 3     | 4                   |
| 15     | Curing Compound   | ltr   | 95.00               |
| 16     | D - cord  | Rm    | 10.00               |
| 17     | Delay - noiseless trunk   | Each  | 18.00               |
| 18     | Detonating fuse coil  | Rm    | 7.00                |
| 19     | Detonating shock tube / Cord relays                                 | Rm    | 50.00               |
| 20     | Detonator delay type  | Each  | 17.00               |
| 21     | Detonator electric  | Each  | 10.00               |
| 22     | Detonator ordinary  | Each  | 5.00                |
| 23     | Empty cement bag  | Each  | 3.00                |
| 24     | Explosive ANFO  | kg    | 27.00               |
| 25     | Explosive ANFO high strength booster                                | kg    | 60.00               |
| 26     | Explosive small dia ( Kelvex-220 or equivalent)                     | kg    | 50.00               |
| 27     | Fine aggregate / sand ( unscreened )(including seigniorage charges) | cum   | 130.00              |
| 28     | Fine aggregate / sand ( screened )(including seigniorage charges)   | cum   | 260.00              |
| 29     | Geo-textile ( filter fabric ) 160 gsm                               | sqm   | 75.00               |
| 30     | Geo-textile ( filter fabric ) 200 gsm                               | sqm   | 90.00               |
| 31     | Geo-textile ( filter fabric ) 250 gsm                               | sqm   | 110.00              |
| 32     | G I Pipe 100 mm dia B Class   | Rm    | 525.00              |
| 33     | G I Pipe 15 mm dia A class  | Rm    | 75.00               |
| 34     | G I pipe 25 mm dia A class  | Rm    | 110.00              |
| 35     | G I pipe 40 mm dia B class  | Rm    | 180.00              |
| 36     | G I pipe 50 mm dia A class  | Rm    | 220.00              |
| 37     | G I Pipe 80 mm dia B Class  | Rm    | 280.00              |
| 38     | G.I Bolts / Nuts and Washers  | kg    | 75.00               |
| 39     | G.I sheet ( plain )   | tonne | 44,000.00           |
| 40     | Hariyala turfing sods   | sqm   | 20.00               |
| 41     | Hectometer stone one line dressed                                   | Each  | 165.00              |
| 42     | Hemp yarn   | kg    | 55.00               |
| 43     | Honne wood planks   | cum   | 42,000.00           |
| 44     | Hume pipe with collar 150 mm dia                                    | Rm    | 210.00              |

| SI No. | DESCRIPTION OF MATERIAL  | UNIT  | S. Rate for 2010-11 |
|--------|--|-------|---------------------|
| 1      | 2  | 3     | 4                   |
| 45     | Hume pipe with collar 300 mm dia   | Rm    | 420.00              |
| 46     | J- Bolts 30 cm long  | Each  | 22.00               |
| 47     | Jungle wood planks   | cum   | 16,000.00           |
| 48     | Khandki stone 15 to 20 cm height   | Each  | 7.00                |
| 49     | Khandki stone 20 to 25 cm height   | Each  | 9.00                |
| 50     | Khandki stone 25 to 30 cm height   | Each  | 11.00               |
| 51     | Kilometer stone one line dressed   | Each  | 315.00              |
| 52     | LDPE sheet ( Geo membrane ) 500 micron thick   | sqm   | 63.00               |
| 53     | LDPE sheet ( Geo membrane ) 750 micron thick   | sqm   | 94.00               |
| 54     | LDPE sheet ( Geo membrane ) 1000 micron thick  | sqm   | 125.00              |
| 55     | M S Bolts / Nuts / Washers   | kg    | 50.00               |
| 56     | Murum(including seigniorage charges and loading charges )                              | cum   | 72.50               |
| 57     | Oxalic acid  | ltr   | 55.00               |
| 58     | Oxygen gas   | cum   | 38.00               |
| 59     | PVC sealing strip  | Rm    | 34.00               |
| 60     | PVC water stopper 310 mm wide  | Rm    | 380.00              |
| 61     | PVC pipe of 100 mm dia   | Rm    | 135.00              |
| 62     | Reinforcement steel (including loading charges) (HYSD/TMT )                            | tonne | 34,000.00           |
| 63     | Resin bond Cement capsule  | Each  | 52.00               |
| 64     | Rough stone 20 x 20 x 75 cm ( Including Seigniorage Charges)                           | Each  | 11.00               |
| 65     | Shahabad stone slab (including seigniorage charges and loading charges)                | sqm   | 170.00              |
| 66     | Stone chips ( at dump yard / Spoil)(including seigniorage charges and loading charges) | cum   | 160.00              |
| 67     | Stone chips ( at quarry )(including seigniorage charges and loading charges)           | cum   | 286.00              |
| 68     | Structural steel angle / channel / beam / bars (including loading charges)             | tonne | 34,000.00           |
| 69     | Structural steel plate / flats (including loading charges)                             | tonne | 40,000.00           |
| 70     | Super Plasticizer ( Conplast RP-264 or equivalent )                                    | kg    | 50.00               |
| 71     | Synthetic Enamel paint 1st quality   | ltr   | 175.00              |
| 72     | Synthetic adhesive ( Resin + Hardener )  | Kg    | 180.00              |

## Basic Input Data Irrigation

| Sl No. | DESCRIPTION OF MATERIAL   | UNIT | S. Rate for 2010-11 |
|--------|---|------|---------------------|
| 1      | 2   | 3    | 4                   |
| 73     | Tar felt joint filler board 12 mm thick   | sqm  | 320.00              |
| 74     | Tar felt joint filler board 20 mm thick   | sqm  | 520.00              |
| 75     | Through stones 20 x 20 x 30 to 45 cm long(including seigniorage charges and loading charges)        | Each | 16.00               |
| 76     | Through stones 25 x 25 x 45 to 60 cm long(including seigniorage charges and loading charges)        | Each | 27.00               |
| 77     | Through stones 30 x 30 x 65 to 75 cm long(including seigniorage charges and loading charges)        | Each | 38.00               |
| 78     | Un-coursed rubble stones ( at dump yard /Spoil )(including seigniorage charges and loading charges) | cum  | 140.00              |
| 79     | Un-coursed rubble stones ( at quarry )(including seigniorage charges and loading charges)           | cum  | 230.00              |
| 80     | Water proofing compound   | kg   | 55.00               |
| 81     | Welding electrodes 4 mm dia   | Each | 9.00                |
| 82     | Wire brush  | Each | 30.00               |
| 83     | Wire mesh 20 gauge  | sqm  | 160.00              |
| 84     | Zinc chromate red oxide primer paint  | ltr  | 90.00               |
| 85     | inorganic zinc silicate   | ltr  | 440.00              |
| 86     | solvent less coal tar epoxy paint   | ltr  | 180.00              |
| 87     | Zinc phosphate primer   | ltr  | 155.00              |
| 88     | Allkyd based iron oxide paint   | ltr  | 120.00              |
| 89     | cost of hdpe /light black MS casing pipe (150 mm Dia)   | Rm   | 525.00              |
| 90     | welded steel wire fabric 100X100X5 mm size  | Kg   | 105.00              |

Basic Input Data Irrigation

**ADDITIONAL MATERIALS FOR GATES & HOISTS  
FOR THE YEAR : 2010-11**

**GUIDE LINES :**

a. For cast steel / Alloy steel / Forged steel / Bronze, aluminum alloy components the rates shall be inclusive of cost of basic metal for these components, casting / forging charges, machining charges and applicable excise duty on finished alloy component.

|  | Basic<br>metal /<br>kg | Casting /<br>machining<br>or forging<br>/ kg | Excise<br>duty on<br>( 1 + 2 )<br>% | Total<br>rate /<br>(1+2+3)<br>Kg |
|--|------------------------|--|-------------------------------------|----------------------------------|
|  | 1                      | 2  | 3                                   | 4                                |
| Cast steel components :( Basic metal - steel )             | 17.00                  | 56.25  | 13.19                               | 100                              |
| Wheel / Pulley / Hub / Plummer / Roller                    | 17.00                  | 64.69  | 14.7                                | 95                               |
| Drum / Gear Pinion   | 17.00                  | 73.13  | 16.22                               | 105                              |
| Forged steel components : ( Basic metal - structural steel |                        |  |                                     |                                  |
| Hook / Shackle   | 24.00                  | 84.38  | 19.51                               | 130                              |
| Alloy steel components : ( Basic metal - alloy steel )     |                        |  |                                     |                                  |
| Shaft ( carbon steel )                                     | 60.00                  | 61.88  | 21.94                               | 145                              |
| Pin ( stainless steel )                                    | 80.00                  | 67.5   | 26.55                               | 175                              |
| Bronze, aluminum alloy components : ( Bronze alloy )       |                        |  |                                     |                                  |
| Bearing / Bush   | 175.00                 | 146.25                                       | 57.83                               |                                  |

b. The rate in the total rate column is rounded off to nearest Rs : 5.00.

c. For other materials the rates shall be prevailing market rates.

| SI No. | DESCRIPTION OF MATERIAL                                  | UNIT | S. Rate<br>for<br>2010-11 |
|--------|--|------|---------------------------|
| 1      | 2  | 3    | 4                         |
| 1      | Alloy steel ( IS : 1570-carbon steel ) shafts            | kg   | 145.00                    |
| 2      | Alloy steel ( IS : 1570-stainless steel ) pins           | kg   | 275.00                    |
| 3      | Bolt / Nut / Washer ( hot dipped galvanized )            | kg   | 90.00                     |
| 4      | Bolt / Nut / Washer ( stainless steel )                  | kg   | 200.00                    |
| 5      | Bronze/Aluminum alloy(IS:305)bearings/bushes             | kg   | 550.00                    |
| 6      | Cast iron blocks   | kg   | 55.00                     |
| 7      | Cast steel drums / gears                                 | kg   | 110.00                    |
| 8      | Cast steel pinions                                       | kg   | 155.00                    |
| 9      | Cast steel wheels / pulleys / hubs / rollers / retainers | kg   | 120.00                    |

## Basic Input Data Irrigation

| SI No. | DESCRIPTION OF MATERIAL  | UNIT | S. Rate<br>for<br>2010-11 |
|--------|--|------|---------------------------|
| 1      | 2  | 3    | 4                         |
| 10     | Chemical for de-greasing/ derusting/phosphate coating                | ltr  | 100.00                    |
| 11     | Coal tar epoxy paint   | ltr  | 130.00                    |
| 12     | Forged steel hooks / shackles  | kg   | 175.00                    |
| 13     | MS pipe 200 / 300 mm dia   | kg   | 120.00                    |
| 14     | MS pipe 32 mm dia  | Rm   | 130.00                    |
| 15     | MS pipe 25 mm dia  | Rm   | 115.00                    |
| 16     | Rubber bottom seal ( IS : 11855 )                                    | Rm   | 530.00                    |
| 17     | Rubber side seal ( music note type Teflon claded )<br>( IS : 11855 ) | Rm   | 1000.00                   |
| 18     | Rubber side seal ( music note type uncladed )<br>( IS : 11855 )      | Rm   | 850.00                    |
| 19     | Rubber side seal Z-type ( IS : 11855 )                               | Rm   | 1800.00                   |
| 20     | Rubber corner seal ( Teflon claded )<br>( IS : 11855 )               | Rm   | 2050.00                   |
| 21     | Rubber corner seal ( un claded ) ( IS : 11855 )                      | Rm   | 1850.00                   |
| 22     | Stainless steel plates / flats                                       | kg   | 190.00                    |
| 23     | Welding electrode 4 mm dia x 450 mm ( radiographic low hydrogen )    | Each | 11.00                     |
| 24     | Welding electrode 4 mm dia x 450 mm ( stainless steel )              | Each | 18.00                     |
| 25     | Wire rope 6x37 constn ( IS : 2266 )                                  | kg   | 120.00                    |
| 26     | Zinc   | kg   | 120.00                    |
| 27     | Zinc rich ( zinc content : 90 % ) epoxy primer                       | ltr  | 385.00                    |



**MATERIALS FOR POWER SUPPLY WORKS  
FOR THE YEAR : 2010-11**

| <b>Sl<br/>No.</b> | <b>Description of Material</b>           | <b>Unit</b> | <b>S. Rate<br/>for<br/>2010-11</b> |
|-------------------|--|-------------|------------------------------------|
| 1                 | Electric pole with fixtures              | Each        | 3,000.00                           |
| 2                 | Flood light 500 W                        | Each        | 250.00                             |
| 3                 | Flood light set                          | Each        | 1,800.00                           |
| 4                 | Flousscent tube light 40 W               | Each        | 45.00                              |
| 5                 | Flousscent tube light set                | Each        | 300.00                             |
| 6                 | HT / LT Circuit breaker with accessories | Set         | 198,000.00                         |
| 7                 | HT / LT Line conductor                   | 1000<br>m   | 14,500.00                          |
| 8                 | PVC Armoured cable 10 sqmm and below     | Rm          | 165.00                             |
| 9                 | PVC Armoured cable 16 sqmm               | Rm          | 245.00                             |
| 10                | PVC Armoured cable 25 sqmm               | Rm          | 325.00                             |
| 11                | PVC Armoured cable 70 sqmm               | Rm          | 550.00                             |

**DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT****FOR THE YEAR: 2010-11****GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:**

1 The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be inclusive of all taxes, duties, other levies.

2 The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.

3 The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and other consumable accessories shall not be included in the capital cost.

4 In cases, where the current capital cost of machinery / equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

| SI No: | DESCRIPTION OF MACHINERY / EQUIPMENT                   | UNIT | S. Rate for 2010-11 |
|--------|--|------|---------------------|
| 1      | 2  | 3    | 4                   |
| 1      | Agitator car / Transit mixer 2 cum ( excluding tyres ) | Each | 1,700,000           |
|        | tyres and tubes 6 sets                                 |      | 63,000              |
| 2      | Air compressor 5 cmm electric                          | Each | 440,000             |
| 3      | Air compressor 7 cmm diesel                            | Each | 650,000             |
| 4      | Air compressor 7 cmm electric                          | Each | 630,000             |
| 5      | Air compressor 8.5 cmm diesel                          | Each | 750,000             |
| 6      | Air compressor 8.5 cmm electric                        | Each | 714,000             |
| 7      | Air compressor 15 cmm electric                         | Each | 900,000             |
| 8      | Angle Dozer 90 hp                                      | Each | 3,800,000           |
| 9      | Batching plant 0.5 cum with accessories                | Each | 950,000             |
| 10     | Batching plant 2 x 1.00 cum with accessories           | Each | 2,500,000           |
| 11     | Batching plant 2 x 1.50 cum with accessories           | Each | 3,200,000           |
| 12     | Bending machine  | Each | 180,000             |
| 13     | Clamp shell and hoisting ropes                         | Each | 21,000              |
| 14     | Concrete bucket 1.5 cum                                | Each | 42,000              |
| 15     | Concrete hand mixer 45/30 ltr                          | Each | 10,500              |
| 16     | Concrete mixer 300/200 ltr(diesel)                     | Each | 115,000             |
| 17     | Concrete mixer 300/200 ltr ( electric )                | Each | 105,000             |
| 18     | Concrete mixer 600/400 ltr(diesel)                     | Each | 195,000             |
| 19     | Concrete mixer 600/400 ltr ( electric )                | Each | 160,000             |
| 20     | Concrete paver 100 Sqm / hr                            | Each | 1,700,000           |
| 21     | Convey mucker ( excluding tyres )                      | Each | 2,900,000           |

| SI No: | DESCRIPTION OF MACHINERY / EQUIPMENT  | UNIT | S. Rate for 2010-11 |
|--------|---------------------------------------|------|---------------------|
| 1      | 2                                     | 3    | 4                   |
|        | tyres and tubes 6 sets                |      | 63,000              |
| 22     | Core drilling machine                 | Each | 800,000             |
| 23     | Diesel generating set 30 KVA          | Each | 340,000             |
| 24     | Diesel generating set 50 KVA          | Each | 450,000             |
| 25     | Diesel Loco 45 hp                     | Each | 1,250,000           |
| 26     | Dewatering pump 5 hp diesel           | Each | 30,000              |
| 27     | Dewatering pump 5 hp electric         | Each | 15,750              |
| 28     | Dewatering pump 10 hp diesel          | Each | 45,000              |
| 29     | Dewatering pump 10 hp electric        | Each | 24,000              |
| 30     | Dewatering pump 20 hp diesel          | Each | 130,000             |
| 31     | Dewatering pump 20 hp electric        | Each | 45,000              |
| 32     | Drifter                               | Each | 658,000             |
| 33     | Drilling jumbo ( excluding tyres )    | Each | 960,000             |
|        | tyres and tubes 6 sets                |      | 63,000              |
| 34     | Dumper 4.5 cum ( excluding tyres )    | Each | 882,000             |
|        | tyres and tubes 6 sets                |      | 63,000              |
| 35     | Geophysical Ele.resistivity meter     | Each | 288,000             |
| 36     | Grouting pump                         | Each | 73,000              |
| 37     | Guniting / sand blasting equipment    | Each | 198,000             |
| 38     | Ice plant with accessories 30 t / day | Each | 1,732,000           |
| 39     | Jack hammer                           | Each | 40,000              |
| 40     | Needle vibrator 40 mm petrol          | Each | 14,000              |
| 41     | Needle vibrator 40 mm electric        | Each | 16,000              |
| 42     | Needle vibrator 60 mm petrol          | Each | 14,700              |
| 43     | Needle vibrator 60 mm electric        | Each | 18,900              |
| 44     | Planing machine 4 m stroke            | Each | 553,000             |
| 45     | Plate shearing machine up to 12 mm    | Each | 295,000             |
| 46     | Pneumatic placer 0.5 cum              | Each | 420,000             |
| 47     | Pneumatic tamper                      | Each | 50,900              |
| 48     | Pug cutting machine                   | Each | 13,600              |

## Basic Input Data Irrigation

| <b>Sl No:</b> | <b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>         | <b>UNIT</b> | <b>S. Rate for 2010-11</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 49            | Pusher leg  | Each        | 31,500                     |
| 50            | Road roller diesel 10 t                             | Each        | 630,000                    |
| 51            | Shovel 0.50 cum 75 hp                               | Each        | 2,400,000                  |
| 52            | Shovel 0.85 cum 110 hp                              | Each        | 4,090,000                  |
| 53            | Stationery derrick crane 5 t                        | Each        | 470,000                    |
| 54            | Tipper 5 cum ( excluding tyres )                    | Each        | 1,195,000                  |
|               | tyres and tubes 6 sets                              |             | 63,000                     |
| 55            | Tipping tub 1.5 cum                                 | Each        | 115,000                    |
| 56            | Tower crane 5 tonne                                 | Each        | 5,700,000                  |
| 57            | Transformer 250 KVA                                 | Each        | 300,000                    |
| 58            | Truck 10 t ( excluding tyres )                      | Each        | 880,000                    |
|               | tyres and tubes 6 sets                              |             | 63,000                     |
| 59            | Truck mounted derrick crane 5 t ( excluding tyres ) | Each        | 1,500,000                  |
|               | tyres and tubes 6 sets                              |             | 63,000                     |
| 60            | Upright drilling machine                            | Each        | 42,000                     |
| 61            | Ventilation fan 20 hp                               | Each        | 131,000                    |
| 62            | Vibratory pad foot roller 8 t                       | Each        | 1,890,000                  |
| 63            | Wagon drill   | Each        | 470,000                    |
| 64            | Water tanker 8000 ltr (excluding tyres)             | Each        | 880,000                    |
|               | tyres and tubes 6 sets                              |             | 63,000                     |
| 65            | Welding set   | Each        | 36,500                     |
| 66            | Winch 35 hp electric                                | Each        | 268,000                    |

**ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR : 2010-11**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>           | <b>UNIT</b> | <b>S Rate<br/>for<br/>2010-11</b> |
|---------------|--|-------------|-----------------------------------|
| <b>1</b>      | <b>2</b>                                 | <b>3</b>    | <b>4</b>                          |
| 1             | Casing shoe bit                          | Each        | 7,800                             |
| 2             | Diamond core bit BX size                 | Each        | 9,400                             |
| 3             | Diamond core bit NX size                 | Each        | 14,500                            |
| 4             | Double tube core barrel                  | Each        | 10,500                            |
| 5             | Extension drill rod with coupling sleeve | Rm          | 1,550                             |
| 6             | Jack hammer drill rod 1.5 m              | Each        | 3,100                             |
| 7             | Jack hammer drill rod 2.5 m              | Each        | 5,200                             |
| 8             | Nozzle for Guniting / sand blasting gun  | Each        | 525                               |
| 9             | Paving Cylinder                          | Each        | 21,000                            |
| 10            | Rails 30R ( 30 kg / m )                  | tonne       | 34,500                            |
| 11            | Reamer shell                             | Each        | 3,600                             |
| 12            | T.C.Cross bit 50 mm dia                  | Each        | 4,700                             |
| 13            | T.C.Cross bit 75 mm dia                  | Each        | 7,800                             |
| 14            | T.C.Cross bit 100 mm dia                 | Each        | 9,900                             |
| 15            | Tyres and Tubes for truck                | Set         | 13,100                            |
| 16            | Wire rope 16 mm dia                      | Rm          | 155                               |
| 17            | Excavation of drain with Excavator       | cum         | 21                                |

**AGGREGATE CRUSHING & PROCESSING PLANT**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>                        | <b>UNIT</b> | <b>S Rate<br/>for<br/>2010-11</b> |
|---------------|---|-------------|-----------------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                          |
| 1             | Jaw crusher 900 x 500 mm ( 120 tph ) with 50 hp motor | Each        | 1,470,000                         |
| 2             | Jaw crusher 500 x 300 mm ( 60 tph ) with 30 hp motor  | Each        | 840,000                           |
| 3             | Jaw crusher 400 x 225 mm ( 10 tph ) with 25 hp motor  | Each        | 420,000                           |
| 4             | Jaw plates 900 x 500 mm ( serreted )                  | Set         | 105,000                           |
| 5             | Jaw plates 500 x 300 mm ( serreted )                  | Set         | 46,000                            |
| 6             | Jaw plates 400 x 225 mm ( serreted )                  | Set         | 31,000                            |
| 7             | Nylon Conveyor belt 3 ply 600 mm width                | Rm          | 1,575                             |
| 8             | Nylon Conveyor belt 3 ply 1000 mm width               | Rm          | 2,600                             |

**OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT FOR THE YEAR : 2010-11**

- 1 The rate provided for ' SUNDRIES' (Lump sum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.
- 2 The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
- 3 Demand charges and electric power charges shall be as per prevailing APCPDCL tariff.
- 4 Rate of interest on capital cost shall be as approved by Govt or other competent authority.

| SI No. | DESCRIPTION OF MATERIAL                         | UNIT        | S Rate for 2010-11 |
|--------|---|-------------|--------------------|
| 1      | 2   | 3           | 4                  |
| 1      | Air hose 25 mm dia                              | Rm          | 115.00             |
| 2      | Air hose 50 mm dia                              | Rm          | 220.00             |
| 3      | Demand charges ( HT-2B ) on power supply        | KVA / month | 195.00             |
| 4      | Diesel  | ltr         | 38.50              |
| 5      | Electric power ( HT-2B category ) including tax | Kwhr        | 4.30               |
| 6      | Excise duty on Gates / Hoist supplies           | %           | 0.0%               |
| 7      | Insurance charges on machinery                  | % / annum   | 1.00%              |
| 8      | Interest on capital cost                        | % / annum   | 12.00%             |
| 9      | Lubricants                                      | ltr         | 190.00             |
| 10     | Petrol  | ltr         | 53.00              |
| 11     | Rivets  | kg          | 75.00              |
| 12     | Road tax on transport vehicles                  | Rs./annum   | 13,000.00          |
| 13     | Shalimastic sealing compound                    | kg          | 65.00              |
| 14     | Shutter oil                                     | ltr         | 50.00              |
| 15     | Structural steel fabrication                    | kg          | 15.00              |
| 16     | Sundries ( Lump sum for un quantified inputs )  | LS          | 30.00              |
| 17     | Water hose ( pressure ) 20 mm dia               | Rm          | 165.00             |
| 18     | Steel wedges                                    | LS          | 11.00              |
| 19     | Elbows / Nipple / Plugs etc.,                   | LS          | 12.00              |
| 20     | Soldering materials                             | LS          | 11.00              |
| 21     | Steam circulation arrangement                   | LS          | 11.00              |

## Basic Input Data Irrigation

| SI No. | DESCRIPTION OF MATERIAL                                   | UNIT | S Rate for 2010-11 |
|--------|---|------|--------------------|
| 1      | 2   | 3    | 4                  |
| 22     | Fuel charges ( gas for heating )                          | LS   | 11.00              |
| 23     | Vulcanizing materials                                     | LS   | 11.00              |
| 24     | Other accessories / controls / junctions                  | LS   | 11.00              |
| 25     | Miscellaneous fittings / switches etc                     | LS   | 11.00              |
| 26     | Anchors / supports for cables / lights                    | LS   | 11.00              |
| 27     | Civil works for foundations / pedestals / duct etc        | LS   | 11.00              |
| 28     | Gas cutting set ( 2 Noø 15 m hose and nozzle unit )       | EACH | 10,000.00          |
| 29     | Grease  | Kg   | 145.00             |
| 30     | Welding holder set ( cable / holder / gloves / mask etc ) | EACH | 4,600.00           |
| 31     | Use rate of ropes   | LS   | 110.00             |

**MATERIALS FOR GATES AND HOISTS**  
**FOR THE YEAR : 2010-11**

| SI No. | DESCRIPTION OF MATERIAL                     | UNIT | S Rate for 2010-11 |
|--------|---|------|--------------------|
| 1      | Worm reducers                               | EACH | 157,500            |
| 2      | Electric motor 20 hp(Double Shaft)          | EACH | 84,000             |
| 3      | Electric motor 17.5 hp(Double Shaft)        | EACH | 58,000             |
| 4      | Electric motor 12.5 hp(Double Shaft)        | EACH | 46,500             |
| 5      | Electric motor 5 hp(Double Shaft)           | EACH | 25,500             |
| 6      | Electric motor 3 hp (Double Shaft)          | EACH | 17,500             |
| 7      | Electric motor 2 hp (Double Shaft)          | EACH | 9,000              |
| 8      | Floating shaft 300 mm dia                   | Kg   | 135                |
| 9      | Manual operating system                     | EACH | 21,000             |
| 10     | Gate position indicator                     | EACH | 120,000            |
| 11     | Ele-magnetic brake                          | EACH | 23,000             |
| 12     | Electric cable / switch / control panel etc | LS   | 27,500             |
| 13     | Wire rope sockets                           | EACH | 2,750              |

**Other "Over Heads" to be added in the Basic Data wherever applicable for Irrigation  
Work Items for the year 2010-11**

| Sl.No | Description  | %     | Category of works     |
|-------|--|-------|-----------------------|
| 1     | Add for Contractors' Overheads and profit including Labour importation | 14%   | General               |
| 2     | VAT @  | 4%    | General               |
| 3     | Add for blasting studies & monitoring vibrations etc @                 | 0.50% | Canals & Allied Works |
| 4     | Add for shifting & re-erection of BP @                                 | 2%    | Canals & Allied Works |
| 5     | Add for LH / RH shifting & erection of Paver @                         | 0.50% | Canals & Allied Works |
| 6     | Add for ledge cutting / erection of tracks etc @                       | 1%    | Canals & Allied Works |
| 7     | Apportioned hire charges of machinery @ for lining slab                | 90%   | Canals & Allied Works |
| 8     | Apportioned cost of labour @ for lining slabs                          | 90%   | Canals & Allied Works |
| 9     | Apportioned hire charges of machinery @ for lug slabs                  | 10%   | Canals & Allied Works |
| 10    | Apportioned cost of labour @ for lug slabs                             | 10%   | Canals & Allied Works |
| 11    | Add for repairs/ replacements/ catwalks etc., @                        | 15%   | Dam & Allied Works    |
| 12    | Add for binding wire/ temporary supports etc., @                       | 5%    | Dam & Allied Works    |
| 13    | Add for scaffolding @  | 2.5%  | Tunnel & Allied Works |
| 14    | Add for labour for scaffolding @                                       | 2.5%  | Tunnel & Allied Works |
| 15    | Add for scaffolding materials @  | 2.50% | Tunnel & Allied Works |
| 16    | Deduct salvage value on machinery @                                    | 10%   | Hire Charges          |
| 17    | Add for excise duty on 75% cost excluding cost of materials @          | 0.0%  | Gates & Allied Works  |
| 18    | Add for transportation up to work site @                               | 3%    | Gates & Allied Works  |
| 19    | Add for Air and Water line @   | 1%    | Tunnel & Allied Works |
| 20    | Add for Ventilation @  | 4.50% | Tunnel & Allied Works |
| 21    | Add for Lighting @   | 1.60% | Tunnel & Allied Works |
| 22    | Add for Ele sub-station / Demand charges @                             | 2.5%  | Tunnel & Allied Works |
| 23    | Add for conveyor system @  | 3%    | Dam & Allied Works    |
| 24    | Add for trestle bridge for tower crane truck @                         | 4%    | Dam & Allied Works    |



**Materials other than covered under irrigation**  
**For the year 2010-11**  
**GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

- 1 Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
- 2 The rates for materials is inclusive of all taxes, duties and other local levies.
- 3 The rates for materials is inclusive of Seigniorage charges wherever applicable.
- 4 The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.

| Sl. No. | Description  | Unit | S. Rate for 2010-11                                    |
|---------|--|------|--|
| 1       | 2  | 3    | 4  |
| M-002   | Quarried stone 150 - 200 mm size for Hand Broken (Excluding lead charges)  | cum  | 130  |
| M-003   | Boulder with minimum size of 300 mm for Pitching   | cum  | 145  |
| M-004   | Coarse Sand for filling(Including seigniorage charges)   | cum  | 110  |
| M-005   | Coarse sand for Mortar (Including Seigniorage Charges)   | cum  | 130  |
| M-006   | Fine sand (including seigniorage charges)  | cum  | Rate as per item no.28 , material rates of Irrigation  |
| M-007   | Moorum (including seigniorage charges)   | cum  | Rate as per item no.56 , material rates of Irrigation  |
| M-008   | Gravel/Quarry spall  | Cum  | 72.5   |
| M-009   | Granular Material or hard murrum for GSB works   | Cum  | Deleted  |
| M-010   | Granular Material or hard murrum for GSB works   | Cum  | Rate as per item no.56 of material rates of Irrigation |
| M-011   | Fly ash conforming to IS: 3812 ( Part II & I)  | Cum  | 42   |
|         | For item No.M-012 to M-029 the note shall be as follows<br>1) The rates mentioned are inclusive of Seigniorage charges of Rs.50/ cum, blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted.<br>2)If the material is obtained by hand broken from surface boulders/canal spoil ,the blasting and crushing charges shall be deducted.<br>3)The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20) |      |  |

## Other Dept's Basic Data

| Sl. No. | Description  | Unit | S. Rate<br>for<br>2010-11 |
|---------|--|------|---------------------------|
| 1       | 2  | 3    | 4                         |
| M-012   | Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)   | Cum  | 305                       |
| M-013   | Close graded Granular sub-base Material 53 mm to 9.5 mm  | cum  | 605                       |
| M-014   | Close graded Granular sub-base Material 37.5 mm to 9.5 mm  | cum  | 625                       |
| M-015   | Close graded Granular sub-base Material 26.5 mm to 9.5 mm  | cum  | 645                       |
| M-016   | Close graded Granular sub-base Material 9.5 mm to 4.75 mm  | cum  | 545                       |
| M-017   | Close graded Granular sub-base Material 9.5 mm to 2.36 mm  | cum  | 535                       |
| M-018   | Close graded Granular sub-base Material 4.75mm to 2.36 mm  | cum  | 475                       |
| M-019   | Close graded Granular sub-base Material 4.75mm to 75 micron mm   | cum  | 455                       |
| M-020   | Close graded Granular sub-base Material 2.36 mm  | cum  | 455                       |
| M-021   | Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.  | cum  | 255                       |
| M-022   | Coarse graded Granular sub-base Material 2.36 mm & below   | cum  | 415                       |
| M-023   | Coarse graded Granular sub-base Material 4.75mm to 75 micron mm  | cum  | 445                       |
| M-024   | Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm  | cum  | 445                       |
| M-025   | Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm   | cum  | 520                       |
| M-026   | Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm  | cum  | 565                       |
| M-027   | Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm   | cum  | 615                       |
| M-028   | Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm   | cum  | 625                       |
| M-029   | Coarse graded Granular sub-base Material 53 mm to 26.5mm   | cum  | 765                       |
|         | For item No.M-030 & M-055 the note shall be as follows<br>1) The rates mentioned are inclusive of Seigniorage charges of Rs.50/ cum, blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted.<br>2) If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing |      |                           |

| Sl. No. | Description   | Unit | S. Rate<br>for<br>2010-11 |
|---------|---|------|---------------------------|
| 1       | 2   | 3    | 4                         |
|         | charges shall be deducted.<br>3)The material shall be HB Stone of Granite,<br>Dolomite, Dolerite and Trap.(Quartzite and Basalt<br>with aggregate impact of less than 20) |      |                           |
| M-030   | Aggregates below 5.6 mm   | cum  | 505                       |
| M-031   | Aggregates 22.4 mm to 2.36 mm   | cum  | 805                       |
| M-032   | Aggregates 22.4 mm to 5.6 mm  | cum  | 905                       |
| M-033   | Aggregates 45 mm to 2.8 mm  | cum  | 630                       |
| M-034   | Aggregates 45 mm to 22.4 mm   | cum  | 975                       |
| M-035   | Aggregates 53 mm to 2.8 mm  | cum  | 805                       |
| M-036   | Aggregates 53 mm to 22.4 mm   | cum  | 765                       |
| M-037   | Aggregates 63 mm to 2.8 mm  | cum  | 625                       |
| M-038   | Aggregates 63 mm to 45 mm   | cum  | 595                       |
| M-039   | Aggregates 90 mm to 45 mm   | cum  | 560                       |
| M-040   | Aggregates 10 mm to 5 mm  | cum  | 750                       |
| M-041   | Aggregates 11.2 mm to 0.09 mm   | cum  | 630                       |
| M-042   | Aggregates 13.2 mm to 0.09 mm   | cum  | 705                       |
| M-043   | Aggregates 13.2 mm to 5.6 mm  | cum  | 805                       |
| M-044   | Aggregates 13.2 mm to 10 mm   | cum  | 895                       |
| M-045   | Aggregates 20 mm to 10 mm   | cum  | 1025                      |
| M-046   | Aggregates 25 mm to 10 mm   | cum  | 985                       |
| M-047   | Aggregates 19 mm to 6 mm  | cum  | 905                       |
| M-048   | Aggregates 37.5 mm to 19 mm   | cum  | 960                       |
| M-049   | Aggregates 37.5 mm to 25 mm   | cum  | 945                       |
| M-050   | Aggregates 6 mm nominal size  | cum  | 655                       |
| M-051   | Aggregates 10 mm nominal size   | cum  | 820                       |
| M-052   | Aggregates 13.2/12.5 mm nominal size  | cum  | 980                       |
| M-053   | Aggregates 20 mm nominal size   | cum  | 1175                      |
| M-054   | Aggregates 25 mm nominal size   | cum  | 1155                      |
| M-055   | Aggregates 40 mm nominal size   | cum  | 745                       |

## Other Dept's Basic Data

| Sl. No. | Description  | Unit            | S. Rate for 2010-11                                    |
|---------|--|-----------------|--|
| 1       | 2  | 3               | 4  |
| M-056   | AC pipe 100 mm dia   | metre           | Rate as per PH item                                    |
| M-057   | Acrylic polymer bonding coat   | litre           | 370  |
| M-058   | Aluminum Paint   | litre           | 270  |
| M-059   | Aluminum alloy plate 2mm Thick   | sqm             | 275  |
| M-060   | Aluminum alloy/Galvanised steel  | tonne           | 50000  |
| M-061   | Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable   | sqm             | 740  |
| M-062   | Aluminum studs 100 x 100 mm fitted with lens reflectors  | Noø             | As per local market rate                               |
| M-063   | Barbed wire  | kg              | 60   |
| M-064   | Bearing (Cost of parts)  | Noø             | 450  |
| M-065   | Bearing (Cast steel rocker bearing assembly of 250 tonne )   | Noø             | 630  |
| M-066   | Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanisation,)   | Cm <sup>3</sup> | 0.5  |
| M-067   | Bearing (Forged steel roller bearing of 250 tonne)   | Noø             | As per Market Competitive rates.                       |
| M-068   | Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components | Noø             |  |
| M-069   | Bearing (PTFE sliding plate bearing assembly of 80 tonnes )  | Noø             |  |
| M-070   | Bearing (Supply of sliding plate bearing of 80 tonne)  | Noø             |  |
| M-071   | Bentonite  | kg              | 5.5  |
| M-072   | Binding wire   | kg              | Rate as per item no.3 , material rates of Irrigation   |
| M-073   | Bitumen ( Cationic Emulsion )  | tonne           | As per rates fixed by R&B Dept based on refinery rates |

| Sl. No. | Description  | Unit    | S. Rate for 2010-11                                    |
|---------|--|---------|--|
| 1       | 2  | 3       | 4  |
| M-074   | Bitumen (60-70 grade)(Excluding taxes)   | tonne   | As per rates fixed by R&B Dept based on refinery rates |
| M-075   | Bitumen (80-100 grade ) (Excluding taxes)  | tonne   |  |
| M-076   | Bitumen (Cutback )   | tonne   |  |
| M-077   | Bitumen (emulsion)(Excluding taxes)  | tonne   |  |
| M-078   | Bitumen (modified graded)  | tonne   |  |
| M-079   | Brick  | each    | As per Building SSR                                    |
| M-080   | C.I. shoes for the pile  | kg      | 42   |
| M-081   | Cement   | tonne   | Rate as per item no.5 , material rates of Irrigation   |
| M-082   | Cold twisted bars (HYSD/TMT Bars)  | tonne   | Rate as per item no.62 , material rates of Irrigation  |
| M-083   | Collar for joints 300 mm dia   | Noø     | 125  |
| M-084   | Compressible Fibre Board(20mm thick)   | sqm     | 420  |
| M-085   | Connectors/ Staples  | each    | 63   |
| M-086   | Copper Plate(12m long x 250mmwide)   | kg      | 390  |
| M-087   | Corrosion resistant Structural steel   | tonne   | 44000  |
| M-088   | Corrugated sheet, 3 mm thick, "Tie" beam section railing   | kg      | 150  |
| M-089   | Credit for excavated rock found suitable for use   | cum     | 110  |
| M-090   | Curing compound  | liter   | Rate as per item no.15 , material rates of Irrigation  |
| M-091   | Delineators from ISI certified firm as per the standard drawing given in IRC - 79  | each    | As per local competitive quotations                    |
| M-092   | Earth Cost or compensation for earth taken from private land   | cum     | 25   |
| M-093   | Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II), | metre   | As per local competitive quotations                    |
| M-094   | Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each  | 100 noø | 1050   |
| M-095   | Epoxy compound with accessories for preparing epoxy mortar   | kg      | 275  |
| M-096   | Epoxy mortar   | kg      | 85   |

## Other Dept's Basic Data

| Sl. No. | Description  | Unit  | S. Rate for 2010-11  |
|---------|--|-------|--|
| 1       | 2  | 3     | 4  |
| M-097   | Epoxy primer   | kg    | 480  |
| M-098   | Epoxy resin-hardner mix for prime coat   | kg    | 500  |
| M-099   | Flag of red color cloth 600 x 600 mm   | each  | 21   |
| M-100   | Flowering Plants   | each  | 27   |
| M-101   | Galvanised MS flat clamp   | No.   | 160  |
| M-102   | Galvanised steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size. | sqm   | 135  |
| M-103   | Galvanised structural steel plate 200 mm wide, 6 mm thick, 24 m long   | kg    | 735  |
| M-104   | Gelatin 80%  | kg    | 525  |
| M-105   | Geo grids  | sqm   | As per local competitive quotations                              |
| M-106   | Geo membrane   | sqm   | Rate covered from sl.no.52 to 54 of material items of Irrigation |
| M-107   | Geo nets   | sqm   | As per local competitive quotations                              |
| M-108   | Geo textile  | sqm   | Rate covered from sl.no.29 to 31 of material items of Irrigation |
| M-109   | Geo textile filter fabric  | sqm   | As per local competitive quotations                              |
| M-110   | GI bolt 10 mm Dia  | No.   | 18   |
| M-111   | Grouting pump with agitator  | hour  | Rate covered in hire charges of machinery of Irrigation items    |
| M-112   | Grass (Doob)   | kg    | 3.30   |
| M-113   | Grass (Fine)   | kg    | 4.5  |
| M-114   | HDPE pipes 75mm dia  | metre | Rate as per PH items   |
| M-115   | HDPE pipes 90mm dia  | metre |  |
| M-116   | Hedge plants   | each  | Rate as per local competitive quotations                         |
| M-117   | Helical pipes 600mm diameter   | metre |  |
| M-118   | Hot applied thermoplastic compound   | litre |  |
| M-119   | HTS strand   | tonne |  |
| M-120   | Joint Sealant Compound   | kg    |  |

| Sl. No. | Description   | Unit  | S. Rate for 2010-11                      |
|---------|---|-------|--|
| 1       | 2   | 3     | 4  |
| M-121   | Jute netting, open weave, 2.5 cm square opening for seeding and Mulching  | sqm   | 70                                       |
| M-122   | LDO for steam curing  | litre | 50                                       |
| M-123   | M.S. Clamps   | kg    | Deleted                                  |
| M-124   | M.S. Clamps   | kg    | Rate as per local competitive quotations |
| M-125   | M.S. shoes @ 35 Kg per pile of 15 m   | kg    | Rate as per local competitive quotations |
| M-126   | Mild Steel bars   | tonne | 33000                                    |
| M-127   | Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative                          | metre | Rate as per local competitive quotations |
| M-128   | Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative | metre | Rate as per local competitive quotations |
| M-129   | Nipples 12mm  | Noø   | 13                                       |
| M-130   | Nuts and bolts  | kg    | 65                                       |
| M-131   | Paint   | litre | As per building SSR                      |
| M-132   | Pavement Marking Paint  | litre | Rate as per local competitive quotations |
| M-133   | Paving Fabric   | Sqm   |  |
| M-134   | Perforated geo synthetic pipe 150 mm dia  | metre |  |
| M-135   | Perforated pipe of cement concrete, internal dia 100 mm   | metre |  |
| M-136   | Pesticide   | kg    | Rate as per local competitive quotations |
| M-137   | R.C.C Pipes 200 mm dia, 2.5 m long for drainage   | metre | Rate as per PH item                      |

| Sl. No. | Description  | Unit  | S. Rate<br>for<br>2010-11                   |
|---------|--|-------|---|
| 1       | 2  | 3     | 4   |
| M-138   | Plastic sheath, 1.25 mm thick for dowel bars   | Sqm   | Rate as per local<br>competitive quotations |
| M-139   | Plastic tubes 50 cm dia, 1.2 m high  | Noø   |   |
| M-140   | Polymer braids   | metre |   |
| M-141   | Pre moulded Joint filler, 25 mm thick for expansion joint.   | Sqm   |   |
| M-142   | Pre-coated stone chips of 13.2 mm nominal size   | cum   |   |
| M-143   | Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanised in a single operation for the full length of a joint to ensure water tightness. | metre | Rate as per local<br>competitive quotations |
| M-144   | Pre-moulded asphalt filler board   | Sqm   |   |
| M-145   | Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days   | kg    | Rate as per local<br>competitive quotations |
| M-146   | Primer   | kg    | As per building SSR                         |
| M-147   | Quick setting compound   | kg    | As per local market<br>rate                 |
| M-148   | Random Rubble Stone  | cum   | 205   |
| M-149   | RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia   | metre | Rate as per PH items                        |
| M-150   | RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia   | metre |   |
| M-151   | RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia  | metre |   |
| M-152   | Reflectorising glass beads   | kg    | Rate as per local<br>competitive quotations |
| M-153   | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)   | metre |   |
| M-154   | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanised carbon steel strips)  | metre |   |
| M-155   | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)   | metre |   |
| M-156   | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)  | metre |   |
| M-157   | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. Aluminum strips)  | metre |   |
| M-158   | Rivets   | each  | 3.5   |
| M-159   | Sand bags (Cost of sand and Empty cement bag)  | Noø   | 14  |
| M-160   | Sapling 2 m high 25 mm dia   | each  | Rate as per local<br>competitive quotations |



| Sl. No. | Description  | Unit  | S. Rate for 2010-11  |
|---------|--|-------|--|
| 1       | 2  | 3     | 4  |
| M-161   | Scrap tyres of size 900 x 20   | Noø   | 55   |
| M-162   | Seeds(Grass)   | kg    | 13   |
| M-163   | Selected earth   | cum   | 65   |
| M-164   | Separation Membrane of impermeable plastic sheeting 125 micron thick   | sqm   | Rate as per local competitive quotations                         |
| M-165   | Sheathing duct   | metre |  |
| M-166   | Shrubs   | each  | 11   |
| M-167   | Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing   | cum   | Rate as per local competitive quotations                         |
| M-168   | Sodium vapour lamp   | each  | As per building SSR  |
| M-169   | Square Rubble Coursed Stone  | cum   | 1680   |
| M-170   | Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level | each  | Rate to be obtained from Electricity/ Municipal Departments      |
| M-171   | Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level | each  |  |
| M-172   | Steel drum 300 mm dia 1.2 m high/empty bitumen drum  | Noø   | As per local competitive market rate                             |
| M-173   | Steel helmet and cushion block on top of pile head during driving.   | kg    |  |
| M-174   | Steel pipe 25 mm external dia as per IS:1239   | metre | 210  |
| M-175   | Steel pipe 50 mm external dia as per IS:1239   | metre | 420  |
| M-176   | Steel wire rope 20 mm  | kg    | 135  |
| M-177   | Steel wire rope 40 mm  | kg    | 155  |
| M-178   | Strip seal expansion join  | metre | Rate as per local competitive quotations                         |
| M-179   | Structural Steel(HYSD/TMT bars)  | tonne | 34000  |
| M-180   | Super plasticizer admixture IS marked as per 9103-1999   | kg    | Rate as per item no.70 , material rates of Irrigation            |
| M-181   | Synthetic Geo grids as per clause 3102.8 and approved design and specifications.                                       | sqm   | Rate as per local competitive quotations                         |
| M-182   | Through and bond stone   | each  | Rate covered from sl.no.75 to 77 of material items of Irrigation |

## Other Dept's Basic Data

| Sl. No.              | Description  | Unit                           | S. Rate<br>for<br>2010-11                   |
|----------------------|--|--------------------------------|---|
| 1                    | 2  | 3                              | 4   |
| M-183                | Tie rods 20mm diameter   | Noø                            | 35  |
| M-184                | Tiles size 300 x 300 mm and 25 mm thick  | each                           | As per Building SSR                         |
| M-185                | Timber   | cum                            |   |
| M-186                | Traffic cones with 150 mm reflective sleeve  | Noø                            | Rate as per local<br>competitive quotations |
| M-187                | Tube anchorage set complete with bearing plate,<br>permanent wedges etc                      | Noø                            |   |
| M-188                | Un slaked lime   | tonne                          | 1900  |
| M-189                | Water  | KiloLitre                      | 70  |
| M-190                | Water based cement paint   | litre                          | As per building SSR                         |
| M-191                | Welded steel wire fabric   | kg                             | 110   |
| M-192                | Wire mesh 50mm x 50mm size of 3mm wire   | kg                             | 185   |
| M-193                | Wooden ballies 2" Dia for bracing  | each                           | As per Building SSR                         |
| M-194                | Wooden ballies 8" Dia and 9 m long   | each                           |   |
| M-195                | Wooden packing   | cum                            | 950   |
| M-196                | Wooden staff for fastening of flag 25 mm dia, one m<br>long                                  | each                           | 55  |
| Item 8.3             | Printing new letter and figures of any shade (ii)<br>English Roman                           | per cm<br>height per<br>letter | 1.10  |
| Item 8.8             | Painting Two Coats on New Concrete Surfaces  | sqm                            | As per Building SSR                         |
| Item 8.9             | Painting angle iron post two coats   | sqm                            |   |
| <b>New<br/>Items</b> |  |                                |   |
| 1                    | Benching old embankment slopes 0.45 X 0.45 M   | RM                             | 2.40  |
| 2                    | Filling sand bags and laying in position at work site,<br>complete including CP & OH charges | per bag                        | 17.10                                       |
| 3                    | Rough stone for revetment 225mm thick (including<br>seigniorage charges)                     | Cum                            | 121.00                                      |

# **BUILDING ITEMS**

(The Schedule of Rates will be finalised by the Committee constituted vide  
G.O.Rt.No.471 TR&B(R1) Dept Dt.20-4-2007)

# **PUBLIC HEALTH ITEMS**

**PUBLIC HEALTH ITEMS**

| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> | <b>S of Rate for 2010-2011</b>   |
|----------------|---|-------------|--|
| <b>1</b>       | <b>2</b>  | <b>3</b>    | <b>4</b>   |
| 1              | RATES OF LABOUR (SKILLED WORKMEN)   |             |  |
|                | 1. Caulker  | Per Day     | As per Labour rates of SSR   |
|                | 2. Plumber 1st Class  | Per Day     |  |
|                | 3. Plumber 2nd Class  | Per Day     |  |
|                | 4. Sewer Cleaner  | Per Day     |  |
|                | 5. Well Sinker  | Per Day     |  |
|                | 6. Pipe line Fitter 1st Class   | Per Day     |  |
|                | 7. Pipe line Fitter 2nd Class   | Per Day     |  |
|                | 8. Pump Driver  | Per Day     |  |
|                | 9. Bore Mechanic  | Per Day     |  |
|                | 10. Light Vehicle Driver  | Per Day     |  |
|                | Note: The rate at relevant item in common SSR is applicable for occasional employment.  |             |  |
| 2              | RATES FOR EARTH WORK :  |             |  |
| a.             | Earth work excavation in all soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.   |             | To follow the relevant items of Irrigation work items as per AP. Standard data |
| b.             | Earth work excavation in all soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.   |             |  |
| c.             | Earth work excavation in all soils for open trenches, for valve pits, inspection chambers, etc.   |             |  |
| 3. a.          | Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is more than 1.5 times the width, in places where there is no habitation. |             | To follow the relevant items of Irrigation work items as per AP. Standard data |
| b.             | Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is less than 1.5 times the width, in places where there is no habitation. |             |  |
| c.             | Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is 1.5 times or more than the width.   |             |  |
| d.             | Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is less than 1.5 times the width.  |             |  |
| e.             | Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.   |             |  |
| f.             | For controlled blasting at restricted places  |             |  |

| Sl. No. | Description   | Unit      | S of Rate for 2010-2011            |
|---------|---|-----------|------------------------------------|
| 1       | 2   | 3         | 4                                  |
|         | <b>NOTE :-</b> Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack measurements.               |           |                                    |
| 4       | Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia up to 4 m in length including stacking. |           |                                    |
| a.      | C.I. Pipes/D.I. Pipes and fittings  | Per Tonne | To follow as per AP. Standard data |
| b.      | A.C. Pipes & Specials   | Per Tonne |                                    |
| c.      | Stoneware pipes & Specials  | Per Tonne |                                    |
| d.      | P.V.C. Pipes and fittings   | Per Tonne |                                    |
| 5       | Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia up to 4 m in length including stacking.           |           |                                    |
| a.      | C.I. Pipes/D.I. Pipes and fittings  | Per Tonne | To follow as per AP. Standard data |
| b.      | A.C. Pipes & Specials   | Per Tonne |                                    |
| c.      | Stoneware pipes & Specials  | Per Tonne |                                    |
| 6       | Loading or unloading materials such as C.I. Pipes, DI pipes, PVC pipes, AC pipes less than 300 mm dia, above 4 m in length including stacking.  |           |                                    |
| a.      | C.I. Pipes/D.I. Pipes and fittings  | Per Tonne | To follow as per AP. Standard data |
| b.      | A.C. Pipes & Specials   | Per Tonne |                                    |
| c.      | P.V.C. Pipes and fittings   | Per Tonne |                                    |
| 7       | Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.   |           |                                    |
| a.      | C.I. Pipes/D.I. Pipes and fittings  | Per Tonne | To follow as per AP. Standard data |
| b.      | A.C. Pipes & Specials   | Per Tonne |                                    |
|         | <b>Note:-</b> For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hammalae charges if prevailing.      |           |                                    |

| Sl. No. | Description  | Unit       | S of Rate for 2010-2011            |
|---------|--|------------|------------------------------------|
| 1       | 2  | 3          | 4                                  |
| 8. a.   | Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)          |            |                                    |
|         | DIAMETER OF PIPE/Fittings in mm :  |            | To follow as per AP. Standard data |
|         | 80mm to 1000mm dia   | Per Metre  |                                    |
| 8. b.   | Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994) |            |                                    |
|         | DIAMETER OF PIPE/Fittings in mm :  |            | To follow as per AP. Standard data |
|         | 80mm to 750mm dia  |            |                                    |
|         | 800  | Per Metre  | 361.00                             |
|         | 900  | Per Metre  | 469.00                             |
|         | 1000   | Per Metre  | 610.00                             |
| 9. a.   | Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, hemp yarn and sundries such as cost of fuel for melting lead, filling with water with lead up to 500m and testing to required pressure complete. (Reference to specifications. BIS No.3114/94/12288:1997)             |            |                                    |
|         | DIAMETER OF PIPE/Fittings in mm :  |            | To follow as per AP. Standard data |
|         | 80mm to 800mm  |            |                                    |
|         | 900  | Each Joint | 10384.00                           |
|         | 1000   | Each Joint | 11600.00                           |
| 9. b.   | Jointing C.I., D.I. pipes and fittings with rubber gasket (push-on-joint), excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete (Reference to specifications IS 3114/1994/12888/1997)    |            |                                    |
|         | DIAMETER OF PIPE/Fittings in mm :  |            | To follow as per AP. Standard data |
|         | 80mm to 1000mm dia   | Each Joint |                                    |
| 10      | Jointing CI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)   |            |                                    |

| Sl. No. | Description   | Unit       | S of Rate for 2010-2011            |
|---------|---|------------|------------------------------------|
| 1       | 2   | 3          | 4                                  |
|         | DIAMETER OF PIPE/Fittings/ valve in mm :  |            | To follow as per AP. Standard data |
|         | 80mm to 750mm dia   | Each Joint |                                    |
|         | 800   | Each Joint | 4312.00                            |
|         | 900   | Each Joint | 5071.00                            |
|         | 1000  | Each Joint | 5841.00                            |
| 11a     | Lowering the RCC plain ended pipes carefully into the trench laying them true to alignment and gradient, jointing RCC pipes with cement joints including curing, the cost of jointing materials i.e., Cement Mortar (1:1.5), hemp yarn etc., and testing including filling with water with a water lead up to 500 metres excluding cost of rubber rings as per BIS No.783/85. |            |                                    |
|         | per every 25 mm dia.  | Per Metre  | 12.00                              |
| 11b     | Lowering the RCC S/S pipes carefully into the trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead up to 500 meters <u>including cost of rubber rings</u> as per BIS No. 783/1985   |            |                                    |
|         | per every 25 mm dia.  | Per Metre  | To follow as per AP. Standard data |
|         | 80mm to 600mm   |            |                                    |
|         | 700   |            | 199.00                             |
|         | 800   |            | 239.00                             |
|         | 900   |            | 286.00                             |
|         | 1000  |            | 343.00                             |
| 12      | Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85                           |            |                                    |
| a       | G.I. PIPES :  |            |                                    |
|         | DIA in mm   |            | To follow as per AP. Standard data |
|         | 15mm to 150mm   | Per Metre  |                                    |
| b       | Laying, jointing of PVC/HDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes.  |            |                                    |
|         | DIA in mm   |            |                                    |
|         | 50  | Per Metre  | 19.00                              |
|         | 40  | Per Metre  | 19.00                              |



| Sl. No. | Description   | Unit      | S of Rate for 2010-2011            |
|---------|---|-----------|------------------------------------|
| 1       | 2   | 3         | 4                                  |
|         | 32  | Per Metre | 19.00                              |
|         | 25  | Per Metre | 17.00                              |
|         | 20  | Per Metre | 16.00                              |
|         | <b>NOTE :-</b> (i) The above rates are applicable for the works in District only.   |           |                                    |
|         | (ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.   |           |                                    |
| 13      | Lowering and laying in ready made trench true to alignment and gradient, jointing, and testing of <u>Stone ware pipes</u> including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)   |           |                                    |
|         | DIA of Pipes in mm_.  |           | To follow as per AP. Standard data |
|         | 100mm to 450mm  | Per Metre |                                    |
| 14      | Lowering, laying, jointing and testing to hydraulic test pressure including cost of water with minimum water lead of 500m for <u>UPVC pressure pipes</u> in ready made trenches true to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing materials as per BIS No. 7634 - Part III - 1975 |           |                                    |
|         | DIA of Pipes in mm .  |           | To follow as per AP. Standard data |
|         | 63mm to 315mm   | Per Metre |                                    |
| 15      | Laying and jointing of HDPE pipes by butt fusion welding as per IS:7634 ó part-II/1975 as amended from time to time to the alignment and gradient and testing the pipeline to the required pressure.  |           |                                    |
|         | Outer Dia of pipes in MM  |           |                                    |
|         | 63  | Per Metre | 24.00                              |
|         | 75  | Per Metre | 26.00                              |
|         | 90  | Per Metre | 30.00                              |
|         | 110   | Per Metre | 34.00                              |
|         | 125   | Per Metre | 41.00                              |
|         | 140   | Per Metre | 44.00                              |
|         | 160   | Per Metre | 47.00                              |
|         | 180   | Per Metre | 52.00                              |
|         | 200   | Per Metre | 56.00                              |
|         | 225   | Per Metre | 62.00                              |
|         | 250   | Per Metre | 66.00                              |
|         | 280   | Per Metre | 73.00                              |
|         | 315   | Per Metre | 144.00                             |
|         | 355   | Per Metre | 160.00                             |

| Sl. No. | Description   | Unit      | S of Rate for 2010-2011            |
|---------|---|-----------|------------------------------------|
| 1       | 2   | 3         | 4                                  |
|         | 400   | Per Metre | 178.00                             |
|         | 450   | Per Metre | 198.00                             |
|         | <b>NOTE:-</b> For item 9 to 16 the element of testing charges is to be considered as 20% of the combined rate for laying, jointing and testing. This 20% shall be released only after satisfactory testing of the pipe line to the required pressure. |           |                                    |
| 16      | Lowering, keeping in position and fixing C.I. sluice valves (with cap / with hand wheel & Reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces  |           |                                    |
|         | Dia of Valve in mm.   |           | To follow as per AP. Standard data |
|         | 80mm to 450mm   | Each      |                                    |
| 17      | Labour charges for fixing <u>Air valves</u> including boring the mains and threading the bore fixing nipple etc., complete.   |           |                                    |
|         | Dia of Air valve in mm.   |           |                                    |
|         | 25  | Each      | To follow as per AP. Standard data |
|         | 40  | Each      |                                    |
|         | 50  | Each      | 108.00                             |
|         | 65  | Each      | 114.00                             |
|         | 80  | Each      | 125.00                             |
|         | 100   | Each      | 147.00                             |
|         | 125   | Each      | 229.00                             |
|         | 150   | Each      | 250.00                             |
| 18      | Labour charges for fixing Kinetic Air Valves with isolating Sluice valves, Double Air valves/ Air Cushion valve excluding cost of jointing materials such as bolts, nuts and rubber insertions etc., complete.  |           |                                    |
|         | Dia of Air valve in mm.   |           |                                    |
|         | 25  | Each      | 88.00                              |
|         | 40  | Each      | 101.00                             |
|         | 50(Double Air valves)   | Each      | 107.00                             |
|         | 65  | Each      | 114.00                             |
|         | 80  | Each      | 125.00                             |
|         | 100   | Each      | 146.00                             |
|         | 125   | Each      | 228.00                             |
|         | 150   | Each      | 249.00                             |
| 19      | Providing and fixing spindle fire hydrant with 65 mm outlet. Complete with bolts, nuts, and rubber insertion etc. complete but excluding cost of Materials.   |           |                                    |
|         | 65 mm   | Each      | To follow as per AP. Standard data |

| Sl. No. | Description  | Unit      | S of Rate for 2010-2011            |
|---------|--|-----------|------------------------------------|
| 1       | 2  | 3         | 4                                  |
|         | 80 mm  | Each      | 125.00                             |
| 20      | Uprooting C.I./ DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.          |           |                                    |
|         | 80mm to 600mm  | Per Metre | To follow as per AP. Standard data |
| 21      | Uprooting of RCC pipes including breaking the collars, loosening the joint, separating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling. | Per Metre |                                    |
|         | 100mm to 300mm   |           | To follow as per AP. Standard data |
| 22      | Removing old G.I. pipes and specials / fittings and cleaning, scraping the pipes, hoisting and keeping with in 50m lead but excluding earth work excavation of trenches and refilling.         |           |                                    |
|         | Dia of Pipes in mm   |           |                                    |
|         | 15mm to 50mm   | Per Metre | To follow as per AP. Standard data |
| 23      | Cutting C.I./ DI Pipes without water in mains. Dia of pipes in mm.   |           |                                    |
|         | Dia of Pipes in mm   |           |                                    |
|         | 80mm to 600mm  | Each cut  | To follow as per AP. Standard data |
|         | 680  | Each cut  | 302.00                             |
| 24      | Cutting A.C. Pipes without water in mains. Dia of pipes in mm.   |           |                                    |
|         | Dia of Pipes in mm   |           |                                    |
|         | 80   | Each cut  | 20.00                              |
|         | 100  | Each cut  | 20.00                              |
|         | 125  | Each cut  | 20.00                              |
|         | 150  | Each cut  | 20.00                              |
|         | 200  | Each cut  | 21.00                              |
|         | 250  | Each cut  | 33.00                              |
|         | 300  | Each cut  | 33.00                              |
|         | 350  | Each cut  | 42.00                              |
|         | 400  | Each cut  | 46.00                              |
|         | 450  | Each cut  | 57.00                              |
|         | 500  | Each cut  | 64.00                              |
|         | 600  | Each cut  | 70.00                              |

| Sl. No. | Description   | Unit                   | S of Rate for 2010-2011            |
|---------|---|------------------------|------------------------------------|
| 1       | 2   | 3                      | 4                                  |
| 25      | Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.   |                        |                                    |
|         | 10 mm to 20mm   | Each Tapping           | To follow as per AP. Standard data |
|         | 25 mm to 40mm   | Each Tapping           |                                    |
| 26      | Cutting road surface including stacking of excavated materials for pipe line trench work.   |                        |                                    |
|         | a) Cutting open B.T. road surface (as well as asphalt concrete up to 75 mm thick) including water bound macadam   | 10 Sqm                 | 372.00                             |
|         | b) Cutting open C.C. road surface   | 1 Cum                  | 1035.00                            |
|         | c) Cutting open water bound macadam road including soiling  | 1 Cum                  | 127.00                             |
| 27      | Bailing out water.(For PH item)   |                        |                                    |
|         | a) Bailing out water from the pipe line trenches with oil engine driven pump sets, including hire charges, fuel charges and wages for Driver and Helper.  | HP/Hour                | 30.00                              |
|         | b) Bailing out water from the pipe line trenches with Electric Driven pump set including hire charges, current charges and wages for Driver and Helper.   | HP/Hour                | 22.00                              |
|         | <b>NOTE:-</b> The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.   |                        |                                    |
| 28      | Shoring and strutting of trenches for water and sewer main.   |                        |                                    |
|         | a) Single Staging from (0 to 2.5 Mts.)  | 10 Sqm of Shoring area | To follow as per AP. Standard data |
|         | b) Double staging from (2.5 m to 4.5 Mts.)  | 10 Sqm of Shoring area |                                    |
| 29      | Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.  | 10 RM                  | To follow as per AP. Standard data |
| 30      | Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work. |                        |                                    |
|         | a) 0 to 1 m deep under water.   | 10 Cum                 | 7952.00                            |
|         | b) 1 to 2 m deep under water.   | 10 Cum                 | 11391.00                           |
|         | c) 2 to 5 m deep under water.   | 10 Cum                 | 17099.00                           |
|         | d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'   | 10 Cum                 | 3267.00                            |

| Sl. No. | Description  | Unit                      | S of Rate for 2010-2011            |
|---------|--|---------------------------|------------------------------------|
| 1       | 2  | 3                         | 4                                  |
|         | <b>NOTE:-</b> The above rates do not include rock requiring blasting or chiseling  |                           |                                    |
| 31      | Laying and jointing glazed <u>stoneware pipes</u> including loose jointing with cement fillets and all other incidental charges for infiltration gallery, inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of Stone Ware pipes.                             |                           |                                    |
|         | a) 200 mm to 400 mm  | Per Metre                 | 359.00                             |
| 32      | Laying and jointing <u>perforated RCC pipes</u> inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars. |                           |                                    |
|         | per every 25 mm dia.   | Per Metre                 | 24.00                              |
| 33      | Centering and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.  |                           |                                    |
| a)      | for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.  |                           |                                    |
|         | 1) Slabs for thickness (150 mm to 300 mm)  | One Sqm of Centering area | 1936.00                            |
|         | 2) Slabs for thickness above (300 mm)  |                           | 3871.00                            |
|         | 3) Side walls curved surfaces.   |                           | 1463.00                            |
|         | 4) Side wall straight surfaces.  |                           | 1302.00                            |
|         | 5) Dome.   |                           | 1585.00                            |
|         | 6) Roof Slab.  |                           | 976.00                             |
|         | 7) Column footing.   |                           | 1067.00                            |
|         | 8) Column braces and beams   |                           | 653.00                             |
|         | 9) Circular braces, ring beams & circular column.  |                           | 715.00                             |
|         | <b>Note:-</b> For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows.<br>15-18 m ---- 9%<br>18-21m --- 15%<br>21-24 m --- 21%<br>24 m -27m --27%<br>above27m ---- 30%   |                           |                                    |
| b)      | For Ground level works :-  |                           |                                    |
|         | 1) Slabs   | 1 Sqm                     | To follow as per AP. Standard data |
|         | 2) Beams & Lintels   | 1 Sqm                     |                                    |
|         | 3) Sun shades  | 1 Sqm                     |                                    |
|         | 4) RCC vertical walls of plane surface up to 3 m height such as ground level tanks clarifiers and sludge digesters etc.  | 1 Sqm                     | 572.00                             |
|         | 5) RCC vertical walls of circular faces up to 3 m height.  | 1 Sqm                     | 729.00                             |

| Sl. No. | Description   | Unit      | S of Rate for 2010-2011             |
|---------|---|-----------|-------------------------------------|
| 1       | 2   | 3         | 4                                   |
|         | <b>NOTE:-</b> Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m.  | 10 Sqm    |                                     |
| 34      | Lift or delift of materials :   |           |                                     |
|         | a) Lifting of cement concrete for RCC elevated reservoir. For every 3 m height or part thereof over the initial lift of 5 m   | 1 Cum     | 91.00                               |
|         | b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of masonry ground level reservoirs, construction of masonry ground level reservoirs, inspection wells, test wells and sump wells etc., for every 2 m depth or part thereof beyond the initial depth of 4 meters from ground level. | 1 Cum     | 28.00                               |
| 35      | Labour charges for fixing ventilating shafts complete with all accessories.   | Each      | To follow as per AP. Standard data  |
| 36      | Labour charges for fixing water closets including fixing of foot rests (for all sizes).   | Each      | Relevant Building SSR items.        |
| 37      | Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete   | Each      |                                     |
| 38      | Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete   | Each      |                                     |
| 39      | Fixing urinal with inlet and waste pipe connections etc., complete.   | Each      |                                     |
| 40      | Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete   | 10 Cum    |                                     |
| 41 a)   | Extra allowance for isolated scattered works viz., valve pits / chambers, public fountains, meter pits and manholes, delivery cistern etc., complete.   | Each      | 25% extra over the cost of chamber. |
| 41 b)   | Repairs to the existing mains, interconnections, replacement of valves/specials etc., including the cutting, jointing, bailing out of water, drying, earth work excavation etc., complete.  |           | 100% extra over the cost of work    |
| 42      | Removal of wet silt and sludge from sullage drains with aid of baskets and vessels.   | 10 Cum    | 1042.00                             |
| 43      | Well sinking in sandy and other loose soils under water either by manual labour, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc   |           |                                     |
|         | Up to 2 m below GL/m  | Per metre | To adopt as per AP. Standard data   |
|         | From 2 to 4 m below GL/m  | Per metre |                                     |
|         | From 4 to 6 m below GL/m  | Per metre |                                     |
|         | From 6 to 8 m below GL/m  | Per metre |                                     |
|         | From 8 to 10 m below GL/m   | Per metre |                                     |

| Sl. No. | Description  | Unit      | S of Rate for 2010-2011 |
|---------|--|-----------|-------------------------|
| 1       | 2  | 3         | 4                       |
|         | <b>Note:-</b> Below 10 m for every metre depth or part thereof add Rs.250/- per m. For higher dia, observed data is to be prepared and got approved.   |           |                         |
| 44      | Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.  |           | Observed Data           |
| 45      | Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.   |           |                         |
| a       | 500 Kilo litres  | Per litre | 8.20                    |
| b       | 1000 Kilo litres   | Per litre | 7.44                    |
| c       | 1500 Kilo litres   | Per litre | 7.02                    |
| d       | 2000 Kilo litres   | Per litre | 6.71                    |
| e       | 2500 Kilo litres   | Per litre | 6.38                    |
|         | <b>NOTE:</b> -1)For intermediate ranges proportional rates may be adopted.2) The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of <u>Rs.3,700/-</u> per tonne for cement and <u>Rs.34,000/-</u> per tonne for steel.   |           |                         |
|         | 2) For staging less than 15 m, the rate shall be reduced by Rs.0.02 paise per litre per every metre of difference in staging.  |           |                         |
|         | 3) For staging above 15 m, the rate shall be increased by Rs.0.05 paise per litre per every metre of additional staging.   |           |                         |
|         | 4) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x $(Rc-3700) \times 0.00007$<br>Rc = Rate of cement (Rs per Mt) at this time of preparation of estimate.  |           |                         |
|         | 5) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x $(RS-34,000) \times 0.00002$<br>Rs = Rate of steel (Rs per Mt) at this time of preparation of estimate.  |           |                         |
|         | 6) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.   |           |                         |
|         | 7) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes, bends and valves as per departmental designs and drawings. |           |                         |

| Sl. No. | Description   | Unit      | S of Rate for 2010-2011 |
|---------|---|-----------|-------------------------|
| 1       | 2   | 3         | 4                       |
|         | 8) The above rates are applicable for wind pressure up to 350 kg / sq m for every 100 kg/sqm decrease in wind pressure, the rate is to be decreased by 5%   |           |                         |
|         | 9) For tribal/Agency / Rural area, the above rates shall be increased by 10%  |           |                         |
|         | 10) If the ELSR is to be designed for seismic forces a) The above rates are applied up to Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 33 1/3% .   |           |                         |
|         | 11) <u>Fixtures include.</u>  |           |                         |
|         | a) A balcony of 1.00 m width at floor slab level/ middle ring beam level / top ring beam level with RCC post with GI pipe hand railing.   |           |                         |
|         | b) C.I. Manhole frame and cover : 0.60 x 0.6 m size 2 Nos.  |           |                         |
|         | c) RCC Mosquito proof ventilators.  |           |                         |
|         | d) RCC Finial - 1 No.   |           |                         |
|         | e) RCC precast ladders 0.45 m wide - 2 Nos.   |           |                         |
|         | f) RCC dog legged stair case of 1.00 m width with hand railing - 1 No.  |           |                         |
|         | g) RCC hand railing 0.75 m height all-round at floor level and roof level.  |           |                         |
|         | h) Water level indicator of approved pattern - 1 No.  |           |                         |
|         | i) Lightening arrestor with all its accessories complete including earthing - 1 No.   |           |                         |
| 46      | Rates for OHSRs/ELSRs including fixtures with a staging of 10 m without Seismic analysis.   |           |                         |
| a       | Up to 10,000 Litres capacity  | Per litre | 31.68                   |
| b       | 15,000 Litres capacity  | Per litre | 21.79                   |
| c       | 20,000 Litres capacity  | Per litre | 21.40                   |
| d       | 40,000 Litres capacity  | Per litre | 20.76                   |
| e       | 60,000 Litres capacity  | Per litre | 15.75                   |
| f       | 1,00,000 Litres capacity  | Per litre | 14.54                   |
| g       | 2,00,000 Litres capacity  | Per litre | 12.73                   |
| h       | 3,00,000 Litres capacity  | Per litre | 11.94                   |
| i       | 4,00,000 Litres capacity  | Per litre | 10.53                   |
| j       | 4,50,000 Litres capacity  | Per litre | 9.12                    |
|         | <b>NOTE:</b> -1) For intermediate ranges proportional rates may be adopted 2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of <u>Rs.3,700/-</u> per tonne for cement and <u>Rs.34,000/-</u> per tonne for steel. The Structure is M30 Grade concrete. |           |                         |



| Sl. No. | Description  | Unit | S of Rate for 2010-2011 |
|---------|--|------|-------------------------|
| 1       | 2  | 3    | 4                       |
|         | 2) For every metre of staging less than 10 m, the rate shall be reduced by Rs.0.02 paise per litre.  |      |                         |
|         | 3) For every metre of staging above 10 m, the rate shall be increased by Rs.0.05 paise per litre.  |      |                         |
|         | 4) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc - 3700) x 0.00007<br>Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate.  |      |                         |
|         | 5) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x (RS - 34,000) x 0.00002<br>Rs = Rate of steel (Rs per Mt) at this time of preparation of estimate.   |      |                         |
|         | 6) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.   |      |                         |
|         | 7) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes, bends and valves as per departmental designs and drawings. |      |                         |
|         | 8) The above rates applicable for wind pressures up to 350 kg / sq m for decrease in wind pressure the rate has to be decreased by 5% per every 100kg/sqm. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.  |      |                         |
|         | 9) For Tribal/Agency/ Rural area, the above rates shall be increased by 10%  |      |                         |
|         | 10) If the ELSR is to be designed for seismic forces a) The above rates are applied up to Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 33 1/3% .  |      |                         |
|         | 11) <u>Fixtures include</u> :  |      |                         |
|         | a) RCC or Aluminum ladder inside 0.45 m wide.  |      |                         |
|         | b) Spiral staircase on the outside.  |      |                         |
|         | c) Lightning arrestor, including conductor and earthing etc.   |      |                         |
|         | d) RCC ventilators with copper or stainless steel fly proof mesh.  |      |                         |
|         | e) RCC finial ventilators with copper or stainless steel fly proof mesh  |      |                         |
|         | f) Manholes frame and cover 0.75x0.75 m with frame as per IS specifications (light duty) 6 2 Nos   |      |                         |

| Sl. No. | Description   | Unit      | S of Rate for 2010-2011 |
|---------|---|-----------|-------------------------|
| 1       | 2   | 3         | 4                       |
|         | g) Railing with 32 mm dia G.I. Pipes (A class) in two rows around OHSR fixed in RCC (1:2:4) posts of size 100x75x75 mm with 1.5 m intervals around periphery on top of the OHSR for smaller capacities.           |           |                         |
|         | h) Water level indicator of good quality with ebonite/ copper float approved pattern- 1 No  |           |                         |
| 47      | Construction of Rapid Gravity Filtration Plant including civil, mechanical and electrical fully automation including trial running etc., complete.  |           |                         |
|         | 1) 2.0 Mld  | Per litre | 2.09                    |
|         | 2) 5.0 Mld  | Per litre | 1.91                    |
|         | 3) 10.0 Mld   | Per litre | 1.72                    |
|         | 4) 20.0 Mld   | Per litre | 1.54                    |
|         | 5) 30.00 Mld and above  | Per litre | 1.35                    |
|         | <b>NOTE :-</b>  |           |                         |
|         | a) For intermediate ranges proportional rates may be adopted  |           |                         |
|         | b) The above rates are applicable with cement @ rate of Rs.3,700/-MT and steel of 34,000/MT.  |           |                         |
|         | c) The above rates shall be increased / decreased due to increase/decrease in the cost of Cement by Basic rate x Rc - 3700) x 0.00007 Rc = Rate of cement (Rs per MT) at the time of preparation of estimate.     |           |                         |
|         | d) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x (RS - 34,000) x 0.00002<br>Rs = Rate of steel (Rs per MT) at the time of preparation of estimate. |           |                         |
|         | e) For rural areas an extra allowance of 10% shall be given on basic rate.  |           |                         |
|         | f) In case of raft foundation, additional cost involved due to provision of raft foundation shall be worked out and paid extra.   |           |                         |
|         | g) For intermediate ranges proportional rates may be adopted  |           |                         |
|         | h) <u>The components of the Filtration Plant are as follows.</u>  |           |                         |
| A)      | <u>Civil Works:</u><br>(all works of VRCC shall be in M30 design mix).  |           |                         |
|         | 1) Stilling chamber .   |           |                         |
|         | 2) Ventury flume channel with measuring devices   |           |                         |
|         | 3) Flash mixer chamber  |           |                         |
|         | 4) Tube settler & flocculation tanks.   |           |                         |

| Sl. No. | Description  | Unit | S of Rate for 2010-2011 |
|---------|--|------|-------------------------|
| 1       | 2  | 3    | 4                       |
|         | 5)Filter house, chemical house, Alum store, laboratory office room chlorination plant room, toilet etc. (All items shall be under RCC roof only ). Separate Isolated chemical house & chlorinator room for treatment 15.00 Mld & above. For more than 5mld separate Chemical house has to be provided. |      |                         |
|         | 6)Wash water tank of suitable capacity.  |      |                         |
|         | 7) All the doors and windows are of aluminum make  |      |                         |
|         | 8) All pipes and valves in filter beds are of D.I. make & connection from Flash mixer to Tube settler / Flocculation tank, sludge disposal pipes are of C.I. make.   |      |                         |
|         | 9) The bottom level of the clear water control chamber must be above G.L so as to dispose the leakage water by gravity.  |      |                         |
| B)      | <u>Mechanical Equipment</u>  |      |                         |
|         | 1)Alum dosing equipment  |      |                         |
|         | 2)Flash mixer equipment.   |      |                         |
|         | 3)Sludge disposal fittings by gravity  |      |                         |
|         | 4)Filtration plant equipment instrumentation and piping.   |      |                         |
|         | 5)Clariflocculation equipment (with stainless steel blades) with rotating bridge arrangement etc.,   |      |                         |
|         | 6)Wash water tank fittings and pump sets with 100% stand by.   |      |                         |
|         | 7)Air blower with motor 100% stand by and pipe connections.  |      |                         |
|         | 8) Chlorination equipment and pipe connections with chlorinator of 100% standby, Vacuum feed Gas Chlorination has to provided.   |      |                         |
|         | 9)Spares & Tools for 2 years   |      |                         |
|         | 10)Gaseous Chlorination with cylinders has to provided.  |      |                         |
| C)      | <u>Electrical Equipment</u>  |      |                         |
|         | 1)Necessary power supply wiring to motors and switches bus bar connections as per I.E. Rules   |      |                         |
|         | 2)Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.  |      |                         |
|         | 3) Erecting mechanical & Electrical equipment, trial run for 90 days 23.50 hours per day testing the treated water for efficient standards and maintenance of records and imparting training to staff.   |      |                         |
|         | 4)Supply of 6 - sets of completion plans and maintenance manual and brochures.   |      |                         |
|         | 5)Provision towards soil investigation.  |      |                         |

| Sl. No. | Description   | Unit | S of Rate for 2010-2011 |
|---------|---|------|-------------------------|
| 1       | 2   | 3    | 4                       |
| D)      | <u>Automation for flow measurements</u>   |      |                         |
|         | 1)Automated Lab testing equipment of internationally approved make and consumables for one year. For filtration plants of capacity 10 MLD and more automated online testing equipment shall be installed. |      |                         |
|         | 2) Automation for flow of Conductivity, Turbidity, Ph value, Residual Chlorine with recording & Storage facility (Computer based) & Alarm by SMS or other methods.  |      |                         |
|         | 3)Off - Site Supervisory and Data Accusation (OSSADA) system for Raw water and clear water measuring, recording, Off-Site Digital Display and data Transmission to Cell Phone(SMS).                       |      |                         |
| Note :  | 1) Alam tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)   |      |                         |
|         | 2) Mechanical equipment for Alam mixing and in flocculation tank must be corrosive resistant (due to Alam)  |      |                         |

**1. S.S.RATES FOR R.C.C. PLAIN ENDED PIPES**

| Sl. No.  | Description  |       |                      |              |              |
|----------|--|-------|----------------------|--------------|--------------|
| <b>1</b> | <b>2</b>   |       |                      |              |              |
| <b>1</b> | <b>MANUFACTURE, SUPPLY AND DELIVERY OF R.C.C. PLAIN ENDED PIPES CONFORMING TO B.I.S. 458/2003 , EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES &amp; DUTIES</b> |       |                      |              |              |
|          | Size   | Unit  | S S Rate For 2010-11 |              |              |
|          |  |       | NP - 2 Class         | NP - 3 Class | NP - 4 Class |
|          | 80 mm dia  | Metre | 120.00               |              |              |
|          | 100 mm dia   | Metre | 140.00               |              |              |
|          | 150 mm dia   | Metre | 165.00               |              |              |
|          | 200 mm dia   | Metre | 197.00               |              |              |
|          | 225 mm dia   | Metre | 214.00               |              |              |
|          | 250 mm dia   | Metre | 228.00               |              |              |
|          | 300 mm dia   | Metre | 329.00               | 761.00       | 772.00       |
|          | 350 mm dia   | Metre | 409.00               | 927.00       | 945.00       |
|          | 400 mm dia   | Metre | 471.00               | 1026.00      | 1047.00      |
|          | 450 mm dia   | Metre | 578.00               | 1175.00      | 1186.00      |
|          | 500 mm dia   | Metre | 632.00               | 1270.00      | 1459.00      |
|          | 600 mm dia   | Metre | 939.00               | 1915.00      | 2254.00      |
|          | 700 mm dia   | Metre | 1199.00              | 2370.00      | 3011.00      |
|          | 800 mm dia   | Metre | 1469.00              | 3129.00      | 3919.00      |
|          | 900 mm dia   | Metre | 1846.00              | 3920.00      | 4884.00      |
|          | 1000 mm dia  | Metre | 2251.00              | 4885.00      | 6684.00      |
|          | 1100 mm dia  | Metre | 2668.00              | 5746.00      | 7736.00      |
|          | 1200 mm dia  | Metre | 3178.00              | 6762.00      | 9036.00      |
|          | 1400 mm dia  | Metre | 4336.00              | 8718.00      | 12457.00     |
|          | 1600 mm dia  | Metre | 5002.00              | 11283.00     | 14855.00     |
|          | 1800 mm dia  | Metre | 6576.00              | 14929.00     | 19877.00     |

**Note :** All the prices are ex-works. Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Plain ended pipes are based on the following raw materials cost.

Cement. Rs.3,700/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.33,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Roads =  $(S2 - S1) / 1000 \times Ws$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times Wc$ .

S1 = Rs. 33,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3,700/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

Ws = Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc = Weight of Cement required (Kg.) per metre of pipe.

**2. S.S.RATES FOR R.C.C. COLLARS**

| Sl. No. | Description  |      |                        |              |              |
|---------|--|------|------------------------|--------------|--------------|
| 1       | 2  |      |                        |              |              |
| 1       | <b>MANUFACTURE, SUPPLY AND DELIVERY OF R.C.C. COLLARS CONFORMING TO B.I.S. 458/2003 (RATE PER EACH COLLAR) SUITABLE FOR R.C.C. PLAIN ENDED PIPES INCLUDING TRANSPORTATION BUT EXCLUDING TAXES &amp; DUTIES</b> |      |                        |              |              |
|         | Size   | Unit | S S Rates for 2010-11. |              |              |
|         |  |      | NP - 2 Class           | NP - 3 Class | NP - 4 Class |
|         | 80 mm dia  | Each | 36.00                  |              |              |
|         | 100 mm dia   | Each | 39.00                  |              |              |
|         | 150 mm dia   | Each | 40.00                  |              |              |
|         | 200 mm dia   | Each | 54.00                  |              |              |
|         | 225 mm dia   | Each | 58.00                  |              |              |
|         | 250 mm dia   | Each | 64.00                  |              |              |
|         | 300 mm dia   | Each | 83.00                  | 117.00       | 117.00       |
|         | 350 mm dia   | Each | 103.00                 | 147.00       | 147.00       |
|         | 400 mm dia   | Each | 113.00                 | 167.00       | 167.00       |
|         | 450 mm dia   | Each | 179.00                 | 223.00       | 223.00       |
|         | 500 mm dia   | Each | 204.00                 | 266.00       | 266.00       |
|         | 600 mm dia   | Each | 273.00                 | 349.00       | 349.00       |
|         | 700 mm dia   | Each | 355.00                 | 466.00       | 466.00       |
|         | 800 mm dia   | Each | 498.00                 | 594.00       | 594.00       |
|         | 900 mm dia   | Each | 598.00                 | 693.00       | 693.00       |
|         | 1000 mm dia  | Each | 699.00                 | 866.00       | 866.00       |
|         | 1100 mm dia  | Each | 853.00                 | 1095.00      | 1095.00      |
|         | 1200 mm dia  | Each | 1034.00                | 1371.00      | 1371.00      |
|         | 1400 mm dia  | Each | 1336.00                | 1737.00      | 1737.00      |
|         | 1600 mm dia  | Each | 1704.00                | 2222.00      | 2222.00      |
|         | 1800 mm dia  | Each | 1741.00                | 2857.00      | 2857.00      |

**Note:** Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost.

Cement. Rs.3,700/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.33,000/- per MT. (including all taxes and freight).

The revised cost of RCC collars due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of M.S. Roads =  $(S2-S1)/1000 \times Ws$ .

R2 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of Cement =  $(C2-C1)/1000 \times Wc$ .

S1 = Rs. 33,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3,700/- , C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg.) per each collar.

Wc = Weight of Cement required (Kg.) per each collar.

**3. S.S.RATES FOR R.C.C. S/S PIPES (Non Pressure)**

| Sl. No. | Description  |             |                               |                     |                     |
|---------|--|-------------|-------------------------------|---------------------|---------------------|
| 1       | 2  |             |                               |                     |                     |
| 1       | <b>MANUFACTURE, SUPPLY AND DELIVERY OF R.C.C. SOCKET AND SPIGOT PIPES CONFORMING TO B.I.S. 458/2003 AT EX-FACTORY (RATE PER METER OF EFFECTIVE LENGTH) EXCLUDING TRANSPORTATION, TAXES &amp; DUTIES.</b> |             |                               |                     |                     |
|         | <b>Size</b>  | <b>Unit</b> | <b>S.S. Rates for 2010-11</b> |                     |                     |
|         |  |             | <b>NP - 2 Class</b>           | <b>NP - 3 Class</b> | <b>NP - 4 Class</b> |
|         | 80 mm dia  | Metre       | 149.00                        |                     |                     |
|         | 100 mm dia   | Metre       | 169.00                        |                     |                     |
|         | 150 mm dia   | Metre       | 199.00                        |                     |                     |
|         | 200 mm dia   | Metre       | 244.00                        |                     |                     |
|         | 225 mm dia   | Metre       | 266.00                        |                     |                     |
|         | 250 mm dia   | Metre       | 284.00                        |                     |                     |
|         | 300 mm dia   | Metre       | 399.00                        | 976.00              | 1029.00             |
|         | 350 mm dia   | Metre       | 513.00                        | 1233.00             | 1254.00             |
|         | 400 mm dia   | Metre       | 565.00                        | 1366.00             | 1390.00             |
|         | 450 mm dia   | Metre       | 704.00                        | 1508.00             | 1520.00             |
|         | 500 mm dia   | Metre       | 811.00                        | 1722.00             | 1866.00             |
|         | 600 mm dia   | Metre       | 1142.00                       | 2412.00             | 2448.00             |
|         | 700 mm dia   | Metre       | 1478.00                       | 3074.00             | 3167.00             |
|         | 800 mm dia   | Metre       | 1894.00                       | 4064.00             | 4123.00             |
|         | 900 mm dia   | Metre       | 2391.00                       | 5100.00             | 5189.00             |
|         | 1000 mm dia  | Metre       | 2908.00                       | 5756.00             | 6135.00             |
|         | 1100 mm dia  | Metre       | 3406.00                       | 6778.00             | 7074.00             |
|         | 1200 mm dia  | Metre       | 3853.00                       | 7991.00             | 8272.00             |
|         | 1400 mm dia  | Metre       | 5502.00                       | 10578.00            | 11708.00            |
|         | 1600 mm dia  | Metre       | 6805.00                       | 13701.00            | 13969.00            |
|         | 1800 mm dia  | Metre       | 7606.00                       | 18133.00            | 18698.00            |

**Note:** All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC S/S Non-Pressure pipes are based on the following raw materials cost.

Cement. Rs.3,700/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.33,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Roads  
 $= (S2 - S1) / 1000 \times Ws$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement  
 $= (C2 - C1) / 1000 \times Wc$ .

S1 = Rs. 33,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3,700/- , C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc = Weight of Cement required (Kg.) per metre of pipe.

**4. S.S.RATES FOR R.C.C. S/S PIPES (Pressure)**

| Sl.No.   | Description   |             |                               |                   |                   |
|----------|---|-------------|-------------------------------|-------------------|-------------------|
| <b>1</b> | <b>2</b>  |             |                               |                   |                   |
| <b>1</b> | <b>MANUFACTURE, SUPPLY AND DELIVERY OF R.C.C. SOCKET AND SPIGOT PIPES CONFORMING TO B.I.S. 458/2003 EX-FACTORY (RATE PER METER OF EFFECTIVE LENGTH) EXCLUDING TRANSPORTATION, TAXES &amp; DUTIES.</b> |             |                               |                   |                   |
|          | <b>Size</b>   | <b>Unit</b> | <b>S.S. Rates for 2010-11</b> |                   |                   |
|          |   |             | <b>P1 - Class</b>             | <b>P2 - Class</b> | <b>P3 - Class</b> |
|          | 80 mm dia   | Metre       | 199.00                        | 223.00            | 252.00            |
|          | 100 mm dia  | Metre       | 224.00                        | 266.00            | 307.00            |
|          | 150 mm dia  | Metre       | 309.00                        | 396.00            | 486.00            |
|          | 200 mm dia  | Metre       | 359.00                        | 513.00            | 677.00            |
|          | 225 mm dia  | Metre       | 404.00                        | 583.00            | 752.00            |
|          | 250 mm dia  | Metre       | 442.00                        | 622.00            | 787.00            |
|          | 300 mm dia  | Metre       | 595.00                        | 895.00            | 1110.00           |
|          | 350 mm dia  | Metre       | 741.00                        | 1247.00           | 1607.00           |
|          | 400 mm dia  | Metre       | 879.00                        | 1653.00           | 2124.00           |
|          | 450 mm dia  | Metre       | 937.00                        | 1958.00           | 2611.00           |
|          | 500 mm dia  | Metre       | 1250.00                       | 2121.00           | 2963.00           |
|          | 600 mm dia  | Metre       | 1711.00                       | 3163.00           | 4102.00           |
|          | 700 mm dia  | Metre       | 2276.00                       | 4149.00           | 5205.00           |
|          | 800 mm dia  | Metre       | 2848.00                       | 4917.00           | 6285.00           |
|          | 900 mm dia  | Metre       | 3434.00                       | 5775.00           |                   |
|          | 1000 mm dia   | Metre       | 4335.00                       | 6620.00           |                   |
|          | 1100 mm dia   | Metre       | 5201.00                       |                   |                   |
|          | 1200 mm dia   | Metre       | 6101.00                       |                   |                   |

**Note:** All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC S/S Pressure pipes are based on the following raw materials cost.

Cement. Rs.3,700/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.33,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Rods  
 $= (S2 - S1) / 1000 \times W_s$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement  
 $= (C2 - C1) / 1000 \times W_c$ .

S1 = Rs. 33,000/-

S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3,700/-

C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc = Weight of Cement required (Kg.) per metre of pipe.



**5. S.S. RATES FOR RUBBER RINGS TO SUIT R.C.C. S/S PIPES**

| <b>Sl. No.</b> | <b>Description</b>  |             |                               |                     |                     |
|----------------|---|-------------|-------------------------------|---------------------|---------------------|
| <b>1</b>       | <b>2</b>  |             |                               |                     |                     |
| <b>1</b>       | <b>MANUFACTURE, SUPPLY AND DELIVERY OF RUBBER RINGS TO SUIT R.C.C. SOCKET AND SPIGOT PIPES CONFORMING TO B.I.S. 5382/ 1985 (RATE PER EACH RUBBER RING) INCLUDING TRANSPORTATION BUT EXCLUDING TAXES &amp; DUTIES.</b> |             |                               |                     |                     |
|                | <b>Size</b>   | <b>Unit</b> | <b>S.S. Rates for 2010-11</b> |                     |                     |
|                |   |             | <b>NP - 2 Class</b>           | <b>NP - 3 Class</b> | <b>NP - 4 Class</b> |
|                | 80 mm dia   | Each        | 18.00                         |                     |                     |
|                | 100 mm dia  | Each        | 22.00                         |                     |                     |
|                | 150 mm dia  | Each        | 39.00                         |                     |                     |
|                | 200 mm dia  | Each        | 45.00                         |                     |                     |
|                | 225 mm dia  | Each        | 50.00                         |                     |                     |
|                | 250 mm dia  | Each        | 56.00                         |                     |                     |
|                | 300 mm dia  | Each        | 69.00                         | 88.00               | 88.00               |
|                | 350 mm dia  | Each        | 79.00                         | 105.00              | 105.00              |
|                | 400 mm dia  | Each        | 87.00                         | 120.00              | 120.00              |
|                | 450 mm dia  | Each        | 100.00                        | 136.00              | 136.00              |
|                | 500 mm dia  | Each        | 131.00                        | 156.00              | 156.00              |
|                | 600 mm dia  | Each        | 171.00                        | 227.00              | 227.00              |
|                | 700 mm dia  | Each        | 233.00                        | 272.00              | 272.00              |
|                | 800 mm dia  | Each        | 295.00                        | 330.00              | 330.00              |
|                | 900 mm dia  | Each        | 370.00                        | 446.00              | 446.00              |
|                | 1000 mm dia   | Each        | 433.00                        | 538.00              | 538.00              |
|                | 1100 mm dia   | Each        | 521.00                        | 689.00              | 689.00              |
|                | 1200 mm dia   | Each        | 833.00                        | 866.00              | 866.00              |
|                | 1400 mm dia   | Each        | 916.00                        | 953.00              | 953.00              |
|                | 1600 mm dia   | Each        | 1141.00                       | 1163.00             | 1163.00             |
|                | 1800 mm dia   | Each        | 1422.00                       | 1485.00             | 1485.00             |
| <b>2</b>       | <b>MANUFACTURE, SUPPLY AND DELIVERY OF RUBBER RINGS TO SUIT R.C.C. SOCKET AND SPIGOT PIPES CONFORMING TO B.I.S. 5382/ 1985 (RATE PER EACH RUBBER RING) INCLUDING TRANSPORTATION BUT EXCLUDING TAXES &amp; DUTIES.</b> |             |                               |                     |                     |
|                | <b>Size</b>   |             | <b>P1 - Class</b>             | <b>P2 - Class</b>   | <b>P3 - Class</b>   |
|                | 80 mm dia   | Each        | 18.00                         | 18.00               | 18.00               |
|                | 100 mm dia  | Each        | 22.00                         | 23.00               | 23.00               |
|                | 150 mm dia  | Each        | 39.00                         | 39.00               | 39.00               |
|                | 200 mm dia  | Each        | 45.00                         | 45.00               | 45.00               |
|                | 225 mm dia  | Each        | 50.00                         | 51.00               | 53.00               |
|                | 250 mm dia  | Each        | 56.00                         | 58.00               | 59.00               |
|                | 300 mm dia  | Each        | 69.00                         | 73.00               | 76.00               |
|                | 350 mm dia  | Each        | 79.00                         | 92.00               | 100.00              |

## Public Health Items

|  |             |      |                   |                   |                   |
|--|-------------|------|-------------------|-------------------|-------------------|
|  | 400 mm dia  | Each | 87.00             | 120.00            | 123.00            |
|  | <b>Size</b> |      | <b>P1 - Class</b> | <b>P2 - Class</b> | <b>P3 – Class</b> |
|  | 450 mm dia  | Each | 100.00            | 138.00            | 141.00            |
|  | 500 mm dia  | Each | 131.00            | 156.00            | 163.00            |
|  | 600 mm dia  | Each | 171.00            | 194.00            | 196.00            |
|  | 700 mm dia  | Each | 233.00            | 255.00            | 272.00            |
|  | 800 mm dia  | Each | 295.00            | 326.00            | 326.00            |
|  | 900 mm dia  | Each | 370.00            | 413.00            |                   |
|  | 1000 mm dia | Each | 433.00            | 498.00            |                   |
|  | 1100 mm dia | Each | 521.00            |                   |                   |
|  | 1200 mm dia | Each | 833.00            |                   |                   |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**6. S.S. RATES FOR CONVEYANCE OF R.C.C. PLAIN ENDED PIPES**

| Sl.No.   | Description  | Rate up to 5 Kms Lead including Loading, unloading and stacking | Rate for every additional 1 KM lead or part thereof. | Rate up to 5 Kms Lead including Loading, unloading and stacking | Rate for every additional 1 KM lead or part thereof. |
|----------|--|---|--|---|--|
| 1        | 2  | 3   | 4  | 5   | 6  |
| <b>1</b> | <b>CONVEYANCE OF R.C.C. PLAIN ENDED PIPES ON ALL WEATHER ROADS INCLUDING LOADING, UNLOADING AND STACKING (per Metre)</b> |   |  |   |  |
|          |  | <b>NP - 2 Class</b>   |  | <b>NP - 3 Class &amp; NP - 4 Class</b>                          |  |
|          | 80 mm dia  | 2.20  | 0.10   |   |  |
|          | 100 mm dia   | 2.60  | 0.10   |   |  |
|          | 150 mm dia   | 3.90  | 0.20   |   |  |
|          | 200 mm dia   | 5.10  | 0.20   |   |  |
|          | 225 mm dia   | 5.90  | 0.30   |   |  |
|          | 250 mm dia   | 6.80  | 0.30   |   |  |
|          | 300 mm dia   | 10.10   | 0.40   | 26.60   | 0.70   |
|          | 350 mm dia   | 13.20   | 0.80   | 28.70   | 0.80   |
|          | 400 mm dia   | 15.30   | 0.90   | 33.90   | 1.10   |
|          | 450 mm dia   | 19.40   | 1.10   | 37.20   | 1.30   |
|          | 500 mm dia   | 21.10   | 1.30   | 40.70   | 1.30   |
|          | 600 mm dia   | 30.50   | 2.00   | 60.90   | 2.80   |
|          | 700 mm dia   | 38.90   | 2.80   | 67.70   | 3.30   |
|          | 800 mm dia   | 45.80   | 2.80   | 81.20   | 3.30   |
|          | 900 mm dia   | 52.50   | 2.80   | 106.60  | 6.20   |
|          | 1000 mm dia  | 77.90   | 5.80   | 128.70  | 6.20   |
|          | 1100 mm dia  | 85.50   | 5.80   | 138.70  | 6.70   |
|          | 1200 mm dia  | 96.50   | 6.20   | 155.70  | 6.70   |
|          | 1400 mm dia  | 116.80  | 6.20   | 211.60  | 7.00   |
|          | 1600 mm dia  | 135.40  | 6.20   | 253.90  | 7.00   |
|          | 1800 mm dia  | 155.70  | 6.20   | 338.50  | 9.80   |

**7. S.S. RATES FOR CONVEYANCE OF R.C.C. S/S PIPES**

| Sl. No.  | Description  | Rate up to 5 Kms Lead including Loading, unloading & stacking | Rate for every additional 1 KM lead or part thereof. | Rate up to 5 Kms Lead including Loading, unloading and stacking | Rate for every additional 1 KM lead or part thereof. |
|----------|--|---|--|---|--|
| 1        | 2  | 3   | 4  | 5   | 6  |
| <b>1</b> | <b>CONVEYANCE OF R.C.C. SOCKET AND SPIGOT PIPES ON ALL WEATHER ROADS INCLUDING LOADING, UNLOADING AND STACKING (per Metre of effective length)</b> |   |  |   |  |
|          | <b>Size</b>  | <b>NP - 2 &amp; P1 Class</b>                                  |  | <b>NP - 3 &amp; NP - 4 Class</b>                                |  |
|          | 80 mm dia  | 2.80  | 0.10   |   |  |
|          | 100 mm dia   | 3.20  | 0.20   |   |  |
|          | 150 mm dia   | 4.50  | 0.20   |   |  |
|          | 200 mm dia   | 5.80  | 0.40   |   |  |
|          | 225 mm dia   | 6.90  | 0.40   |   |  |
|          | 250 mm dia   | 7.70  | 0.70   |   |  |
|          | 300 mm dia   | 11.60   | 0.80   | 31.80   | 1.00   |
|          | 350 mm dia   | 14.40   | 0.90   | 33.90   | 1.20   |
|          | 400 mm dia   | 17.50   | 1.10   | 42.20   | 2.20   |
|          | 450 mm dia   | 20.00   | 1.20   | 46.50   | 2.20   |
|          | 500 mm dia   | 22.40   | 1.30   | 50.80   | 2.30   |
|          | 600 mm dia   | 29.60   | 2.20   | 69.40   | 3.30   |
|          | 700 mm dia   | 36.00   | 2.30   | 93.10   | 6.50   |
|          | 800 mm dia   | 49.90   | 3.50   | 110.00  | 6.50   |
|          | 900 mm dia   | 74.50   | 6.40   | 126.90  | 6.50   |
|          | 1000 mm dia  | 84.70   | 6.40   | 133.80  | 6.50   |
|          | 1100 mm dia  | 95.60   | 6.50   | 143.80  | 6.50   |
|          | 1200 mm dia  | 106.60  | 6.50   | 160.80  | 6.70   |
|          | 1400 mm dia  | 132.00  | 6.50   | 214.90  | 6.70   |
|          | 1600 mm dia  | 157.40  | 6.70   | 253.90  | 7.20   |
|          | 1800 mm dia  | 194.60  | 6.70   | 338.50  | 9.80   |
|          |  | <b>P2 - Class</b>   |  | <b>P3 &amp; P4 Class</b>  |  |
|          | 80 mm dia  | 2.80  | 0.10   | 2.80  | 0.10   |
|          | 100 mm dia   | 3.20  | 0.20   | 3.20  | 0.20   |
|          | 150 mm dia   | 4.50  | 0.20   | 4.50  | 0.20   |
|          | 200 mm dia   | 6.30  | 0.40   | 8.50  | 0.70   |
|          | 225 mm dia   | 8.50  | 0.70   | 9.50  | 0.80   |
|          | 250 mm dia   | 8.90  | 0.80   | 11.20   | 0.90   |
|          | 300 mm dia   | 16.90   | 1.00   | 19.40   | 1.10   |
|          | 350 mm dia   | 21.30   | 1.20   | 27.10   | 1.30   |
|          | 400 mm dia   | 25.40   | 1.30   | 36.40   | 2.20   |
|          | 450 mm dia   | 32.10   | 2.10   | 44.80   | 2.20   |
|          | 500 mm dia   | 36.40   | 2.20   | 55.00   | 3.20   |
|          | 600 mm dia   | 48.30   | 2.20   | 78.70   | 4.10   |
|          | 700 mm dia   | 71.10   | 4.40   | 115.90  | 6.50   |
|          | 800 mm dia   | 94.80   | 6.20   | 147.30  | 6.50   |
|          | 900 mm dia   | 115.60  | 6.50   |   |  |
|          | 1000 mm dia  | 142.20  | 6.70   |   |  |

**8. S.S.RATES FOR A.C. PIPES**

| Sl.No    | Description  |             |                              |                   |                   |
|----------|--|-------------|------------------------------|-------------------|-------------------|
| <b>1</b> | <b>MANUFACTURE AS PER BIS NO: 1592/2003AS AMENDED FROM TIME TO TIME (MAZZA PROCESS) AND SUPPLY OF AC PRESSURE PIPES DULY MARKED WITH BIS MARK, INCLUDING COST OF MATERIAL, INCIDENTAL HANDLING, LOADING AND PACKING CHARGES BUT ARE EXCLUSIVE OF TRANSPORTATION, UNLOADING, STACKING AT DEPARTMENTAL STORES, EXCISE DUTY, VAT OCTROI AND OTHER GOVT. LEVIES.</b>                       |             |                              |                   |                   |
|          | <b>Size</b>  | <b>Unit</b> | <b>S.S Rates for 2010-11</b> |                   |                   |
|          |  |             | <b>Class - 15</b>            | <b>Class - 20</b> | <b>Class - 25</b> |
|          | 80 mm dia  | Rate/Metre  | 134.00                       | 145.00            | 181.00            |
|          | 100 mm dia   | Rate/Metre  | 177.00                       | 224.00            | 276.00            |
|          | 125 mm dia   | Rate/Metre  | 231.00                       | 288.00            | 362.00            |
|          | 150 mm dia   | Rate/Metre  | 328.00                       | 407.00            | 509.00            |
|          | 200 mm dia   | Rate/Metre  | 545.00                       | 691.00            | 878.00            |
|          | 250 mm dia   | Rate/Metre  | 689.00                       | 887.00            | 1113.00           |
|          | 300 mm dia   | Rate/Metre  | 969.00                       | 1252.00           | 1596.00           |
|          | 350 mm dia   | Rate/Metre  | 1184.00                      | 1537.00           | 1930.00           |
|          | 400 mm dia   | Rate/Metre  | 1542.00                      | 2006.00           | 2489.00           |
|          | 450 mm dia   | Rate/Metre  | 1811.00                      | 2398.00           | 3005.00           |
|          | 500 mm dia   | Rate/Metre  | 2249.00                      | 2939.00           | 3692.00           |
|          | 600 mm dia   | Rate/Metre  | 3193.00                      | 4159.00           | 5301.00           |
| <b>2</b> | <b>Lowering, laying and Jointing of AC Pressure pipes with AC Couplings or CID Joints complete with Rubber Rings in readymade trenches true to alignment and gradient including filling with water lead up to 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/72</b> |             |                              |                   |                   |
|          | 80 mm dia  | Rate/Metre  | 24.00                        | 24.00             | 24.00             |
|          | 100 mm dia   | Rate/Metre  | 35.00                        | 35.00             | 35.00             |
|          | 125 mm dia   | Rate/Metre  | 39.00                        | 39.00             | 39.00             |
|          | 150 mm dia   | Rate/Metre  | 46.00                        | 46.00             | 46.00             |
|          | 200 mm dia   | Rate/Metre  | 61.00                        | 61.00             | 61.00             |
|          | 250 mm dia   | Rate/Metre  | 73.00                        | 73.00             | 73.00             |
|          | 300 mm dia   | Rate/Metre  | 90.00                        | 90.00             | 90.00             |
|          | 350 mm dia   | Rate/Metre  | 153.00                       | 153.00            | 153.00            |
|          | 400 mm dia   | Rate/Metre  | 229.00                       | 229.00            | 229.00            |
|          | 450 mm dia   | Rate/Metre  | 279.00                       | 279.00            | 279.00            |
|          | 500 mm dia   | Rate/Metre  | 355.00                       | 355.00            | 355.00            |
|          | 600 mm dia   | Rate/Metre  | 382.00                       | 382.00            | 382.00            |

|              |  |   |
|--------------|--|---|
|              | <p>1. The above rates of AC Pipes are based on the Cement cost of RS 3,700/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 41,109/- per M.T basic price (Ex- India Port) (Excluding duties, taxes and transportation etc.) For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under.</p> <p><math>W \times 0.85 \times IC</math> Where <math>W</math> = Weight of pipe in Kgø/Rmt<br/> <math>IC</math> = Increase/Decrease in cost of cement/Kg</p> <p>For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under :</p> <p><math>W \times 0.15 \times IF</math> Where : <math>W</math> = Weight of pipe in Kgø/Rmt<br/> <math>IF</math> = Increase /Decrease in cost of fiber/Kg</p> |   |
| <b>Note:</b> | <p>1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of ðMazzaö process.</p> <p>2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.</p> <p>3)The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate</p>  |   |
| <b>2</b>     | Transportation of AC pressure pipes at site of work anywhere in Andhra Pradesh on motor able roads for full truck loads including transit insurance, unloading, and stacking at site of work etc. Complete (AC Couplings and Rubber rings are to be supplied free of transportation charges).  | 10% on the basic cost of corresponding AC Pressure pipes. |

**9. S.S.RATES FOR A.C. COUPLINGS**

| Sl. No.  | Description   |             |                               |                   |                   |
|----------|---|-------------|-------------------------------|-------------------|-------------------|
| <b>1</b> | <b>2</b>  |             |                               |                   |                   |
| <b>1</b> | <b>MANUFACTURE AS PER MANUFACTURERS SPECIFICATION (MAZZA PROCESS) AND SUPPLY OF A.C. COUPLINGS EXCLUDING COST OF RUBBER RINGS TO SUIT AC PRESSURE PIPES INCLUDING COST OF MATERIAL, INCIDENTAL HANDLING, PACKING TRANSPORTATION AND UNLOADING AT SITE TRANSIT RISK BUT EXCLUDING EXCISE DUTY, VAT AND OTHER GOVT. LEVIES.</b> |             |                               |                   |                   |
|          | <b>Size</b>   | <b>Unit</b> | <b>S.S Rates for 2010-11.</b> |                   |                   |
|          |   |             | <b>Class - 15</b>             | <b>Class - 20</b> | <b>Class - 25</b> |
|          | 80 mm dia   | Rate/Each   | 71.00                         | 75.00             | 86.00             |
|          | 100 mm dia  | Rate/Each   | 93.00                         | 96.00             | 116.00            |
|          | 125 mm dia  | Rate/Each   | 116.00                        | 126.00            | 152.00            |
|          | 150 mm dia  | Rate/Each   | 132.00                        | 166.00            | 206.00            |
|          | 200 mm dia  | Rate/Each   | 246.00                        | 261.00            | 334.00            |
|          | 250 mm dia  | Rate/Each   | 285.00                        | 358.00            | 457.00            |
|          | 300 mm dia  | Rate/Each   | 372.00                        | 480.00            | 617.00            |
|          | 350 mm dia  | Rate/Each   | 485.00                        | 627.00            | 803.00            |
|          | 400 mm dia  | Rate/Each   | 747.00                        | 976.00            | 1258.00           |
|          | 450 mm dia  | Rate/Each   | 896.00                        | 1181.00           | 1523.00           |
|          | 500 mm dia  | Rate/Each   | 1068.00                       | 1429.00           | 1832.00           |
|          | 600 mm dia  | Rate/Each   | 1284.00                       | 1598.00           | 2044.00           |

1. The above rates of AC Coupling are based on the Cement cost of RS 3,700/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 41,109/- per M.T basic price (Ex-Indian Port) (Excluding duties, taxes and transportation etc.)

For any Increase/ Decrease in the rate of cement, the price of AC Coupling per Each shall be increased/decreased as under.

$W \times 0.85 \times IC$  Where W = Weight of Coupling in Kgø/Each

IC = Increase/Decrease in cost of cement/kg

For any increase/decrease in the rate of fiber, the price of AC Coupling per Each shall be increased/Decreased as under :

$W \times 0.15 \times IF$  Where : W=: Weight of Coupling in Kgø/Each

IF = Increase /Decrease in cost of fiber/kg

The Fiber rates are to be obtained from A.C. Pipe manufacturer of òMazzaö process.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**10. S.S.RATES FOR RUBBER RINGS TO SUIT A.C. COUPLINGS**

| <b>Sl. No.</b> | <b>Description</b>  |             |                               |                   |                   |
|----------------|---|-------------|-------------------------------|-------------------|-------------------|
| <b>1</b>       | <b>2</b>  |             |                               |                   |                   |
| <b>1</b>       | <b>SCHEDULE OF RATE FOR SUPPLY OF RUBBER RINGS MANUFACTURED AS PER BIS: 5382/1988 WITH BIS MARK EMBOSSED PER EACH SET SUITABLE FOR A.C. COUPLINGS INCLUDING COST OF MATERIAL, INCIDENTAL, HANDLING, PACKING, TRANSPORTATION AND UNLOADING AT SITE TRANSIT RISK ETC., BUT EXCLUDING VAT.</b> |             |                               |                   |                   |
|                | <b>Size</b>   | <b>Unit</b> | <b>S.S Rates for 2010-11.</b> |                   |                   |
|                |   |             | <b>Class - 15</b>             | <b>Class - 20</b> | <b>Class - 25</b> |
|                | 80 mm dia   | Each Set    | 46.00                         | 46.00             | 46.00             |
|                | 100 mm dia  | Each Set    | 56.00                         | 56.00             | 56.00             |
|                | 125 mm dia  | Each Set    | 74.00                         | 74.00             | 74.00             |
|                | 150 mm dia  | Each Set    | 94.00                         | 94.00             | 94.00             |
|                | 200 mm dia  | Each Set    | 96.00                         | 96.00             | 96.00             |
|                | 250 mm dia  | Each Set    | 112.00                        | 112.00            | 112.00            |
|                | 300 mm dia  | Each Set    | 112.00                        | 112.00            | 112.00            |
|                | 350 mm dia  | Each Set    | 127.00                        | 127.00            | 127.00            |
|                | 400 mm dia  | Each Set    | 155.00                        | 155.00            | 155.00            |
|                | 450 mm dia  | Each Set    | 183.00                        | 183.00            | 183.00            |
|                | 500 mm dia  | Each Set    | 211.00                        | 211.00            | 211.00            |
|                | 600 mm dia  | Each Set    | 239.00                        | 239.00            | 239.00            |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate



**11. S.S. RATES FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES**

| Sl.No. | Description   |       |                        |          |           |           |           |           |
|--------|---|-------|------------------------|----------|-----------|-----------|-----------|-----------|
| 1      | 2   |       |                        |          |           |           |           |           |
| 1      | <b>MANUFACTURE, SUPPLY, DELIVERY OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES CONFORMING TO IS 784/2001 Ex-factory excluding transportation, taxes &amp; duties.</b> |       |                        |          |           |           |           |           |
|        | Size  | Unit  | S.S Rates for 2010-11. |          |           |           |           |           |
|        |   |       | Rs.                    | Rs.      | Rs.       | Rs.       | Rs.       | Rs.       |
|        |   |       | 6 Kg/cm2               | 8 Kg/cm2 | 10 Kg/cm2 | 12 Kg/cm2 | 14 Kg/cm2 | 16 Kg/cm2 |
|        | 350 MM DIA  | Metre | 2460                   | 2470     | 2480      | 2490      | 2540      | 2630      |
|        | 400 MM DIA  | Metre | 2640                   | 2660     | 2690      | 2720      | 2770      | 2810      |
|        | 450 MM DIA  | Metre | 2800                   | 2810     | 2840      | 2890      | 2960      | 3020      |
|        | 500 MM DIA  | Metre | 3030                   | 3040     | 3060      | 3120      | 3180      | 3270      |
|        | 600 MM DIA  | Metre | 3480                   | 3500     | 3530      | 3630      | 3740      | 3850      |
|        | 700 MM DIA  | Metre | 4270                   | 4280     | 4340      | 4430      | 4580      | 4690      |
|        | 800 MM DIA  | Metre | 5030                   | 5070     | 5190      | 5300      | 5500      | 5670      |
|        | 900 MM DIA  | Metre | 5830                   | 5860     | 5980      | 6210      | 6440      | 6850      |
|        | 1000 MM DIA   | Metre | 6840                   | 6880     | 7060      | 7320      | 7650      | 8020      |
|        | 1100 MM DIA   | Metre | 7760                   | 7850     | 8050      | 8470      | 8800      | 9200      |
|        | 1200 MM DIA   | Metre | 8600                   | 8720     | 9150      | 9550      | 10360     | 10850     |
|        | 1300 MM DIA   | Metre | 9740                   | 10260    | 10790     | 11330     | 12250     | 13320     |
|        | 1400 MM DIA   | Metre | 11110                  | 11710    | 12340     | 13340     | 14340     | 15080     |
|        | 1500 MM DIA   | Metre | 12950                  | 13660    | 14370     | 15520     | 16620     | 17460     |
|        | 1600 MM DIA   | Metre | 14570                  | 15380    | 16190     | 18230     | 18800     | 19750     |
|        | 1700 MM DIA NEW ITEM  | Metre | 16040                  | 16740    | 17580     | 19660     | 21790     | 22910     |
|        | 1800 MM DIA NEW ITEM  | Metre | 17410                  | 18480    | 19410     | 21260     | 23560     | 24780     |
|        | 1900 MM DIA NEW ITEM  | Metre | 18600                  | 19580    | 21200     | 22380     | 24270     | 27120     |
|        | 2000 MM DIA NEW ITEM  | Metre | 20430                  | 21660    | 22710     | 24870     | 28210     | 30400     |

|          |   |         |      |      |      |      |      |      |
|----------|---|---------|------|------|------|------|------|------|
| <b>2</b> | <b>Cost of laying jointing, testing to Hydrostatic field test pressure including cost of rubber rings, cost of transportation of water and emptying pipe line after completion of field testing etc.</b>  |         |      |      |      |      |      |      |
|          | 350 MM DIA  | Metre   | 132  | 132  | 132  | 132  | 132  | 132  |
|          | 400 MM DIA  | Metre   | 143  | 143  | 143  | 143  | 143  | 143  |
|          | 450 MM DIA  | Metre   | 165  | 165  | 165  | 165  | 165  | 165  |
|          | 500 MM DIA  | Metre   | 176  | 176  | 176  | 176  | 176  | 176  |
|          | 600 MM DIA  | Metre   | 215  | 215  | 215  | 215  | 215  | 215  |
|          | 700 MM DIA  | Metre   | 253  | 253  | 253  | 253  | 253  | 253  |
|          | 800 MM DIA  | Metre   | 286  | 286  | 286  | 286  | 286  | 286  |
|          | 900 MM DIA  | Metre   | 314  | 314  | 314  | 314  | 314  | 314  |
|          | 1000 MM IA  | Metre   | 363  | 363  | 363  | 363  | 363  | 363  |
|          | 1100 MM IA  | Metre   | 407  | 407  | 407  | 407  | 407  | 407  |
|          | 1200 MMDIA  | Metre   | 451  | 451  | 451  | 451  | 451  | 451  |
|          | 1300 MM DIA   | Metre   | 512  | 512  | 512  | 512  | 512  | 512  |
|          | 1400 MM DIA   | Metre   | 578  | 578  | 578  | 578  | 578  | 578  |
|          | 1500 MM DIA   | Metre   | 627  | 627  | 627  | 627  | 627  | 627  |
|          | 1600 MM DIA   | Metre   | 704  | 704  | 704  | 704  | 704  | 704  |
|          | 1700 MM DIA NEW ITEM  | Metre   | 765  | 765  | 765  | 765  | 765  | 765  |
|          | 1800 MM DIA NEW ITEM  | Metre   | 810  | 810  | 810  | 810  | 810  | 810  |
|          | 1900 MM DIA NEW ITEM  | Metre   | 855  | 855  | 855  | 855  | 855  | 855  |
|          | 2000 MM DIA NEW ITEM  | Metre   | 900  | 900  | 900  | 900  | 900  | 900  |
| <b>3</b> | <b>CONVEYANCE OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPIES AND ACCESSORIES including loading at Factory, un-loading at site and stacking for the following sizes.(Minimum distance of 100 KM to be considered if the distance is less by 100 KM from factory to site)</b> |         |      |      |      |      |      |      |
|          | 350 MM DIA  | PerKM/M | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
|          | 400 MM DIA  | PerKM/M | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
|          | 450 MM DIA  | PerKM/M | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
|          | 500 MM DIA  | PerKM/M | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |

|   |   |          |        |        |        |        |        |        |
|---|---|----------|--------|--------|--------|--------|--------|--------|
|   | 600 MM DIA  | PerKM/M  | 1.35   | 1.35   | 1.35   | 1.35   | 1.35   | 1.35   |
|   | 700 MM DIA  | PerKM/M  | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   |
|   | 800 MM DIA  | PerKM/M  | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   |
|   | 900 MM DIA  | PerKM/M  | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   | 2.25   |
|   | 1000 MM DIA   | PerKM/M  | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   |
|   | 1100 MM DIA   | PerKM/M  | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   |
|   | 1200 MM DIA   | PerKM/M  | 6.80   | 6.80   | 6.80   | 6.80   | 6.80   | 6.80   |
|   | 1300 MM DIA   | PerKM/M  | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   |
|   | 1400 MM DIA   | PerKM/M  | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   |
|   | 1500 MM DIA   | PerKM/M  | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   | 6.90   |
|   | 1600 MM DIA   | PerKM/M  | 7.80   | 7.80   | 7.80   | 7.80   | 7.80   | 7.80   |
|   | 1700 MM DIA NEW<br>ITEM   | PerKM/M  | 7.80   | 7.80   | 7.80   | 7.80   | 7.80   | 7.80   |
|   | 1800 MM DIA NEW<br>ITEM   | PerKM/M  | 8.00   | 8.00   | 8.00   | 8.00   | 8.00   | 8.00   |
|   | 1900 MM DIA NEW<br>ITEM   | PerKM/M  | 8.30   | 8.30   | 8.30   | 8.30   | 8.30   | 8.30   |
|   | 2000 MM DIA NEW<br>ITEM   | PerKM/M  | 8.30   | 8.30   | 8.30   | 8.30   | 8.30   | 8.30   |
| 4 | <b>Cost of Machine end pair (Socket+Spigot) for providing MS Specials on PSC Pipelines excluding Cost of MS Special including cost and conveyance to site etc., complete.</b> |          |        |        |        |        |        |        |
|   | 350 MM DIA  | Per Pair | 9,350  | 9,350  | 9,350  | 9,350  | 9,350  | 9,350  |
|   | 400 MM DIA  | Per Pair | 10,725 | 10,725 | 10,725 | 10,725 | 10,725 | 10,725 |
|   | 450 MM DIA  | Per Pair | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 | 12,100 |
|   | 500 MM DIA  | Per Pair | 13,475 | 13,475 | 13,475 | 13,475 | 13,475 | 13,475 |
|   | 600 MM DIA  | Per Pair | 16,170 | 16,170 | 16,170 | 16,170 | 16,170 | 16,170 |
|   | 700 MM DIA  | Per Pair | 18,920 | 18,920 | 18,920 | 18,920 | 18,920 | 18,920 |
|   | 800 MM DIA  | Per Pair | 21,670 | 21,670 | 21,670 | 21,670 | 21,670 | 21,670 |

|          |  |             |        |                          |             |        |        |        |
|----------|--|-------------|--------|--------------------------|-------------|--------|--------|--------|
|          | 900 MM DIA   | Per Pair    | 24,420 | 24,420                   | 24,420      | 24,420 | 24,420 | 24,420 |
|          | 1000 MM DIA  | Per Pair    | 26,950 | 26,950                   | 26,950      | 26,950 | 26,950 | 26,950 |
|          | 1100 MM DIA  | Per Pair    | 29,700 | 29,700                   | 29,700      | 29,700 | 29,700 | 29,700 |
|          | 1200 MM DIA  | Per Pair    | 32,450 | 32,450                   | 32,450      | 32,450 | 32,450 | 32,450 |
|          | 1300 MM DIA  | Per Pair    | 34,980 | 34,980                   | 34,980      | 34,980 | 34,980 | 34,980 |
|          | 1400 MM DIA  | Per Pair    | 41,250 | 41,250                   | 41,250      | 41,250 | 41,250 | 41,250 |
|          | 1500 MM DIA  | Per Pair    | 48,400 | 48,400                   | 48,400      | 48,400 | 48,400 | 48,400 |
|          | 1600 MM DIA  | Per Pair    | 53,900 | 53,900                   | 53,900      | 53,900 | 53,900 | 53,900 |
|          | 1700 MM DIA  | Per Pair    | 60,480 | 60,480                   | 60,480      | 60,480 | 60,480 | 60,480 |
|          | 1800 MM DIA  | Per Pair    | 69,120 | 69,120                   | 69,120      | 69,120 | 69,120 | 69,120 |
|          | 1900 MM DIA  | Per Pair    | 79,920 | 79,920                   | 79,920      | 79,920 | 79,920 | 79,920 |
|          | 2000 MM DIA  | Per Pair    | 96,120 | 96,120                   | 96,120      | 96,120 | 96,120 | 96,120 |
| <b>5</b> | <b>Cost of MS Flanges including cost of Bolts, Nuts, Rubber Packing etc., complete and flange thickness confirming to IS:7322-1985 and flange dimensions confirming to IS:1538-1993 excluding cost of MS Specials including cost and conveyance to site, VAT etc., complete.</b> |             |        |                          |             |        |        |        |
|          | Diameter and thickness   | Unit        | Rate   | Diameter and thickness   | Unit        | Rate   |        |        |
|          | 80 mm DIA x 15 mm thick  | Each Flange | 605    | 500 mm DIA x 20 mm thick | Each Flange | 6,116  |        |        |
|          | 100 mm DIA x 15 mm thick   | Each Flange | 825    | 600 mm DIA x 20 mm thick | Each Flange | 7,700  |        |        |
|          | 125 mm DIA x 15 mm thick   | Each Flange | 990    | 700 mm DIA x 25 mm thick | Each Flange | 10,890 |        |        |
|          | 150 mm DIA x 15 mm thick   | Each Flange | 1,320  | 750 mm DIA x 25 mm thick | Each Flange | 11,990 |        |        |
|          | 200 mm DIA x 15 mm thick   | Each Flange | 1,650  | 800 mm DIA x 25 mm thick | Each Flange | 13,420 |        |        |
|          | 250 mm DIA x 15 mm thick   | Each Flange | 2,145  | 900 mm DIA x 25 mm thick | Each Flange | 15,400 |        |        |
|          | 300 mm DIA x 15 mm thick   | Each        | 2,431  | 1000 mm DIA x 25 mm      | Each        | 18,150 |        |        |

|  |                          |                    |       |                           |                    |        |
|--|--------------------------|--------------------|-------|---------------------------|--------------------|--------|
|  |                          | <b>Flange</b>      |       | thick                     | <b>Flange</b>      |        |
|  | 350 mm DIA x 18 mm thick | <b>Each Flange</b> | 3,542 | 1050 mm DIA x 25 mm thick | <b>Each Flange</b> | 19,228 |
|  | 400 mm DIA x 18 mm thick | <b>Each Flange</b> | 4,422 | 1100 mm DIA x 25 mm thick | <b>Each Flange</b> | 20,790 |
|  | 450 mm DIA x 18 mm thick | <b>Each Flange</b> | 5,137 | 1200 mm DIA x 32 mm thick | <b>Each Flange</b> | 27,610 |

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.51,000/-MT (Basic+ CED+ST & freight). and cement price of Rs.3,700/- per MT (including all taxes and freight)

The rates may be revised depending upon the increase/decrease in the cost of HT wire and cement. as per the following method. The cost of HT wire may be obtained from reputed firms like SAIL/TATA/ SS Ltd. etc.,

Revised Cost = Cost as per the above table + R1 + R2.

R1 = Variation (increase / decrease ) in cost (Rs. per metre ) due to change in the cost of HT Wire  $= (H2 - H1) / 1000 \times Wh$ .

R2 = Variation (increase / decrease ) in cost (Rs. per metre ) due to change in the cost of Cement  $= (C2 - C1) / 1000 \times Wc$ .

H1 = Rs. 51,000/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3700/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh = Weight of HT Wire required (Kg.) per metre of pipe.

Wc = Weight of Cement required (Kg.) per metre of pipe.

The rates for MS flanges are considering landed price of MS Plates of Rs.40,000/- per MT. Price variation to be released on actual weight of flange.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

**12. S.S. RATES FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES**

| Sl No. | Description   |       |                        |          |          |           |           |           |           |           |           |
|--------|---|-------|------------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1      | 2   |       |                        |          |          |           |           |           |           |           |           |
| 1      | <b>PRE-STRESSED (CYLINDER TYPE ) CONCRETE PIPES CONFORMING TO IS 784/2001 @ Ex-factory Cost of pipes, excluding transportation, laying, jointing, testing, Bends, Tees, Specials, taxes &amp; duties Etc.</b> |       |                        |          |          |           |           |           |           |           |           |
|        | Size  | Unit  | S.S Rates for 2010-11. |          |          |           |           |           |           |           |           |
|        |   |       | 4 Kg/cm2               | 6 Kg/cm2 | 8 Kg/cm2 | 10 Kg/cm2 | 12 Kg/cm2 | 14 Kg/cm2 | 16 Kg/cm2 | 18 Kg/cm2 | 20 Kg/cm2 |
|        | 400 MM DIA  | Meter | 4550                   | 4550     | 4550     | 4550      | 4570      | 4610      | 4680      | 4750      | 4800      |
|        | 450 MM DIA  | Meter | 4940                   | 4940     | 4940     | 4960      | 5010      | 5070      | 5160      | 5220      | 5290      |
|        | 500 MM DIA  | Meter | 5400                   | 5400     | 5410     | 5570      | 5530      | 5610      | 5680      | 5790      | 5870      |
|        | 600 MM DIA  | Meter | 6410                   | 6450     | 6520     | 6620      | 6710      | 6800      | 6940      | 7070      | 7200      |
|        | 700 MM DIA  | Meter | 7390                   | 7490     | 7610     | 7740      | 7860      | 7980      | 8130      | 8320      | 8460      |
|        | 800 MM DIA  | Meter | 8660                   | 8800     | 8970     | 9140      | 9290      | 9450      | 9640      | 9850      | 10100     |
|        | 900 MM DIA  | Meter | 10240                  | 10420    | 10630    | 10840     | 11050     | 11240     | 11510     | 11780     | 12050     |
|        | 1000 MM DIA   | Meter | 11850                  | 12090    | 12340    | 12600     | 12860     | 13090     | 13410     | 13740     | 14080     |
|        | 1100 MM DIA   | Meter | 13124                  | 13408    | 13715    | 14011     | 14317     | 14591     | 14941     | 15313     | 16123     |
|        | 1200 MM DIA   | Meter | 14853                  | 15183    | 15544    | 15905     | 16277     | 16605     | 17010     | 17821     | 18400     |
|        | 1300 MM DIA   | Meter | 16498                  | 16904    | 17319    | 17746     | 18174     | 18557     | 19520     | 20040     | 20697     |
|        | 1400 MM DIA   | Meter | 18070                  | 18540    | 19032    | 19525     | 20018     | 20981     | 21583     | 22201     | 23572     |
|        | 1500 MM DIA   | Meter | 19761                  | 20280    | 20799    | 21318     | 22396     | 22981     | 23875     | 25213     | 23143     |
|        | 1600 MM DIA   | Meter | 22287                  | 22861    | 23447    | 24551     | 25225     | 25898     | 27566     | 28306     | 29023     |
|        | 1700 MM DIA   | Meter | 23984                  | 24647    | 25364    | 26624     | 27386     | 28799     | 30080     | 30887     | 31649     |

|          |  |       |         |         |         |         |         |         |         |         |         |
|----------|--|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|          | 1800 MM DIA  | Meter | 26260   | 26959   | 28333   | 29187   | 30018   | 31569   | 32933   | 33897   | 34851   |
|          | 1900 MM DIA  | Meter | 30698   | 31496   | 33025   | 33948   | 35572   | 36587   | 38123   | 39193   | 40199   |
|          | 2000 MM DIA  | Meter | 32759   | 34272   | 35299   | 36359   | 38214   | 39330   | 41063   | 42289   | 43382   |
| <b>2</b> | <b>Cost of laying jointing, testing to Hydrostatic field test pressure including cost of cost of site welding and fixing of Polypropylene Diapher cloth, cost of transportation of water and emptying pipe line after completion of field testing etc.</b> |       |         |         |         |         |         |         |         |         |         |
|          | 400 MM DIA   | Meter | 291.00  | 291.00  | 291.00  | 291.00  | 291.00  | 291.00  | 291.00  | 291.00  | 291.00  |
|          | 450 MM DIA   | Meter | 343.00  | 343.00  | 343.00  | 343.00  | 343.00  | 343.00  | 343.00  | 343.00  | 343.00  |
|          | 500 MM DIA   | Meter | 374.00  | 374.00  | 374.00  | 374.00  | 374.00  | 374.00  | 374.00  | 374.00  | 374.00  |
|          | 600 MM DIA   | Meter | 437.00  | 437.00  | 437.00  | 437.00  | 437.00  | 437.00  | 437.00  | 437.00  | 437.00  |
|          | 700 MM DIA   | Meter | 499.00  | 499.00  | 499.00  | 499.00  | 499.00  | 499.00  | 499.00  | 499.00  | 499.00  |
|          | 800 MM DIA   | Meter | 572.00  | 572.00  | 572.00  | 572.00  | 572.00  | 572.00  | 572.00  | 572.00  | 572.00  |
|          | 900 MM DIA   | Meter | 645.00  | 645.00  | 645.00  | 645.00  | 645.00  | 645.00  | 645.00  | 645.00  | 645.00  |
|          | 1000 MM DIA  | Meter | 707.00  | 707.00  | 707.00  | 707.00  | 707.00  | 707.00  | 707.00  | 707.00  | 707.00  |
|          | 1100 MM DIA  | Meter | 801.00  | 801.00  | 801.00  | 801.00  | 801.00  | 801.00  | 801.00  | 801.00  | 801.00  |
|          | 1200 MM DIA  | Meter | 874.00  | 874.00  | 874.00  | 874.00  | 874.00  | 874.00  | 874.00  | 874.00  | 874.00  |
|          | 1300 MM DIA  | Meter | 936.00  | 936.00  | 936.00  | 936.00  | 936.00  | 936.00  | 936.00  | 936.00  | 936.00  |
|          | 1400 MM DIA  | Meter | 1030.00 | 1030.00 | 1030.00 | 1030.00 | 1030.00 | 1030.00 | 1030.00 | 1030.00 | 1030.00 |
|          | 1500 MM DIA  | Meter | 1144.00 | 1144.00 | 1144.00 | 1144.00 | 1144.00 | 1144.00 | 1144.00 | 1144.00 | 1144.00 |
|          | 1600 MM DIA  | Meter | 1238.00 | 1238.00 | 1238.00 | 1238.00 | 1238.00 | 1238.00 | 1238.00 | 1238.00 | 1238.00 |
|          | 1700 MM DIA  | Meter | 1394.00 | 1394.00 | 1394.00 | 1394.00 | 1394.00 | 1394.00 | 1394.00 | 1394.00 | 1394.00 |
|          | 1800 MM DIA  | Meter | 1477.00 | 1477.00 | 1477.00 | 1477.00 | 1477.00 | 1477.00 | 1477.00 | 1477.00 | 1477.00 |

|          |  |          |         |         |         |         |         |         |         |         |         |
|----------|--|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|          | 1900 MM DIA  | Meter    | 1612.00 | 1612.00 | 1612.00 | 1612.00 | 1612.00 | 1612.00 | 1612.00 | 1612.00 | 1612.00 |
|          | 2000 MM DIA  | Meter    | 1716.00 | 1716.00 | 1716.00 | 1716.00 | 1716.00 | 1716.00 | 1716.00 | 1716.00 | 1716.00 |
| <b>3</b> | <b>CONVEYANCE OF PRE-STRES-SED (CYLINDER TYPE) CONCRETE PIPE AND ACCESSORIES including loading at Factory, un-loading at site and stacking for the following sizes. (Minimum distance of 100 KM to be considered if the distance is less by 100 KM from factory to site)</b> |          |         |         |         |         |         |         |         |         |         |
|          | 400 MM DIA   | Per KM/M | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    |
|          | 450 MM DIA   | Per KM/M | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    | 0.90    |
|          | 500 MM DIA   | Per KM/M | 1.10    | 1.10    | 1.10    | 1.10    | 1.10    | 1.10    | 1.10    | 1.10    | 1.10    |
|          | 600 MM DIA   | Per KM/M | 1.30    | 1.30    | 1.30    | 1.30    | 1.30    | 1.30    | 1.30    | 1.30    | 1.30    |
|          | 700 MM DIA   | Per KM/M | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    |
|          | 800 MM DIA   | Per KM/M | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    |
|          | 900 MM DIA   | Per KM/M | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    | 2.20    |
|          | 1000 MM DIA  | Per KM/M | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    |
|          | 1100 MM DIA  | Per KM/M | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    | 3.40    |
|          | 1200 MM DIA  | Per KM/M | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    |
|          | 1300 MM DIA  | Per KM/M | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    |
|          | 1400 MM DIA  | Per KM/M | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    |
|          | 1500 MM DIA  | Per KM/M | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    |
|          | 1600 MM DIA  | Per KM/M | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    | 6.70    |



|  |                |             |      |      |      |      |      |      |      |      |      |
|--|----------------|-------------|------|------|------|------|------|------|------|------|------|
|  | 1700 MM<br>DIA | Per<br>KM/M | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 |
|  | 1800 MM<br>DIA | Per<br>KM/M | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 |
|  | 1900 MM<br>DIA | Per<br>KM/M | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 |
|  | 2000 MM<br>DIA | Per<br>KM/M | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 |

**Note:** The rates of PCCP pipes which were incorporated in the SSR are based on the following raw materials cost.

HT Wire: - Rs.51,000/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.42,500/- (including all taxes & freight)

Cement Cost Rs. 3,700/- per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table + R1 + R2 + R3.

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HT Wire =  $(H2 - H1) / 1000 \times W_h$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HR Coil =  $(R2 - R1) / 1000 \times W_r$ .

R3 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times W_c$ .

H1 = Rs. 51,000/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 42,500/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 3,700/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

W<sub>h</sub> = Weight of HT Wire required (Kg.) per metre of pipe. W<sub>c</sub> = Weight of Cement required (Kg.) per metre of pipe.

W<sub>r</sub> = Weight of HR Coil required (kg) per metre of pipe.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

### 13. S.S. RATES FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES

| Sl. No. | Description   |       |                             |                          |                       |                       |                       |                       |                       |                          |                          |                          |
|---------|---|-------|-----------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------|--------------------------|--------------------------|
| 1       | 2   |       |                             |                          |                       |                       |                       |                       |                       |                          |                          |                          |
| 1       | <b>BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES CONFORMING TO IS 15155 - 2002, Ex-factory excluding transportation, taxes and duties etc., for Bar wrapped steel cylindrical pipes.</b>   |       |                             |                          |                       |                       |                       |                       |                       |                          |                          |                          |
|         | Size  | Unit  | Rs.                         | Rs.                      | Rs.                   | Rs.                   | Rs.                   | Rs.                   | Rs.                   | Rs.                      | Rs.                      | Rs.                      |
|         |   |       | 4 -12<br>Kg/cm <sup>2</sup> | 14<br>Kg/cm <sup>2</sup> | 16 Kg/cm <sup>2</sup> | 18 Kg/cm <sup>2</sup> | 20 Kg/cm <sup>2</sup> | 22 Kg/cm <sup>2</sup> | 24 Kg/cm <sup>2</sup> | 26<br>Kg/cm <sup>2</sup> | 28<br>Kg/cm <sup>2</sup> | 30<br>Kg/cm <sup>2</sup> |
|         | 250 MM DIA  | Meter | 2679                        | 2679                     | 2679                  | 2679                  | 2679                  | 2679                  | 2681                  | 2713                     | 2736                     | 2886                     |
|         | 300 MM DIA  | Meter | 3011                        | 3011                     | 3011                  | 3011                  | 3011                  | 3047                  | 3124                  | 3239                     | 3296                     | 3476                     |
|         | 350 MM DIA  | Meter | 3654                        | 3654                     | 3654                  | 3671                  | 3701                  | 3734                  | 3825                  | 3956                     | 4068                     | 4258                     |
|         | 400 MM DIA  | Meter | 4006                        | 4006                     | 4026                  | 4074                  | 4111                  | 4298                  | 4464                  | 4632                     | 4787                     | 5427                     |
|         | 450 MM DIA  | Meter | 4411                        | 4425                     | 4481                  | 4524                  | 4740                  | 4932                  | 5153                  | 5350                     | 5563                     | 6063                     |
|         | 500 MM DIA  | Meter | 4933                        | 4982                     | 5044                  | 5278                  | 5533                  | 5794                  | 6072                  | 6309                     | 6724                     | 7174                     |
|         | 600 MM DIA  | Meter | 6509                        | 6588                     | 6669                  | 7047                  | 7419                  | 7728                  | 8132                  | 8502                     | 9025                     | 9515                     |
|         | 700 MM DIA  | Meter | 7848                        | 8018                     | 8549                  | 9065                  | 9579                  | 10114                 | 10821                 | 11237                    | 11788                    | 12588                    |
|         | 800 MM DIA  | Meter | 8903                        | 9585                     | 10244                 | 10890                 | 11566                 | 12460                 | 13169                 | 14186                    | 14865                    | 15855                    |
|         | 900 MM DIA  | Meter | 11020                       | 11438                    | 12287                 | 13124                 | 13936                 | 14581                 | 16098                 | 17200                    | 18023                    | 19313                    |
|         | 1000 MM DIA   | Meter | 12423                       | 13542                    | 14511                 | 15477                 | 16493                 | 17994                 | 19661                 | 21071                    | 22167                    | 23837                    |
|         | 1100 MM DIA   | Meter | 17883                       | 18204                    | 18325                 | 20086                 | 22082                 | 23494                 | 26013                 | 27426                    | 29236                    | 31916                    |
|         | 1200 MM DIA   | Meter | 19779                       | 20340                    | 21018                 | 23145                 | 25419                 | 27500                 | 29851                 | 30979                    | 34670                    | 38320                    |
| 2       | <b>Cost of laying jointing, testing to Hydrostatic field test pressure including cost of site welding and fixing of Polypropylene Diaher cloth, cost of transportation of water and emptying pipe line after completion of field testing.</b> |       |                             |                          |                       |                       |                       |                       |                       |                          |                          |                          |
|         | 250 MM DIA  | Meter | 219                         | 219                      | 219                   | 219                   | 219                   | 219                   | 219                   | 219                      | 219                      | 219                      |
|         | 300 MM DIA  | Meter | 257                         | 257                      | 257                   | 257                   | 257                   | 257                   | 257                   | 257                      | 257                      | 257                      |
|         | 350 MM DIA  | Meter | 305                         | 305                      | 305                   | 305                   | 305                   | 305                   | 305                   | 305                      | 305                      | 305                      |
|         | 400 MM DIA  | Meter | 341                         | 341                      | 341                   | 341                   | 341                   | 341                   | 341                   | 341                      | 341                      | 341                      |
|         | 450 MM DIA  | Meter | 341                         | 341                      | 341                   | 341                   | 341                   | 341                   | 341                   | 341                      | 341                      | 341                      |
|         | 500 MM DIA  | Meter | 427                         | 427                      | 427                   | 427                   | 427                   | 427                   | 427                   | 427                      | 427                      | 427                      |
|         | 600 MM DIA  | Meter | 524                         | 524                      | 524                   | 524                   | 524                   | 524                   | 524                   | 524                      | 524                      | 524                      |
|         | 700 MM DIA  | Meter | 610                         | 610                      | 610                   | 610                   | 610                   | 610                   | 610                   | 610                      | 610                      | 610                      |

|          |   |          |      |      |      |      |      |      |      |      |      |      |
|----------|---|----------|------|------|------|------|------|------|------|------|------|------|
|          | 800 MM DIA  | Meter    | 695  | 695  | 695  | 695  | 695  | 695  | 695  | 695  | 695  | 695  |
|          | 900 MM DIA  | Meter    | 817  | 817  | 817  | 817  | 817  | 817  | 817  | 817  | 817  | 817  |
|          | 1000 MM DIA   | Meter    | 903  | 903  | 903  | 903  | 903  | 903  | 903  | 903  | 903  | 903  |
|          | 1100 MM DIA   | Meter    | 1061 | 1061 | 1072 | 1072 | 1093 | 1093 | 1114 | 1114 | 1114 | 1114 |
|          | 1200 MM DIA   | Meter    | 1188 | 1188 | 1230 | 1230 | 1251 | 1251 | 1294 | 1294 | 1294 | 1379 |
| <b>3</b> | <b>Conveyance of Bar Wrapped steel Cylindrical (BWSC) pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (Minimum distance of 100 KM to be considered if the distance is less by 100 KM from factory to site)</b> |          |      |      |      |      |      |      |      |      |      |      |
|          | 250 MM DIA  | Per KM/M | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
|          | 300 MM DIA  | Per KM/M | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
|          | 350 MM DIA  | Per KM/M | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
|          | 400 MM DIA  | Per KM/M | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
|          | 450 MM DIA  | Per KM/M | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
|          | 500 MM DIA  | Per KM/M | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
|          | 600 MM DIA  | Per KM/M | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 |
|          | 700 MM DIA  | Per KM/M | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 |
|          | 800 MM DIA  | Per KM/M | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 |
|          | 900 MM DIA  | Per KM/M | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 |
|          | 1000 MM DIA   | Per KM/M | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 |
|          | 1100 MM DIA   | Per KM/M | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 | 5.46 |
|          | 1200 MM DIA   | Per KM/M | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 |

**Note:** The above rates of BWSC pipes are based on the following raw materials' cost.

HR Plates - Rs.42,500/- per MT (Basic+CED+ST & freight)

Wire rods - Rs.40,500/- per MT (Basic+CED+ST & freight)

Cement Cost Rs. 3,700/-per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost =Cost as per the above table +R1+R2+R3.

R1= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of HR Plate =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of wire rods =(W2-W1)/1000 X Ww.

R3= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of Cement =(C2-C1)/1000 X Wc .

H1 = Rs. 42,500/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 40,500/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

C1 = Rs. 3,700/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh=Weight of HR Plate required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

Ww = Weight of wire rods required (kg) per metre of pipe.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**14. S.S. RATES FOR M.S.SPIRAL PIPES (2010-11)**

| Sl.No. | Description  | Unit  | Thickness in mm | Rate (Rs.) |
|--------|--|-------|-----------------|------------|
| 1      | 2  | 3     | 4               | 5          |
| 1      | <b>Manufacture, Supply and Delivery of Spirally welded M.S Pipes Conforming to IS 3589/2001 including in lining with Cement mortar (1:2) 12mm thick using 4 numbers of 6mm dia M.S. Rings at each end of the pipe and Out coating cement mortar (1:3) 30mm thick by shotcreting or Guniting duly providing wire mesh of size 50x50x3mm including cost of all materials, Labour charges, Transportation to anywhere in AP, but excluding taxes &amp; duties, etc.</b> |       |                 |            |
|        | 500 MM DIA   | Meter | 8.00            | 7002       |
|        | 600 MM DIA   | Meter | 8.00            | 8342       |
|        | 700 MM DIA   | Meter | 8.00            | 9731       |
|        | 700 MM DIA   | Meter | 10.00           | 12366      |
|        | 800 MM DIA   | Meter | 8.00            | 11173      |
|        | 800 MM DIA   | Meter | 10.00           | 13067      |
|        | 800 MM DIA NEW ITEM  | Meter | 12.00           | 15718      |
|        | 900 MM DIA   | Meter | 8.00            | 12458      |
|        | 900 MM DIA   | Meter | 10.00           | 14586      |
|        | 900 MM DIA   | Meter | 12.00           | 16718      |
|        | 1000 MM DIA  | Meter | 8.00            | 14007      |
|        | 1000 MM DIA  | Meter | 10.00           | 16362      |
|        | 1000 MM DIA  | Meter | 12.00           | 18636      |
|        | 1000 MM DIA NEW ITEM   | Meter | 14.00           | 21784      |
|        | 1100 MM DIA  | Meter | 8.00            | 16706      |
|        | 1100 MM DIA  | Meter | 10.00           | 19296      |
|        | 1100 MM DIA  | Meter | 12.00           | 21889      |
|        | 1100 MM DIA NEW ITEM   | Meter | 14.00           | 25582      |
|        | 1100 MM DIA NEW ITEM   | Meter | 16.00           | 29288      |
|        | 1200 MM DIA  | Meter | 8.00            | 18988      |
|        | 1200 MM DIA  | Meter | 10.00           | 21803      |
|        | 1200 MM DIA  | Meter | 12.00           | 24630      |
|        | 1200 MM DIA  | Meter | 14.00           | 27469      |
|        | 1200 MM DIA NEW ITEM   | Meter | 16.00           | 31444      |
|        | 1200 MM DIA NEW ITEM   | Meter | 18.00           | 35431      |
|        | 1300 MM DIA  | Meter | 8.00            | 20745      |
|        | 1300 MM DIA  | Meter | 10.00           | 23791      |
|        | 1300 MM DIA  | Meter | 12.00           | 26849      |
|        | 1300 MM DIA  | Meter | 14.00           | 29915      |
|        | 1300 MM DIA  | Meter | 16.00           | 32995      |
|        | 1300 MM DIA NEW ITEM   | Meter | 18.00           | 37175      |

## Public Health Items

|  |                      |       |       |       |
|--|----------------------|-------|-------|-------|
|  | 1300 MM DIA NEW ITEM | Meter | 20.00 | 41367 |
|  |                      |       |       |       |
|  | 1400 MM DIA          | Meter | 8.00  | 22030 |
|  | 1400 MM DIA          | Meter | 10.00 | 25306 |
|  | 1400 MM DIA          | Meter | 12.00 | 28595 |
|  | 1400 MM DIA          | Meter | 14.00 | 31895 |
|  | 1400 MM DIA          | Meter | 16.00 | 35202 |
|  | 1400 MM DIA NEW ITEM | Meter | 18.00 | 39657 |
|  | 1400 MM DIA NEW ITEM | Meter | 20.00 | 44124 |
|  | 1400 MM DIA NEW ITEM | Meter | 22.00 | 48605 |
|  |                      |       |       |       |
|  | 1500 MM DIA          | Meter | 8.00  | 23577 |
|  | 1500 MM DIA          | Meter | 10.00 | 27089 |
|  | 1500 MM DIA          | Meter | 12.00 | 30603 |
|  | 1500 MM DIA          | Meter | 14.00 | 34134 |
|  | 1500 MM DIA          | Meter | 16.00 | 37672 |
|  | 1500 MM DIA          | Meter | 18.00 | 41216 |
|  | 1500 MM DIA NEW ITEM | Meter | 20.00 | 45855 |
|  | 1500 MM DIA NEW ITEM | Meter | 22.00 | 50505 |
|  | 1500 MM DIA NEW ITEM | Meter | 24.00 | 55169 |
|  |                      |       |       |       |
|  | 1600 MM DIA          | Meter | 8.00  | 24877 |
|  | 1600 MM DIA          | Meter | 10.00 | 28599 |
|  | 1600 MM DIA          | Meter | 12.00 | 32349 |
|  | 1600 MM DIA          | Meter | 14.00 | 36111 |
|  | 1600 MM DIA          | Meter | 16.00 | 39879 |
|  | 1600 MM DIA          | Meter | 18.00 | 43654 |
|  | 1600 MM DIA NEW ITEM | Meter | 20.00 | 48563 |
|  | 1600 MM DIA NEW ITEM | Meter | 22.00 | 53485 |
|  | 1600 MM DIA NEW ITEM | Meter | 24.00 | 58418 |
|  | 1600 MM DIA NEW ITEM | Meter | 26.00 | 63362 |
|  |                      |       |       |       |
|  | 1700 MM DIA          | Meter | 8.00  | 26408 |
|  | 1700 MM DIA          | Meter | 10.00 | 30377 |
|  | 1700 MM DIA          | Meter | 12.00 | 34357 |
|  | 1700 MM DIA          | Meter | 14.00 | 38347 |
|  | 1700 MM DIA          | Meter | 16.00 | 42344 |
|  | 1700 MM DIA          | Meter | 18.00 | 46355 |
|  | 1700 MM DIA NEW ITEM | Meter | 20.00 | 51564 |
|  | 1700 MM DIA NEW ITEM | Meter | 22.00 | 56786 |
|  | 1700 MM DIA NEW ITEM | Meter | 24.00 | 62019 |
|  | 1700 MM DIA NEW ITEM | Meter | 26.00 | 67265 |
|  | 1700 MM DIA NEW ITEM | Meter | 28.00 | 72521 |
|  |                      |       |       |       |
|  | 1800 MM DIA          | Meter | 8.00  | 27955 |
|  | 1800 MM DIA          | Meter | 10.00 | 32154 |
|  | 1800 MM DIA          | Meter | 12.00 | 36366 |
|  | 1800 MM DIA          | Meter | 14.00 | 40589 |
|  | 1800 MM DIA          | Meter | 16.00 | 44813 |
|  | 1800 MM DIA          | Meter | 18.00 | 49055 |
|  | 1800 MM DIA          | Meter | 20.00 | 53304 |
|  | 1800 MM DIA NEW ITEM | Meter | 22.00 | 58698 |
|  | 1800 MM DIA NEW ITEM | Meter | 24.00 | 64104 |
|  | 1800 MM DIA NEW ITEM | Meter | 26.00 | 69520 |
|  | 1800 MM DIA NEW ITEM | Meter | 28.00 | 74949 |
|  | 1800 MM DIA NEW ITEM | Meter | 30.00 | 80389 |

| Public Health Items |                      |       |       |        |
|---------------------|----------------------|-------|-------|--------|
|                     |                      |       |       |        |
|                     | 1900 MM DIA NEW ITEM | Meter | 8.00  | 28253  |
|                     | 1900 MM DIA          | Meter | 10.00 | 33670  |
|                     | 1900 MM DIA          | Meter | 12.00 | 38108  |
|                     | 1900 MM DIA          | Meter | 14.00 | 42560  |
|                     | 1900 MM DIA          | Meter | 16.00 | 47021  |
|                     | 1900 MM DIA          | Meter | 18.00 | 51493  |
|                     | 1900 MM DIA          | Meter | 20.00 | 55969  |
|                     | 1900 MM DIA NEW ITEM | Meter | 22.00 | 61629  |
|                     | 1900 MM DIA NEW ITEM | Meter | 24.00 | 67301  |
|                     | 1900 MM DIA NEW ITEM | Meter | 26.00 | 72985  |
|                     | 1900 MM DIA NEW ITEM | Meter | 28.00 | 78679  |
|                     | 1900 MM DIA NEW ITEM | Meter | 30.00 | 84386  |
|                     | 1900 MM DIA NEW ITEM | Meter | 32.00 | 90103  |
|                     |                      |       |       |        |
|                     | 2000 MM DIA NEW ITEM | Meter | 8.00  | 29527  |
|                     | 2000 MM DIA          | Meter | 10.00 | 35185  |
|                     | 2000 MM DIA          | Meter | 12.00 | 39857  |
|                     | 2000 MM DIA          | Meter | 14.00 | 44537  |
|                     | 2000 MM DIA          | Meter | 16.00 | 49228  |
|                     | 2000 MM DIA          | Meter | 18.00 | 53931  |
|                     | 2000 MM DIA          | Meter | 20.00 | 58636  |
|                     | 2000 MM DIA          | Meter | 22.00 | 63315  |
|                     | 2000 MM DIA NEW ITEM | Meter | 24.00 | 69139  |
|                     | 2000 MM DIA NEW ITEM | Meter | 26.00 | 74973  |
|                     | 2000 MM DIA NEW ITEM | Meter | 28.00 | 80819  |
|                     | 2000 MM DIA NEW ITEM | Meter | 30.00 | 86676  |
|                     | 2000 MM DIA NEW ITEM | Meter | 32.00 | 92545  |
|                     | 2000 MM DIA NEW ITEM | Meter | 34.00 | 98424  |
|                     |                      |       |       |        |
|                     | 2100 MM DIA NEW ITEM | Meter | 8.00  | 31020  |
|                     | 2100 MM DIA          | Meter | 10.00 | 36962  |
|                     | 2100 MM DIA          | Meter | 12.00 | 41866  |
|                     | 2100 MM DIA          | Meter | 14.00 | 46766  |
|                     | 2100 MM DIA          | Meter | 16.00 | 51698  |
|                     | 2100 MM DIA          | Meter | 18.00 | 56629  |
|                     | 2100 MM DIA          | Meter | 20.00 | 61567  |
|                     | 2100 MM DIA          | Meter | 22.00 | 66519  |
|                     | 2100 MM DIA NEW ITEM | Meter | 24.00 | 72634  |
|                     | 2100 MM DIA NEW ITEM | Meter | 26.00 | 78760  |
|                     | 2100 MM DIA NEW ITEM | Meter | 28.00 | 84898  |
|                     | 2100 MM DIA NEW ITEM | Meter | 30.00 | 91046  |
|                     | 2100 MM DIA NEW ITEM | Meter | 32.00 | 97206  |
|                     | 2100 MM DIA NEW ITEM | Meter | 34.00 | 103377 |
|                     | 2100 MM DIA NEW ITEM | Meter | 36.00 | 109559 |
|                     |                      |       |       |        |
|                     | 2200 MM DIA          | Meter | 8.00  | 32292  |
|                     | 2200 MM DIA          | Meter | 10.00 | 38478  |
|                     | 2200 MM DIA          | Meter | 12.00 | 43612  |
|                     | 2200 MM DIA          | Meter | 14.00 | 48752  |
|                     | 2200 MM DIA          | Meter | 16.00 | 53905  |
|                     | 2200 MM DIA          | Meter | 18.00 | 59064  |
|                     | 2200 MM DIA          | Meter | 20.00 | 64235  |
|                     | 2200 MM DIA          | Meter | 22.00 | 69418  |
|                     | 2200 MM DIA NEW ITEM | Meter | 26.00 | 82186  |
|                     | 2200 MM DIA NEW ITEM | Meter | 28.00 | 88586  |

## Public Health Items

|  |                      |       |       |        |
|--|----------------------|-------|-------|--------|
|  | 2200 MM DIA NEW ITEM | Meter | 30.00 | 94998  |
|  | 2200 MM DIA NEW ITEM | Meter | 32.00 | 101421 |
|  | 2200 MM DIA NEW ITEM | Meter | 34.00 | 107856 |
|  | 2200 MM DIA NEW ITEM | Meter | 36.00 | 114301 |
|  | 2200 MM DIA NEW ITEM | Meter | 38.00 | 120758 |
|  |                      |       |       |        |
|  | 2300 MM DIA          | Meter | 10.00 | 40255  |
|  | 2300 MM DIA          | Meter | 12.00 | 45620  |
|  | 2300 MM DIA          | Meter | 16.00 | 56369  |
|  | 2300 MM DIA          | Meter | 18.00 | 61764  |
|  | 2300 MM DIA          | Meter | 20.00 | 67166  |
|  | 2300 MM DIA          | Meter | 22.00 | 72575  |
|  | 2300 MM DIA NEW ITEM | Meter | 26.00 | 85917  |
|  | 2300 MM DIA NEW ITEM | Meter | 28.00 | 92604  |
|  | 2300 MM DIA NEW ITEM | Meter | 30.00 | 99304  |
|  | 2300 MM DIA NEW ITEM | Meter | 32.00 | 106014 |
|  | 2300 MM DIA NEW ITEM | Meter | 34.00 | 112735 |
|  | 2300 MM DIA NEW ITEM | Meter | 36.00 | 119468 |
|  | 2300 MM DIA NEW ITEM | Meter | 38.00 | 126212 |
|  | 2300 MM DIA NEW ITEM | Meter | 40.00 | 132967 |
|  |                      |       |       |        |
|  | 2400MM DIA           | Meter | 10.00 | 41768  |
|  | 2400 MM DIA          | Meter | 12.00 | 47364  |
|  | 2400 MM DIA          | Meter | 14.00 | 53856  |
|  | 2400 MM DIA          | Meter | 16.00 | 59471  |
|  | 2400 MM DIA          | Meter | 18.00 | 65092  |
|  | 2400 MM DIA          | Meter | 20.00 | 70725  |
|  | 2400 MM DIA          | Meter | 22.00 | 77173  |
|  | 2400 MM DIA NEW ITEM | Meter | 26.00 | 83245  |
|  | 2400 MM DIA NEW ITEM | Meter | 28.00 | 89264  |
|  | 2400 MM DIA NEW ITEM | Meter | 30.00 | 95292  |
|  | 2400 MM DIA NEW ITEM | Meter | 32.00 | 101331 |
|  | 2400 MM DIA NEW ITEM | Meter | 34.00 | 107379 |
|  | 2400 MM DIA NEW ITEM | Meter | 36.00 | 113437 |
|  | 2400 MM DIA NEW ITEM | Meter | 38.00 | 119504 |
|  | 2400 MM DIA NEW ITEM | Meter | 40.00 | 119601 |
|  | 2400 MM DIA NEW ITEM | Meter | 42.00 | 125683 |
|  |                      |       |       |        |
|  | 2500 MM DIA          | Meter | 10.00 | 43548  |
|  | 2500 MM DIA          | Meter | 14.00 | 55207  |
|  | 2500 MM DIA          | Meter | 16.00 | 61051  |
|  | 2500 MM DIA          | Meter | 18.00 | 66903  |
|  | 2500 MM DIA          | Meter | 20.00 | 72766  |
|  | 2500 MM DIA          | Meter | 22.00 | 78636  |
|  | 2500 MM DIA NEW ITEM | Meter | 28.00 | 100318 |
|  | 2500 MM DIA NEW ITEM | Meter | 30.00 | 107567 |
|  | 2500 MM DIA NEW ITEM | Meter | 34.00 | 122101 |
|  | 2500 MM DIA NEW ITEM | Meter | 36.00 | 129384 |
|  | 2500 MM DIA NEW ITEM | Meter | 38.00 | 136679 |
|  | 2500 MM DIA NEW ITEM | Meter | 40.00 | 143985 |
|  | 2500 MM DIA NEW ITEM | Meter | 42.00 | 151302 |
|  | 2500 MM DIA NEW ITEM | Meter | 44.00 | 158630 |
|  | 2500 MM DIA NEW ITEM | Meter | 46.00 | 165970 |
|  |                      |       |       |        |
|  | 2600 MM DIA          | Meter | 12.00 | 51115  |



| Public Health Items |  |       |       |         |
|---------------------|--|-------|-------|---------|
|                     | 2600 MM DIA  | Meter | 14.00 | 57183   |
|                     | 2600 MM DIA  | Meter | 16.00 | 63259   |
|                     | 2600 MM DIA  | Meter | 18.00 | 69341   |
|                     | 2600 MM DIA  | Meter | 20.00 | 75435   |
|                     | 2600 MM DIA  | Meter | 22.00 | 81535   |
|                     | 2600 MM DIA NEW ITEM   | Meter | 32.00 | 119045  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 34.00 | 126580  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 36.00 | 134127  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 38.00 | 141685  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 40.00 | 149254  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 42.00 | 156834  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 44.00 | 164426  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 46.00 | 172028  |
|                     | 2600 MM DIA NEW ITEM   | Meter | 48.00 | 179643  |
|                     |  |       |       |         |
| 2                   | <b>Cost of Laying, Jointing, Hydrostatic filed test pressure, including cost of site welding jointing materials and cost of transportation of water including emptying pipe line after completion of filed testing</b> |       |       |         |
|                     | 400 MM DIA   | Meter |       | 372.00  |
|                     | 500 MM DIA   | Meter |       | 465.00  |
|                     | 600 MM DIA   | Meter |       | 571.00  |
|                     | 700 MM DIA   | Meter |       | 664.00  |
|                     | 800 MM DIA   | Meter |       | 757.00  |
|                     | 900 MM DIA   | Meter |       | 890.00  |
|                     | 1000 MM DIA  | Meter |       | 983.00  |
|                     | 1100 MM DIA  | Meter |       | 1155.00 |
|                     | 1200 MM DIA  | Meter |       | 1294.00 |
|                     | 1300 MM DIA  | Meter |       | 1487.00 |
|                     | 1400 MM DIA  | Meter |       | 1711.00 |
|                     | 1500 MM DIA  | Meter |       | 1967.00 |
|                     | 1600 MM DIA  | Meter |       | 2262.00 |
|                     | 1700 MM DIA  | Meter |       | 2600.00 |
|                     | 1800 MM DIA  | Meter |       | 2991.00 |
|                     | 1900 MM DIA  | Meter |       | 3440.00 |
|                     | 2000 MM DIA  | Meter |       | 3956.00 |
|                     | 2100 MM DIA  | Meter |       | 4550.00 |
|                     | 2200 MM DIA  | Meter |       | 5232.00 |
|                     | 2300 MM DIA  | Meter |       | 6017.00 |
|                     | 2400 MM DIA  | Meter |       | 6919.00 |
|                     | 2500 MM DIA  | Meter |       | 7957.00 |
|                     | 2600 MM DIA  | Meter |       | 9151.00 |

The above rates of MS Spiral pipes are based on the following raw materials cost.

MS Plates = Rs 40,000/- Per MT.

The rates may be revised depending upon the increase/decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table "R<sub>1</sub>".

R<sub>1</sub>= Variation (Increase/Decrease) in cost (Rs. Per meter) due to change in cost of M.S/ Plates = (M<sub>2</sub>-M<sub>1</sub>)/1000 x W<sub>m</sub>

M<sub>1</sub>= Rs 40,000/-

M<sub>2</sub>=Cost of MS Plates (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

W<sub>m</sub>=Weight of MS Plates required (Kg) per meter of pipe

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

**15. S.S. RATES FOR GLASS FIBRE REINFORCED PLASTIC (GRP) PIPES**

| Sl.No.   | Description  |             |                                    |              |              |               |               |
|----------|--|-------------|------------------------------------|--------------|--------------|---------------|---------------|
| <b>1</b> | <b>2</b>   |             |                                    |              |              |               |               |
| <b>1</b> | <b>GLASSFIBRE REINFORCED PLASTIC (GRP) PIPES CONFORMING TO IS 12709 - 1994 Stiffness class 124 Kpa including transportation to any where in A.P. with jointing materials i.e., Reka couplings, Rubber Gaskets etc., for jointing pipes including cost of specials, loading, un-loading and stacking etc., complete but excluding Central Excise duty and to be added sale tax.</b> |             |                                    |              |              |               |               |
|          | <b>Size</b>  | <b>Unit</b> | <b>S.S. Rates for 2010-11. Rs.</b> |              |              |               |               |
|          |  |             | <b>3 Bar</b>                       | <b>6 Bar</b> | <b>9 Bar</b> | <b>12 Bar</b> | <b>15 Bar</b> |
|          | 300 MM DIA   | Metre       | 2526                               | 2595         | 2668         | 2739          | 2858          |
|          | 350 MM DIA   | Metre       | 2710                               | 2749         | 2834         | 2912          | 3046          |
|          | 400 MM DIA   | Metre       | 3019                               | 3153         | 3269         | 3421          | 3555          |
|          | 450 MM DIA   | Metre       | 3542                               | 3678         | 3879         | 4070          | 4302          |
|          | 500 MM DIA   | Metre       | 4034                               | 4197         | 4436         | 4715          | 4984          |
|          | 600 MM DIA   | Metre       | 5126                               | 5339         | 5663         | 6240          | 6530          |
|          | 700 MM DIA   | Metre       | 6148                               | 6427         | 7208         | 7862          | 8458          |
|          | 800 MM DIA   | Metre       | 7524                               | 7880         | 8507         | 9255          | 9993          |
|          | 900 MM DIA   | Metre       | 9406                               | 9806         | 10653        | 11554         | 12512         |
|          | 1000 MM DIA  | Metre       | 11273                              | 11792        | 12684        | 13834         | 14911         |
| <b>2</b> | <b>Cost of laying jointing, testing to Hydrostatic field test pressure including cost of transportation of water and emptying pipe line after completion of field testing.</b>   |             |                                    |              |              |               |               |
|          | <b>Size</b>  | <b>Unit</b> | <b>S.S. Rates for 2010-11. Rs.</b> |              |              |               |               |
|          |  |             | <b>3 Bar</b>                       | <b>6 Bar</b> | <b>9 Bar</b> | <b>12 Bar</b> | <b>15 Bar</b> |
|          | 300 MM DIA   | Metre       | 97.00                              | 97.00        | 97.00        | 97.00         | 97.00         |
|          | 350 mm dia   | Metre       | 145.00                             | 145.00       | 145.00       | 145.00        | 145.00        |
|          | 400 mm dia   | Metre       | 218.00                             | 218.00       | 218.00       | 218.00        | 218.00        |
|          | 450 mm dia   | Metre       | 266.00                             | 266.00       | 266.00       | 266.00        | 266.00        |
|          | 500 mm dia   | Metre       | 339.00                             | 339.00       | 339.00       | 339.00        | 339.00        |
|          | 600 mm dia   | Metre       | 363.00                             | 363.00       | 363.00       | 363.00        | 363.00        |
|          | 700 mm dia   | Metre       | 411.00                             | 411.00       | 411.00       | 411.00        | 411.00        |
|          | 800 mm dia   | Metre       | 484.00                             | 484.00       | 484.00       | 484.00        | 484.00        |
|          | 900 mm dia   | Metre       | 532.00                             | 532.00       | 532.00       | 532.00        | 532.00        |
|          | 1000 mm dia  | Meter       | 617.00                             | 617.00       | 617.00       | 617.00        | 617.00        |

**Note:** 1) The material component is 50% of total cost.

2) The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

3) The cost of other specials like tees, reducers etc with flange will be charge @4 times per meter cost of pipe.

4) The cost of other special like plain ended tees, reducers etc will be charge @ 2.50 times per meter cost of pipe.

The methodology adopted for rates is as follows:

Percentage of raw materials in the finished product of the pipe

1) Hoop Glass Fibre Rovings H% (35%)

2) Chop Glass C% (40%) 3) Resin R% (25%)

The cost of variation in Raw materials are:

1) Variation in cost of Hoop Glass : h%

2) Variation in cost of Chop Glass : c%

3) Variation in cost of Resin : r%

The percentage of variation in cost of pipe allowed is

$(H \times h + C \times c + R \times r)/100$

The above raw materials rates are obtained from the principal manufacturers.

The rates of raw materials are:

1) Hoop Glass Fibre Rovings - Rs.82.00/kg (Excluding CED&ST)

2) Chop Glass - Rs.102.00/kg (Excluding CED&ST)

3) Resin - Rs.95.00/kg (Excluding CED&ST)

**16. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2010-11. (PE - 80 Grade)**

| Sl.No | Description   | 2.5<br>kg/<br>sqcm | 4.0<br>kg/<br>sqcm |
|-------|---|--------------------|--------------------|
| 1     | 2   | 3                  | 4                  |
|       | <b>Manufacture, supply, &amp; delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. ( Supply upto 90 mm dia in coil &amp; above 90 mm dia straight length in 6 M.)</b> |                    |                    |
|       | <b>Rate per Meter</b>   |                    |                    |
|       | OD 20 mm  | -                  | -                  |
|       | OD 25 mm  | -                  | -                  |
|       | OD 32 mm  | -                  | -                  |
|       | OD 40 mm  | -                  | 33.00              |
|       | OD 50 mm  | -                  | 48.00              |
|       | OD 63 mm  | 43.00              | 66.00              |
|       | OD 75 mm  | 67.00              | 91.00              |
|       | OD 90 mm  | 90.00              | 131.00             |
|       | OD 110 mm   | 126.00             | 195.00             |
|       | OD 125 mm   | 159.00             | 252.00             |
|       | OD 140 mm   | 207.00             | 311.00             |
|       | OD 160 mm   | 268.00             | 407.00             |
|       | OD 180 mm   | 333.00             | 514.00             |
|       | OD 200 mm   | 409.00             | 629.00             |
|       | OD 225 mm   | 533.00             | 822.00             |
|       | OD 250 mm   | 657.00             | 1017.00            |
|       | OD 280 mm   | 825.00             | 1268.00            |
|       | OD 315 mm   | 1036.00            | 1611.00            |
|       | OD 355 mm   | 1261.00            | 1947.00            |
|       | OD 400 mm   | 1635.00            | 2523.00            |
|       | OD 450 mm   | 2064.00            | 3205.00            |
|       | OD 500 mm   | 2543.00            | 3939.00            |
|       | OD 560 mm   | 3141.00            | 4861.00            |
|       | OD 630 mm   | 3973.00            | 6148.00            |
|       | OD 710 mm   | 5054.00            | 7813.00            |
|       | OD 800 mm   | 6405.00            | 9890.00            |
|       | OD 900 mm   | 8073.00            | 12531.00           |
|       | OD 1000 mm  | 9952.00            | 15431.00           |

**Note:**

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 80 grade Rs.77,680/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

**17. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2010-11. (PE - 100 Grade)**

| Sl. No   | Description  | 6.0 kg/sqcm | 8.0 kg/sqcm | 10.0 kg/sqcm | 12.5 kg/sqcm | 16.0 kg/sqcm |
|----------|--|-------------|-------------|--------------|--------------|--------------|
| 1        | 2  | 3           | 4           | 5            | 6            | 7            |
| <b>I</b> | <b>Manufacture, supply, &amp; delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to any where in A.P,excluding excise duty, sale tax and specials etc., complete. ( Supply upto 90 mm dia in coil &amp; above 90 mm dia straight length in 6 M.)</b> |             |             |              |              |              |
|          | <b>Rate per Meter</b>  |             |             |              |              |              |
|          | OD 25 mm   |             |             |              |              | 32.00        |
|          | OD 32 mm   |             |             | 34.00        | 45.00        | 53.00        |
|          | OD 40 mm   |             | 44.00       | 52.00        | 68.00        | 82.00        |
|          | OD 50 mm   | 54.00       | 67.00       | 81.00        | 106.00       | 127.00       |
|          | OD 63 mm   | 81.00       | 103.00      | 125.00       | 167.00       | 200.00       |
|          | OD 75 mm   | 115.00      | 146.00      | 176.00       | 238.00       | 284.00       |
|          | OD 90 mm   | 164.00      | 209.00      | 250.00       | 338.00       | 410.00       |
|          | OD 110 mm  | 246.00      | 312.00      | 372.00       | 508.00       | 609.00       |
|          | OD 125 mm  | 314.00      | 402.00      | 482.00       | 652.00       | 786.00       |
|          | OD 140 mm  | 394.00      | 503.00      | 604.00       | 820.00       | 986.00       |
|          | OD 160 mm  | 515.00      | 655.00      | 787.00       | 1068.00      | 1284.00      |
|          | OD 180 mm  | 648.00      | 830.00      | 995.00       | 1349.00      | 1625.00      |
|          | OD 200 mm  | 802.00      | 1024.00     | 1227.00      | 1671.00      | 2001.00      |
|          | OD 225 mm  | 1038.00     | 1326.00     | 1595.00      | 2106.00      | 2537.00      |
|          | OD 250 mm  | 1278.00     | 1640.00     | 1969.00      | 2602.00      | 3126.00      |
|          | OD 280 mm  | 1602.00     | 2052.00     | 2466.00      | 3271.00      | 3924.00      |
|          | OD 315 mm  | 2031.00     | 2599.00     | 3120.00      | 4123.00      | 4961.00      |
|          | OD 355 mm  | 2545.00     | 3251.00     | 3907.00      | 5244.00      | 6294.00      |
|          | OD 400 mm  | 3359.00     | 4286.00     | 5138.00      | 6790.00      | 8146.00      |
|          | OD 450 mm  | 4164.00     | 5334.00     | 6410.00      | 8582.00      | 10278.00     |
|          | OD 500 mm  | 5148.00     | 6576.00     | 7904.00      | 10604.00     | 12657.00     |
|          | OD 560 mm  | 5912.00     | 7555.00     | 9017.00      | 11687.00     |              |
|          | OD 630 mm  | 7449.00     | 9559.00     | 11422.00     | 13698.00     |              |
|          | OD 710 mm  | 9481.00     | 12112.00    | 14508.00     |              |              |
|          | OD 800 mm  | 12032.00    | 15379.00    | 18486.00     |              |              |
|          | OD 900 mm  | 15243.00    | 19469.00    |              |              |              |
|          | OD 1000 mm   | 18796.00    |             |              |              |              |

**Note:-**

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 100 grade Rs.78,680/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

**18. S.S. RATES FOR H.D.P.E FITTINGS FOR THE YEAR 2010-11.**

|                  |  |                      |
|------------------|--|----------------------|
|                  | <b>Manufacture, supply, &amp; delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete</b> |                      |
| <b>I<br/>(a)</b> | <b>PIPE ENDS LONG NECK</b>   | <b>Rate per Each</b> |
|                  | OD 50 mm   | 58.00                |
|                  | OD 63 mm   | 72.00                |
|                  | OD 75 mm   | 86.00                |
|                  | OD 90 mm   | 112.00               |
|                  | OD 110 mm  | 154.00               |
|                  | OD 125 mm  | 277.00               |
|                  | OD 140 mm  | 280.00               |
|                  | OD 160 mm  | 390.00               |
|                  | OD 180 mm  | 553.00               |
|                  | OD 200 mm  | 713.00               |
|                  | OD 225 mm  | 817.00               |
|                  | OD 250 mm  | 956.00               |
|                  | OD 280 mm  | 1070.00              |
|                  | OD 315 mm  | 1234.00              |
|                  | OD 355 mm  | 2577.00              |
|                  | OD 400 mm  | 3434.00              |
|                  | OD 450 mm  | 5714.00              |
|                  | OD 500 mm  | 6360.00              |
| <b>(b)</b>       | <b>MS FLANGES</b>  | <b>Rate per Each</b> |
|                  | OD 50 mm   | 103.00               |
|                  | OD 63 mm   | 132.00               |
|                  | OD 75 mm   | 165.00               |
|                  | OD 90 mm   | 177.00               |
|                  | OD 110 mm  | 187.00               |
|                  | OD 125 mm  | 257.00               |
|                  | OD 140 mm  | 278.00               |
|                  | OD 160 mm  | 365.00               |
|                  | OD 180 mm  | 516.00               |
|                  | OD 200 mm  | 668.00               |
|                  | OD 225 mm  | 835.00               |
|                  | OD 250 mm  | 986.00               |
|                  | OD 280 mm  | 1119.00              |
|                  | OD 315 mm  | 1317.00              |
|                  | OD 355 mm  | 2229.00              |

|            |                    |                      |
|------------|--------------------|----------------------|
|            | OD 400 mm          | 2765.00              |
|            | OD 450 mm          | 3609.00              |
|            | OD 500 mm          | 4134.00              |
| <b>(c)</b> | <b>END CAPS</b>    | <b>Rate per Each</b> |
|            | OD 50 mm           | 38.00                |
|            | OD 63 mm           | 46.00                |
|            | OD 75 mm           | 59.00                |
|            | OD 90 mm           | 76.00                |
|            | OD 110 mm          | 88.00                |
|            | OD 125 mm          | 122.00               |
|            | OD 140 mm          | 142.00               |
|            | OD 160 mm          | 216.00               |
|            | OD 180 mm          | 351.00               |
|            | OD 200 mm          | 384.00               |
|            | OD 225 mm          | 400.00               |
|            | OD 250 mm          | 568.00               |
|            | OD 280 mm          | 581.00               |
|            | OD 315 mm          | 797.00               |
|            | OD 355 mm          | 1229.00              |
|            | OD 400 mm          | 2146.00              |
|            | OD 450 mm          | 3451.00              |
|            | OD 500 mm          | 6360.00              |
| <b>(d)</b> | <b>REDUCERS</b>    | <b>Rate per Each</b> |
|            | OD 50 mm x 63 mm   | 53.00                |
|            | OD 63 mm x 75 mm   | 77.00                |
|            | OD 75 mm x 90 mm   | 126.00               |
|            | OD 90 mm x 110 mm  | 174.00               |
|            | OD 110 mm x 125 mm | 265.00               |
|            | OD 125 mm x 140 mm | 366.00               |
|            | OD 140 mm x 160 mm | 511.00               |
|            | OD 160 mm x 180 mm | 709.00               |
|            | OD 180 mm x 200 mm | 915.00               |
|            | OD 200 mm x 225 mm | 1124.00              |
|            | OD 225 mm x 250 mm | 1531.00              |
|            | OD 250 mm x 280 mm | 2175.00              |
|            | OD 280 mm x 315 mm | 3075.00              |
|            | OD 315 mm x 355 mm | 3526.00              |
|            | OD 355 mm x 400 mm | 4977.00              |
|            | OD 400 mm x 450 mm | 5162.00              |

|            |                    |                      |
|------------|--------------------|----------------------|
|            | OD 450 mm x 500 mm | 6221.00              |
| <b>(e)</b> | <b>TEES</b>        | <b>Rate per Each</b> |
|            | OD 50 mm           | 74.00                |
|            | OD 63 mm           | 116.00               |
|            | OD 75 mm           | 141.00               |
|            | OD 90 mm           | 248.00               |
|            | OD 110 mm          | 293.00               |
|            | OD 125 mm          | 442.00               |
|            | OD 140 mm          | 611.00               |
|            | OD 160 mm          | 1051.00              |
|            | OD 180 mm          | 1427.00              |
|            | OD 200 mm          | 1964.00              |
|            | OD 225 mm          | 2788.00              |
|            | OD 250 mm          | 3817.00              |
|            | OD 280 mm          | 5345.00              |
|            | OD 315 mm          | 7619.00              |
|            | OD 355 mm          | 10864.00             |
|            | OD 400 mm          | 15911.00             |
|            | OD 450 mm          | 22602.00             |
|            | OD 500 mm          | 31040.00             |
| <b>(f)</b> | <b>BENDS</b>       | <b>Rate per Each</b> |
|            | OD 50 mm           | 46.00                |
|            | OD 63 mm           | 103.00               |
|            | OD 75 mm           | 133.00               |
|            | OD 90 mm           | 229.00               |
|            | OD 110 mm          | 302.00               |
|            | OD 125 mm          | 445.00               |
|            | OD 140 mm          | 586.00               |
|            | OD 160 mm          | 874.00               |
|            | OD 180 mm          | 1255.00              |
|            | OD 200 mm          | 1701.00              |
|            | OD 225 mm          | 2413.00              |
|            | OD 250 mm          | 3308.00              |
|            | OD 280 mm          | 4769.00              |
|            | OD 315 mm          | 6595.00              |
|            | OD 355 mm          | 9142.00              |
|            | OD 400 mm          | 13789.00             |
|            | OD 450 mm          | 20273.00             |
|            | OD 500 mm          | 27484.00             |



|           |   |                  |
|-----------|---|------------------|
| <b>II</b> | <b>Providing and fixing Electro fusion Ferrule Tapping Saddle confirming to prEN 12201-3, Manufactured from virgin resin of PE-80/PE-100 having blue/black colour using food grade compounded raw material with quality assurance certificate from quality agencies like DVGMB/KIWA/SPGN/WRC etc. for usage in drinking water system and having working pressure of 10 Bar. The cost shall include testing of all materials, labour all taxes (Central, State and Municipal), inspection charges, transportation upto site, transit insurance, loading, unloading, stacking, providing and fixing etc. complete as specified and directed</b> |                  |
|           | <b>SIZE</b>   | <b>Rate Each</b> |
|           | <b>(Main pipe outer diameter in mm &amp; Tapping size in Inches)</b>  | <b>Rs.</b>       |
|           | 63x1/2"   | 799.20           |
|           | 63 x3/4"  | 799.20           |
|           | 63 x1"  | 799.20           |
|           | 63 x1/2"  | 799.20           |
|           | 75 x1/2"  | 799.20           |
|           | 75 x3/4"  | 799.20           |
|           | 75 x1   | 799.20           |
|           | 90 x1/2"  | 799.20           |
|           | 90 x3/4"  | 799.20           |
|           | 90 x1"  | 799.20           |
|           | 90 x 1 1/4"   | 1036.80          |
|           | 90 x 1 1/2"   | 1036.80          |
|           | 90 x2"  | 1036.80          |
|           | 110x1/2"  | 799.20           |
|           | 110 x3/4"   | 799.20           |
|           | 110 x1"   | 799.20           |
|           | 110 x 1 1/4"  | 1036.80          |
|           | 110x1 1/2"  | 1036.80          |
|           | 110x2"  | 1036.80          |
|           | 160 x1/2"   | 799.20           |
|           | 160 x3/4"   | 799.20           |
|           | 160 x1"   | 799.20           |
|           | 160 x 1 1/4"  | 1132.80          |
|           | 160 x 1 1/2"  | 1132.80          |
|           | 160 x 2"  | 1132.80          |
|           | 200 x 1/2"  | 1128.00          |
|           | 200 x 3/4"  | 1128.00          |
|           | 200 x 1"  | 1128.00          |
|           | 200 x 1 1/4"  | 1632.00          |

## Public Health Items

|  |              |         |
|--|--------------|---------|
|  | 200 x 2"     | 1632.00 |
|  | 250 x 1/2"   | 1128.00 |
|  | 250 x 3/4"   | 1128.00 |
|  | 250 x 1"     | 1128.00 |
|  | 250 x 1 1/4" | 1632.00 |
|  | 250 x 1 1/2" | 1632.00 |
|  | 250 x 2"     | 1632.00 |
|  | 315 x 1/2"   | 1344.00 |
|  | 315 x 3/4"   | 1344.00 |
|  | 315x1"       | 1344.00 |
|  | 315x1 1/4"   | 1824.00 |
|  | 315x1 1/2"   | 1824.00 |
|  | 315x2"       | 1824.00 |

**19. S.S. RATES FOR PVC PIPES FOR THE YEAR 2010-11**

| Sl. No. | Description  | TEST PRESSURE           |                         |                       |                        |
|---------|--|-------------------------|-------------------------|-----------------------|------------------------|
|         |  | 2.5 Kgs/cm <sup>2</sup> | 4.0 Kgs/cm <sup>2</sup> | 6 Kgs/cm <sup>2</sup> | 10 Kgs/cm <sup>2</sup> |
| 1       | 2  | 3                       | 4                       | 5                     | 6                      |
| 1       | Manufacture, Supply and delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (third revision) with bell ends (Socket) as per specification in light Grey/Natural Ivory Grey/ Any other Color (except White) inclusive of transportation to the sub-divisional stores anywhere in AP excluding Excise duty and Sales Tax etc. |                         |                         |                       |                        |
|         | <b>DIA IN MM      Rate/Metre</b>   | <b>Rs.</b>              | <b>Rs.</b>              | <b>Rs.</b>            | <b>Rs.</b>             |
|         |  |                         |                         |                       |                        |
|         | 20   |                         |                         |                       | 10.00                  |
|         | 25   |                         |                         |                       | 16.00                  |
|         | 32   |                         |                         |                       | 25.00                  |
|         | 40   |                         |                         | 24.00                 | 38.00                  |
|         | 50   |                         |                         | 37.00                 | 59.00                  |
|         | 63   |                         | 39.00                   | 56.00                 | 87.00                  |
|         | 75   |                         | 57.00                   | 78.00                 | 124.00                 |
|         | 90   | 52.00                   | 79.00                   | 113.00                | 175.00                 |
|         | 110  | 78.00                   | 115.00                  | 163.00                | 263.00                 |
|         | 125  | 101.00                  | 149.00                  | 207.00                | 344.00                 |
|         | 140  | 123.00                  | 186.00                  | 268.00                | 424.00                 |
|         | 160  | 164.00                  | 246.00                  | 347.00                | 559.00                 |
|         | 180  | 206.00                  | 314.00                  | 448.00                | 715.00                 |
|         | 200  | 263.00                  | 382.00                  | 544.00                | 870.00                 |
|         | 225  | 338.00                  | 501.00                  | 724.00                | 1153.00                |
|         | 250  | 410.00                  | 585.00                  | 897.00                | 1412.00                |
|         | 280  | 526.00                  | 768.00                  | 1131.00               | 1788.00                |
|         | 315  | 663.00                  | 974.00                  | 1421.00               | 2256.00                |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is **Rs.55,950/- per MT (Basic rate, excluding CED)**

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

**20. S.S.RATES FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2010-11**

| Code No | Description   |                          |
|---------|---|--------------------------|
| 1       | 2   | 4                        |
|         | <b>Manufacture, supply, &amp; delivery of Unplasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage &amp; sewerage systemr conforming to IS 15328/2003) with solvent cement jointing as per specification inclusive of transportation to the Sub-Divisional stores any where in A.P, excluding Central Excise duty, Cess, &amp; VAT etc.,</b> | <b>S.S Rates 2010-11</b> |
|         | <b>Rate per Meter</b>   | <b>Rs.</b>               |
|         | <b>Pipe Series (S25)</b>  |                          |
|         | OD 110 mm   | -                        |
|         | OD 125 mm   | -                        |
|         | OD 160 mm   | 215.00                   |
|         | OD 200 mm   | 327.00                   |
|         | OD 250mm  | 507.00                   |
|         | OD 315 mm   | 800.00                   |
|         | OD 400 mm(New Item)   | 1189.00                  |
|         | OD 500 mm(New Item)   | 1855.00                  |
|         | OD 630 mm(New Item)   | 2930.00                  |
|         | <b>Pipe Series (S20)</b>  |                          |
|         | OD 110 mm   | -                        |
|         | OD 125 mm   | 167.00                   |
|         | OD 160 mm   | 266.00                   |
|         | OD 200 mm   | 404.00                   |
|         | OD 250mm  | 631.00                   |
|         | OD 315 mm   | 990.00                   |
|         | OD 400 mm(New Item)   | 1464.00                  |
|         | OD 500 mm(New Item)   | 2306.00                  |
|         | OD 630 mm(New Item)   | 2671.00                  |
|         | <b>Pipe Series (S16.5)</b>  |                          |
|         | OD 110 mm   | 147.00                   |
|         | OD 125 mm   | 198.00                   |
|         | OD 160 mm   | 309.00                   |
|         | OD 200 mm   | 480.00                   |
|         | OD 250mm  | 745.00                   |
|         | OD 315 mm   | 1176.00                  |
|         | OD 400 mm(New Item)   | 1737.00                  |
|         | OD 500 mm(New Item)   | 2727.00                  |
|         | OD 630 mm(New Item)   | 4349.00                  |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is **Rs.55,950/- per MT (Basic rate, excluding CED)**

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

**21. S.S. RATES FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2010-11**

| Code No | Description   |                          |
|---------|---|--------------------------|
| 1       | 2   | 4                        |
|         | Manufacture, supply, & delivery of unplasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage & sewerage systemr conforming to IS 15328/2003) <u>with Elastomeric Seal Ring Joints</u> (Ringtite PVC Pipes)as per specification inclusive of transportation to the Sub-Divisional stores any where in A.P, excluding Central Excise duty,Cess, & VAT etc., | <b>S.S Rates 2010-11</b> |
|         | Rate per Meter  | Rs.                      |
|         | <b>Pipe Series (S25)</b>  |                          |
|         | OD 110 mm   | -                        |
|         | OD 125 mm   | -                        |
|         | OD 160 mm   | 230.00                   |
|         | OD 200 mm   | 350.00                   |
|         | OD 250mm  | 543.00                   |
|         | OD 315 mm   | 855.00                   |
|         | <b>Pipe Series (S20)</b>  |                          |
|         | OD 110 mm   | -                        |
|         | OD 125 mm   | 180.00                   |
|         | OD 160 mm   | 284.00                   |
|         | OD 200 mm   | 430.00                   |
|         | OD 250mm  | 671.00                   |
|         | OD 315 mm   | 1053.00                  |
|         | <b>Pipe Series (S16.5)</b>  |                          |
|         | OD 110 mm   | 157.00                   |
|         | OD 125 mm   | 211.00                   |
|         | OD 160 mm   | 330.00                   |
|         | OD 200 mm   | 509.00                   |
|         | OD 250mm  | 791.00                   |
|         | OD 315 mm   | 1249.00                  |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is **Rs.55,950/- per MT (Basic rate, excluding CED)**

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

**22. S.S. RATES FOR CENTRIFUGALLY CAST (SPUN)IRON PRESSURE PIPES**

| Sl. No. | Description   | Unit        | S.S. Rates for 2010-11 |                     |                     |
|---------|---|-------------|------------------------|---------------------|---------------------|
| 1       | 2   | 3           | 4                      | 5                   | 6                   |
| I       | <b>SOCKET AND SPIGOT CENTRIFUGALLY CAST (SPUN) IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE CONFORMING TO SPECIFICATION NO: I..S 1536/1989 (THIRD REVISION) WITH Amdt. No: 1 &amp; 2 IN STANDARD LENGTHS OF 3.66 M, 4 M, 4.5M, 5 M, 5.5 M &amp; 6 M AND DETAILS GIVEN BELOW, SUITABLE EITHER FOR LEAD JOINTING OR RUBBER GASKET (PUSHON) JOINTING AT PURCHASERS OPTION AT EX-FACTORY EXCLUDING TRANSPORTATION, TAXES &amp; DUTIES.</b> |             | <b>LA Class (Rs)</b>   | <b>A Class (Rs)</b> | <b>B Class (Rs)</b> |
|         | <b>Nominal dia (in MM)</b>  |             |                        |                     |                     |
|         | 80  | Rmt         | 742.00                 | 805.00              | 865.00              |
|         | 100   | Rmt         | 902.00                 | 992.00              | 1059.00             |
|         | 125   | Rmt         | 1137.00                | 1242.00             | 1337.00             |
|         | 150   | Rmt         | 1376.00                | 1507.00             | 1623.00             |
|         | 200   | Rmt         | 2009.00                | 2180.00             | 2358.00             |
|         | 250   | Rmt         | 2706.00                | 2947.00             | 3188.00             |
|         | 300   | Rmt         | 3490.00                | 3816.00             | 4133.00             |
|         | 350   | Rmt         | 4466.00                | 4844.00             | 5254.00             |
|         | 400   | Rmt         | 5436.00                | 5941.00             | 6412.00             |
|         | 450   | Rmt         | 6579.00                | 7228.00             | 7796.00             |
|         | 500   | Rmt         | 7784.00                | 8478.00             | 9173.00             |
|         | 600   | Rmt         | 10290.00               | 11234.00            | 12168.00            |
|         | 700   | Rmt         | 13554.00               | 14808.00            | 15999.00            |
|         | 750   | Rmt         | 15181.00               | 16597.00            | 18005.00            |
|         | 800   | Rmt         | 16993.00               | 18515.00            | 20028.00            |
|         | 900   | Rmt         | 20708.00               | 25956.00            | 24482.00            |
|         | 1000  | Rmt         | 24878.00               | 27176.00            | 29373.00            |
|         | <b>Conveyance of Centrifugally Cast (Spun) Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)</b>  |             | <b>Class</b>           |                     |                     |
|         | <b>SIZE IN MM</b>   | <b>UNIT</b> | <b>LA</b>              | <b>A</b>            | <b>B</b>            |
|         | 100   | Per KM/RMT  | 0.20                   | 0.20                | 0.20                |
|         | 125   | Per KM/RMT  | 0.30                   | 0.30                | 0.30                |
|         | 150   | Per KM/RMT  | 0.30                   | 0.30                | 0.30                |
|         | 200   | Per KM/RMT  | 0.50                   | 0.50                | 0.50                |
|         | 250   | Per KM/RMT  | 0.60                   | 0.60                | 0.60                |
|         | 300   | Per KM/RMT  | 0.80                   | 0.90                | 0.90                |
|         | 350   | Per KM/RMT  | 1.10                   | 1.10                | 1.20                |

| Public Health Items |            |  |      |      |      |
|---------------------|------------|--|------|------|------|
| 400                 | Per KM/RMT |  | 1.30 | 1.30 | 1.40 |
| 450                 | Per KM/RMT |  | 1.50 | 1.60 | 1.70 |
| 500                 | Per KM/RMT |  | 1.80 | 1.90 | 2.00 |
| 600                 | Per KM/RMT |  | 1.70 | 1.80 | 1.90 |
| 700                 | Per KM/RMT |  | 1.80 | 1.90 | 2.00 |
| 750                 | Per KM/RMT |  | 3.00 | 3.20 | 3.40 |
| 800                 | Per KM/RMT |  | 5.10 | 5.10 | 5.10 |
| 900                 | Per KM/RMT |  | 5.10 | 5.10 | 5.10 |
| 1000                | Per KM/RMT |  | 5.10 | 5.10 | 5.10 |

**Note:**The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$$P2 = P1 + (R2 - R1) / 1000 * M * 1.0$$

Where

M= Weight of pipe in kg per metre.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT excluding CED&ST)) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of SSR =Rs. 25,000/-

**23.S.S. RATES FOR DUCTILE IRON PRESSURE PIPES**

| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>S.S. Rate for 2010-11</b> |           |
|----------------|--|-------------|------------------------------|-----------|
| <b>1</b>       | <b>2</b>   | <b>3</b>    | <b>4</b>                     | <b>5</b>  |
| <b>1</b>       | CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE WITH <b><u>SOCKET SPIGOT ENDS</u></b> CONFORMING TO I.S.: 8329/2000 IN STANDARD WORKING LENGTHS OF 4, 5 5.5 & 6 METER FOR CLASSIFICATION K9 & K7 SUITABLE FOR PUSH-ON-JOINT (RUBBER GASKET D JOINTING) WITH CEMENT MORTAR LINING INSIDE THE PIPES WITH OUTSIDE ZINC COATING. RATES ARE EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES. |             |                              |           |
|                | <b>Nominal Dia in mm</b>   | <b>Rmt</b>  | <b>K9</b>                    | <b>K7</b> |
|                | 100  | Rmt         | 997.00                       | 887.00    |
|                | 150  | Rmt         | 1474.00                      | 1194.00   |
|                | 200  | Rmt         | 1967.00                      | 1711.00   |
|                | 250  | Rmt         | 2581.00                      | 2296.00   |
|                | 300  | Rmt         | 3269.00                      | 2951.00   |
|                | 350  | Rmt         | 4075.00                      | 3713.00   |
|                | 400  | Rmt         | 4914.00                      | 4508.00   |
|                | 450  | Rmt         | 5880.00                      | 5424.00   |
|                | 500  | Rmt         | 6840.00                      | 6466.00   |
|                | 600  | Rmt         | 9021.00                      | 8604.00   |
|                | 700  | Rmt         | 11667.00                     | 11137.00  |
|                | 750  | Rmt         | 13092.00                     | 12479.00  |
|                | 800  | Rmt         | 14445.00                     | 13788.00  |
|                | 900  | Rmt         | 17619.00                     | 16824.00  |
|                | 1000   | Rmt         | 20884.00                     | 19940.00  |
| <b>2</b>       | CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE <b><u>WITH PLAIN ENDS</u></b> CONFORMING TO I.S.: 8329/2000 IN STANDARD WORKING LENGTHS OF 4, 5, 5.5 & 6 METER FOR CLASSIFICATION K9 & K7 WITH CEMENT MORTAR LINING INSIDE THE PIPES WITH OUTSIDE ZINC COATING. RATES ARE EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES.  |             |                              |           |
|                | <b>Nominal Dia in mm</b>   |             | <b>K9</b>                    | <b>K7</b> |
|                | 100  | Rmt         | 916.00                       | 755.00    |
|                | 150  | Rmt         | 1342.00                      | 1086.00   |
|                | 200  | Rmt         | 1825.00                      | 1546.00   |
|                | 250  | Rmt         | 2422.00                      | 2010.00   |
|                | 300  | Rmt         | 3065.00                      | 2648.00   |
|                | 350  | Rmt         | 3808.00                      | 3326.00   |
|                | 400  | Rmt         | 4590.00                      | 4027.00   |
|                | 450  | Rmt         | 5424.00                      | 4824.00   |
|                | 500  | Rmt         | 6480.00                      | 5743.00   |



|          |  |      |                       |                       |
|----------|--|------|-----------------------|-----------------------|
|          | 600  | Rmt  | 8358.00               | 7608.00               |
|          | 700  | Rmt  | 10603.00              | 10082.00              |
|          | 750  | Rmt  | 11880.00              | 11278.00              |
|          | 800  | Rmt  | 13116.00              | 12471.00              |
|          | 900  | Rmt  | 15861.00              | 15080.00              |
|          | 1000   | Rmt  | 18855.00              | 17928.00              |
| <b>3</b> | CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIES WITH <b>FLANGED (WELDED) ENDS</b> FOR WATER, GAS, SEWAGE CONFORMING TO I.S.: 8329/2000 IN STANDARD WORKING LENGTHS OF 1, 2, 3, 4, 5 Mts FOR CLASSIFICATION K9 WITH CEMENT MORTAR LINING INSIDE THE PIPES WITH OUTSIDE ZINC COATING. RATES ARE EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES. |      |                       |                       |
|          | <b>Nominal Dia in mm</b>   |      | <b>1.0 Mt. Length</b> | <b>2.0 Mt. Length</b> |
|          | 100  | Each | 3570.00               | 4635.00               |
|          | 150  | Each | 5043.00               | 6592.00               |
|          | 200  | Each | 6665.00               | 8776.00               |
|          | 250  | Each | 8700.00               | 11517.00              |
|          | 300  | Each | 10871.00              | 14427.00              |
|          | 350  | Each | 17040.00              | 21458.00              |
|          | 400  | Each | 21145.00              | 26484.00              |
|          | 450  | Each | 25539.00              | 31836.00              |
|          | 500  | Each | 30927.00              | 38322.00              |
|          | 600  | Each | 43781.00              | 53508.00              |
|          | 700  | Each | 52220.00              | 64562.00              |
|          | 800  | Each | 64374.00              | 79640.00              |
|          | 900  | Each | 76717.00              | 95176.00              |
|          | 1000   | Each | 98466.00              | 120409.00             |
|          |  |      | <b>3.0 Mt. Length</b> | <b>4.0 Mt. Length</b> |
|          | 100  | Each | 5701.00               | 6233.00               |
|          | 150  | Each | 8142.00               | 9031.00               |
|          | 200  | Each | 10890.00              | 12239.00              |
|          | 250  | Each | 14334.00              | 16167.00              |
|          | 300  | Each | 17981.00              | 20396.00              |
|          | 350  | Each | 25878.00              | 28327.00              |
|          | 400  | Each | 31822.00              | 34362.00              |
|          | 450  | Each | 38131.00              | 41040.00              |
|          | 500  | Each | 45719.00              | 49051.00              |
|          | 600  | Each | 63231.00              | 67179.00              |
|          | 700  | Each | 76904.00              | 82263.00              |
|          | 800  | Each | 94903.00              | 101612.00             |
|          | 900  | Each | 113636.00             | 121951.00             |
|          | 1000   | Each | 142352.00             | 151191.00             |

|          |  |             | <b>5.0 Mt. Length</b> |                                    |
|----------|--|-------------|-----------------------|------------------------------------|
|          | 100  | Each        | 7275.00               |                                    |
|          | 150  | Each        | 10569.00              |                                    |
|          | 200  | Each        | 14351.00              |                                    |
|          | 250  | Each        | 18980.00              |                                    |
|          | 300  | Each        | 23959.00              |                                    |
|          | 350  | Each        | 32744.00              |                                    |
|          | 400  | Each        | 39693.00              |                                    |
|          | 450  | Each        | 47332.00              |                                    |
|          | 500  | Each        | 56433.00              |                                    |
|          | 600  | Each        | 76882.00              |                                    |
|          | 700  | Each        | 94581.00              |                                    |
|          | 800  | Each        | 116846.00             |                                    |
|          | 900  | Each        | 144576.00             |                                    |
|          | 1000   | Each        | 173091.00             |                                    |
| <b>4</b> | <b>Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)</b> |             | <b>Class</b>          | <b>WELDED DOUBLE FLANGED PIPES</b> |
|          | <b>SIZE IN MM</b>  | <b>UNIT</b> | <b>K7</b>             | <b>K9</b>                          |
|          | 100  | Per KM/RMT  | 0.20                  | 0.30                               |
|          | 150  | Per KM/RMT  | 0.30                  | 0.40                               |
|          | 200  | Per KM/RMT  | 0.30                  | 0.60                               |
|          | 250  | Per KM/RMT  | 0.40                  | 0.80                               |
|          | 300  | Per KM/RMT  | 0.60                  | 1.00                               |
|          | 350  | Per KM/RMT  | 0.70                  | 1.20                               |
|          | 400  | Per KM/RMT  | 0.80                  | 1.40                               |
|          | 450  | Per KM/RMT  | 1.00                  | 1.70                               |
|          | 500  | Per KM/RMT  | 1.20                  | 2.00                               |
|          | 600  | Per KM/RMT  | 1.70                  | 2.60                               |
|          | 700  | Per KM/RMT  | 2.50                  | 3.80                               |
|          | 750  | Per KM/RMT  | 3.00                  | 4.60                               |
|          | 800  | Per KM/RMT  | 5.10                  | 7.60                               |
|          | 900  | Per KM/RMT  | 5.10                  | 7.60                               |
|          | 1000   | Per KM/RMT  | 5.10                  | 7.60                               |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$P2 = P1 + (R2 - R1) / 1000 * M * 0.96$ , Where

M = Weight of pipe in kg per metre as per I.S.8329-2000.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of SSR =Rs.25,000

**24. S.S. RATES FOR DUCTILE IRON FITTINGS**

| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> |        |
|----------------|---|-------------|--------|
| <b>1</b>       | <b>2</b>  | <b>3</b>    |        |
|                | <b>CENTRIFUGALLY CAST (SPUN) DUCTILE IRON FITTINGS CONFORMING TO IS:9523/2000 HAVING DIMENTIONS AS PER TABLE. THE RATES MENTIONED HERE UNDER ARE FOR FITTINGS, ZINC COATED EXTERNALLY WITH INSIDE MORTAR LINING (WITH FINISHING AS PER CLASS 13/IS 9523/2000) ( Ex-works) Excluding transportation, taxes and duties etc.</b> |             |        |
| <b>I</b>       | <b>DI double socket branch flange Tee</b>   |             |        |
|                | <b>Upto 500 x 500 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 x 500 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>II</b>      | <b>DI All Socket Tees</b>   |             |        |
|                | <b>Upto 300 x 300 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 300 x 300 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>III</b>     | <b>DI Double socket Tapers (Reducer)</b>  |             |        |
|                | <b>Upto 500 x 450 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 x 450 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>IV</b>      | <b>DI Flanged Socket</b>  |             |        |
|                | <b>Upto 500 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>V</b>       | <b>DI Flanged Spigot</b>  |             |        |
|                | <b>Upto 500 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>VI</b>      | <b>DI Double Socket Duck Foot Bend</b>  |             |        |
|                | <b>Upto 300mm dia</b>   | <b>Kg</b>   | 90.00  |
|                | <b>Above 300mm dia</b>  | <b>Kg</b>   | 100.00 |
| <b>VII</b>     | <b>DI Double Flange Duck Foot bend</b>  |             |        |
|                | <b>Upto 300 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 300 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>VIII</b>    | <b>DI All socket Cross.</b>   |             |        |
|                | <b>Upto 300 x 300 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 300 x 300 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>IX</b>      | <b>DI All Flange Tee</b>  |             |        |
|                | <b>Upto 500 x 500 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 x 500 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>X</b>       | <b>DI All Flange Cross</b>  |             |        |
|                | <b>Upto 300 x 300 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 300 x 300 mm dia</b>   | <b>Kg</b>   | 100.00 |
| <b>XI</b>      | <b>DI Double Flange Reducer</b>   |             |        |
|                | <b>Upto 500 x 450 mm dia</b>  | <b>Kg</b>   | 90.00  |
|                | <b>Above 500 x 450 mm dia</b>   | <b>Kg</b>   | 100.00 |

|             |                                |           |        |
|-------------|--------------------------------|-----------|--------|
| <b>XII</b>  | <b>Blank Flange</b>            |           |        |
|             | <b>Upto 500 mm dia</b>         | <b>Kg</b> | 90.00  |
|             | <b>Above 500 mm dia</b>        | <b>Kg</b> | 100.00 |
|             |                                |           |        |
| <b>XIII</b> | <b>Mechanical Joints</b>       |           |        |
|             | <b>Upto 300 mm dia</b>         | <b>Kg</b> | 90.00  |
|             | <b>Above 300 mm dia</b>        | <b>Kg</b> | 100.00 |
|             |                                |           |        |
| <b>XIV</b>  | <b>DI Double Socket Bends</b>  |           |        |
|             | <b>Upto 500mm dia</b>          | <b>Kg</b> | 90.00  |
|             | <b>Above 500 mm dia</b>        | <b>Kg</b> | 100.00 |
|             |                                |           |        |
| <b>XV</b>   | <b>DI Double Flanged Bends</b> |           |        |
|             | <b>Upto 500mm dia</b>          | <b>Kg</b> | 90.00  |
|             | <b>Above 500 mm dia</b>        | <b>Kg</b> | 100.00 |
|             |                                |           |        |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation.  
of SSR =Rs. 25,000/-**

**25. S.S. RATES FOR RUBBER GASKETS SUITABLE FOR  
C.I/ D.I. S/S PIPES**

| Sl. No. | Description   | Unit | S.S Rates For 2010-11 |
|---------|---|------|-----------------------|
| 1       | 2   | 3    | 4                     |
| 1       | MANUFACTURE AS PER BIS 12820/89 WITH S.B.R. QUALITY RUBBER CONFIRMING TO BIS: 5382/85, SUPPLY AND DELIVERY OF RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES ANYWHERE IN A.P. F.O.R. DESTINATION DEPARTMENTAL STORES INCLUDING COST OF MATERIAL, LOADING, INCIDENTAL HANDLING WITH COMPANYS STANDARD PACKING, TRANSPORTATION, UNLOADING & STACKING BUT EXCLUDING CENTRAL EXCISE DUTY, SALES TAX, OCTROI AND OTHER GOVT. LEVIES ETC., COMPLETE. |      |                       |
|         | 80mm dia  | Each | 43.00                 |
|         | 100mm dia   | Each | 67.00                 |
|         | 125mm dia   | Each | 79.00                 |
|         | 150mm dia   | Each | 97.00                 |
|         | 200mm dia   | Each | 119.00                |
|         | 250mm dia   | Each | 132.00                |
|         | 300mm dia   | Each | 202.00                |
|         | 350mm dia   | Each | 255.00                |
|         | 400mm dia   | Each | 278.00                |
|         | 450mm dia   | Each | 300.00                |
|         | 500mm dia   | Each | 416.00                |
|         | 600mm dia   | Each | 493.00                |
|         | 700mm dia   | Each | 655.00                |
|         | 750mm dia   | Each | 727.00                |
|         | 800mm dia   | Each | 872.00                |
|         | 900mm dia   | Each | 1053.00               |
|         | 1000mm dia  | Each | 1152.00               |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**26. RATES FOR CI PIPES AND SPECIALS**

| <b>Sl. No.</b> | <b>Description</b>  | <b>Quality or sort</b>  | <b>Rate/ Kg including packing, forwarding, transit risk and delivery any where in A.P. for the year 2010-11. Rs.</b> |
|----------------|---|---|--|
| <b>1</b>       | <b>2</b>  | <b>3</b>  | <b>4</b>   |
|                | <b>MANUFACTURE, SUPPLY AND DELIVERY OF CAST IRON PIPES AND FITTINGS (Spl.) CONFORMING TO I.S. No. 7181/1986, 5531/1988, 3950/1979 AND C.I.D. JOINTS CONFIRMING TO IS No.8794/1988 AT SITE OF WORK ANYWHERE IN A.P. INCLUDING, LOADING, UNLOADING, TRANSPORTATION TO SITE OF WORK STACKING AT SITE TRANSIT RISK AND PACKAGE, EXCLUDING TAXES AND DUTIES.</b> | <b>I.S. No. 7181/1986<br/>5531/1988<br/>3950/1979<br/>&amp;<br/>8794/1988</b> | 56.00  |

**Foot Note:** The rate of CI pipes, CI Specials and CID Joints etc., which are to be incorporated in the SSR are based on the following raw materials cost.

**Pig Iron:** Rs.25,000.00/- per M.T.(excluding CED, Tax & Fright)

**Coke** : Rs.29,100.00/- per M.T. .(Excluding CED, Tax & Fright)

The rates may be revised depending upon the increase/decrease in the cost of raw materials as per the following method. For every increase/decrease of Rs.1000/- in the cost of raw materials or part there of proportionately.

**In respect of Pig Iron:** The increase/decrease in cost of CI Specials per Kg is 3.43%.

**In respect of coke:** The increase/decrease in cost of CI Specials per Kg is 0.67%.

The above price is at site of work , Excise duty, CST/VAT extra as applicable at the time of supply.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**27. RATES FOR C.I. D/F VALVES****Rate Each in Rs.**

| <b>Sl.No.</b> | <b>Description</b>  | <b>Rs.</b>    | <b>Rs.</b>    | <b>Rs.</b> |
|---------------|---|---------------|---------------|------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>      | <b>4</b>      | <b>5</b>   |
| <b>1</b>      | <b>Manufacture, Supply and delivery of CI D/F Sluice valves conforming to IS 14846/2000 with amendments No. 1&amp;2 heavy duty with CI grade FG 260 as per IS: 210. Two coats of primer suitable for EPOXY PAINTS finish shall be applied to all metal surface and finally two coats of Epoxy Paint. The Valves shall be tested for (closed end Test) against Hydrostatic test requirement. The rates are excluding transportation, Central Excise duty and sale tax etc., The operation can be done with handwheel/cap. ISI Marked.</b>  |               |               |            |
|               | <b>DIA IN MM                      Rate/Each</b>   | <b>PN-1.0</b> | <b>PN-1.6</b> |            |
|               | 50  | 3,822         | 4,586         |            |
|               | 65  | 4,223         | 5,068         |            |
|               | 80  | 4,468         | 5,360         |            |
|               | 100   | 5,957         | 7,147         |            |
|               | 125   | 7,445         | 8,934         |            |
|               | 150   | 8,934         | 10,721        |            |
|               | 200   | 15,660        | 18,472        |            |
|               | 250   | 22,149        | 26,612        |            |
|               | 300   | 30,404        | 35,109        |            |
| <b>2</b>      | <b>Manufacture, Supply and delivery of CI D/F Sluice valves Non-rising stem conforming to IS 14846/2000 with amendments No. 1&amp;2 heavy duty with CI grade FG 260 as per IS: 210 . Two coats of primer suitable for EPOXY PAINTS finish shall be applied to all metal surface and finally two coats of Epoxy Paint. The Valves shall be tested for (closed end Test) against Hydrostatic test requirement. The rates are excluding transportation, Central Excise duty and sale tax etc., including the cost for enclosed Spur Gear Arrangement with thrust bearing for easy operation. ISI Marked.</b> |               |               |            |
|               | <b>DIA IN MM                      Rate/Each</b>   | <b>Rs.</b>    | <b>Rs.</b>    |            |
|               | 350   | 68,369        | 75,210        |            |
|               | 400   | 81,043        | 94,025        |            |
|               | 450   | 1,01,760      | 1,18,032      |            |
|               | 500   | 1,16,742      | 1,35,626      |            |
|               | 600   | 1,70,994      | 2,01,095      |            |

|              |  |                |               |               |
|--------------|--|----------------|---------------|---------------|
|              | 700  | 2,83,183       |               |               |
|              | 750  | 3,97,896       |               |               |
|              | 800  | 4,63,964       |               |               |
|              | 900  | 5,51,258       |               |               |
|              | 1000   | 8,51,760       |               |               |
|              | 1100   | 9,62,325       |               |               |
|              | 1200   | 11,46,600      |               |               |
| <b>Note:</b> | <b>By Pass arrangement extra @ 7.5% for above 500mm dia. Valves.</b>   |                |               |               |
| <b>3</b>     | <b>Manufacture, Supply and delivery of CI D/F Non Return Valve Heavy Duty Round Body conforming to IS 5312/Part1/1984. Excluding transportation, Central Excise duty and sale tax etc., complete.</b>  |                |               |               |
|              | <b>DIA IN MM</b>   | <b>P.N 0.6</b> | <b>PN-1.0</b> | <b>PN-1.6</b> |
|              | <b>Rate/Each</b>   |                |               |               |
|              | 50   |                |               | 2,348         |
|              | 65   |                |               | 2,935         |
|              | 80   |                |               | 3,523         |
|              | 100  |                |               | 4,696         |
|              | 125  |                |               | 5,870         |
|              | 150  |                | 7,043         | 8,803         |
|              | 200  |                | 14,049        | 17,561        |
|              | 250  |                | 20,375        | 25,471        |
|              | 300  |                | 30,655        | 38,317        |
|              | 350  | 42,174         |               | 51,771        |
|              | 400  | 53,890         |               | 67,356        |
|              | 450  | 90,771         |               | 1,13,471      |
|              | 500  | 1,09,492       |               | 1,36,873      |
|              | 600  | 1,74,929       |               | 2,18,668      |
| <b>4</b>     | <b>Manufacture, Supply and delivery of CI D/F Kinetic Air Valve Heavy Duty suitable for working pressure up to 16kg/Cm2 without isolating valve, conforming to IS 14845 excluding transportation, Central Excise duty and sale tax etc., complete.</b> |                |               |               |
|              | <b>DIA IN MM</b>   |                | <b>PN-1.0</b> | <b>PN-1.6</b> |
|              | <b>Rate/Each</b>   |                |               |               |
|              | 40   |                | 2,770         | 3,034         |
|              | 50   |                | 3,347         | 3,666         |
|              | 80   |                | 4,477         | 5,504         |
|              | 100  |                | 6,000         | 6,571         |
|              | 150  |                | 13,517        | 14,804        |
|              | 200  |                | 22,383        | 24,515        |



|          |   |                                    |                |                |
|----------|---|------------------------------------|----------------|----------------|
| <b>5</b> | <b>Manufacture, Supply and delivery of CI D/F Kinetic Air Valve as per IS:14845 Heavy Duty with isolating valve bevel gear operated as per IS 14846 excluding transportation, Central Excise duty and sales tax etc., complete.</b> |                                    |                |                |
|          | <b>DIA IN MM                      Rate/Each</b>   |                                    | <b>PIN 1.0</b> | <b>PIN 1.6</b> |
|          | 40  |                                    | 7,881          | 9,065          |
|          | 50  |                                    | 9,197          | 10,578         |
|          | 80  |                                    | 12,116         | 13,928         |
|          | 100   |                                    | 16,689         | 19,202         |
|          | 150   |                                    | 32,883         | 37,828         |
|          | 200   |                                    | 49,036         | 56,396         |
| <b>6</b> | <b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>   | <b>10% on basic cost of valves</b> |                |                |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate. For FG 260, Grade of CI shall be certified by reputed 3rd Party Quality Control Agency (as approved by indenting authority) at the cost of the supplier.

**28. S.S RATES FOR C.I. D/F SOFT SEATED GATE / SLUICE VALVES**

| Sl. No. | Description  | PN-1.0                      | PN-1.6      |
|---------|--|-----------------------------|-------------|
| 1       | 2  | 3                           | 4           |
| 1       | Manufacture, supply and delivery of CI D/F Gate (Sluice) Valve (Soft Seated) according to standards of BS5163 – 86 type B, also available as per DIN 3352 Part-4/AWWA C509/ISO5752 with body bonnet of Cast Iron of grade FG 260 as per IS 210-1978 wedge fully rubber lined with EPDM Food grade Quality and seals of NBR and the valves should be of vacuum tight and 100% Leak proof with Face to face dimensions as per IS: 14846-2000. Flanges of the valve is according to IS1538-93(Table 6) All the valves should be with Electrostatic powder coating both inside and outside with pocket less body passage, excluding transportation, Central Excise duty and sale tax etc., complete. |                             |             |
|         | <b>DIA IN MM</b>   | <b>Rs.</b>                  | <b>Rs.</b>  |
|         | 50   | 4,704.00                    | 5,173.00    |
|         | 80   | 6,024.00                    | 6,626.00    |
|         | 100  | 7,958.00                    | 8,754.00    |
|         | 150  | 13,016.00                   | 14,316.00   |
|         | 200  | 20,975.00                   | 23,072.00   |
|         | 250  | 28,802.00                   | 31,682.00   |
|         | 300  | 48,720.00                   | 53,591.00   |
|         | 350  | 1,48,785.00                 | 1,61,070.00 |
|         | 400  | 1,61,070.00                 | 1,73,355.00 |
|         | 450  | 2,05,065.00                 | 2,13,570.00 |
|         | 500  | 2,13,570.00                 | 2,22,075.00 |
|         | 600  | 2,64,600.00                 | 2,90,115.00 |
| 2       | <b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>  | 10% on basic cost of valves |             |

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate. For FG 260, Grade of CI shall be certified by reputed 3rd Party Quality Control Agency (as approved by indenting authority) at the cost of the supplier

**29. S.S.RATES FOR C.I. BUTTERFLY VALVES.**

| Sl. No.  | Description  | TEST PRESSURES |               |
|----------|--|----------------|---------------|
| 1        | 2  | 3              | 4             |
| <b>1</b> | Manufacture, Supply and delivery of CI Wafer Lug type Butterfly Valves conforming to IS 13095/1991 (Reaffirmed 1998) <b>excluding transportation, CED and taxes</b> etc., complete. Operation done with worm actuator ISI marked Rate at Ex-Factory. | <b>PN-1.0</b>  | <b>PN-1.6</b> |
|          | <b>DIA IN MM<br/>Rate / Each</b>   | <b>Rs.</b>     | <b>Rs.</b>    |
|          | 40   | 2,397.00       | 2,894.00      |
|          | 50   | 2,607.00       | 3,145.00      |
|          | 65   | 3,067.00       | 3,764.00      |
|          | 80   | 3,812.00       | 4,601.00      |
|          | 100  | 5,088.00       | 6,441.00      |
|          | 125  | 6,364.00       | 8,030.00      |
|          | 150  | 7,631.00       | 9,703.00      |
|          | 200  | 11,849.00      | 16,729.00     |
|          | 250  | 17,007.00      | 26,486.00     |
|          | 300  | 26,207.00      | 34,851.00     |
|          | 350  | 35,129.00      | 48,024.00     |
|          | 400  | 42,797.00      | 58,534.00     |
|          | 450  | 55,064.00      | 75,207.00     |
|          | 500  | 74,162.00      | 1,01,303.00   |
|          | 600  | 1,08,036.00    | 1,25,544.00   |
|          | 700  | 1,57,523.00    | 1,88,635.00   |
|          | 800  | 2,16,281.00    | 2,36,981.00   |
|          | 900  | 2,68,486.00    | 2,95,530.00   |
|          | 1000   | 3,28,149.00    | 3,81,957.00   |
|          | 1100   | 3,87,812.00    | 5,01,842.00   |
|          | 1200   | 4,48,870.00    | 5,91,059.00   |
| <b>2</b> | Manufacture, Supply and delivery of CI Wafer type <b>Butterfly Valves</b> conforming to IS 13095/1991 excluding transportation, CED and taxes etc., complete. Operation <b>without worm actuator.</b> ( ISI marked) Rate at Ex-Factory.              | <b>PN-1.0</b>  | <b>PN-1.6</b> |
|          | <b>DIA IN MM<br/>Rate / Each</b>   |                |               |
|          | 80   | 2,557.00       | 2,921.00      |
|          | 100  | 3,486.00       | 3,985.00      |
|          | 125  | 4,791.00       | 5,477.00      |
|          | 150  | 5,375.00       | 6,143.00      |
|          | 200  | 14,813.00      | 16,929.00     |
|          | 250  | 23,518.00      | 26,877.00     |
|          | 300  | 30,982.00      | 35,408.00     |

|          |   |  |               |               |
|----------|---|--|---------------|---------------|
| <b>3</b> | Manufacture, Supply and delivery of CI <b>D/F Butterfly Valves manually gear operated</b> conforming to IS 13095/1991 <b>excluding transportation, CED and taxes</b> etc., complete. ISI marked Rate at Ex-Factory. |  | <b>PN-1.0</b> | <b>PN-1.6</b> |
|          | <b>DIA IN MM<br/>Rate / Each</b>  |  |               |               |
|          | 300   |  | 36,722.00     | 41,969.00     |
|          | 350   |  | 56,822.00     | 64,939.00     |
|          | 400   |  | 68,033.00     | 77,751.00     |
|          | 450   |  | 79,489.00     | 90,845.00     |
|          | 500   |  | 93,736.00     | 1,07,127.00   |
|          | 600   |  | 1,10,343.00   | 1,26,107.00   |
|          | 700   |  | 1,65,613.00   | 1,89,272.00   |
|          | 750   |  | 1,95,200.00   | 2,23,085.00   |
|          | 800   |  | 2,07,905.00   | 2,37,607.00   |
|          | 900   |  | 2,59,760.00   | 2,96,868.00   |
|          | 1000  |  | 3,34,565.00   | 3,82,360.00   |
|          | 1100  |  | 4,41,591.00   | 5,04,674.00   |
|          | 1200  |  | 5,18,251.00   | 5,92,286.00   |
|          | 1300  |  | 7,31,853.00   | 8,36,404.00   |
|          | 1400  |  | 8,29,922.00   | 9,48,482.00   |
|          | 1500  |  | 9,46,920.00   | 10,82,195.00  |
|          | 1600  |  | 12,30,294.00  | 14,06,050.00  |
|          | 1800  |  | 13,98,328.00  | 15,98,088.00  |
|          | 2000  |  | 18,83,693.00  | 21,52,792.00  |

**NOTE** All the prices are ex-factory. Excise duty and CST / Local Tax extra as applicable at the time of supply. **Packing and transportation extra at 10% on basic cost.**

The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**30. S.S RATES FOR WATER HAMMER CONTROL DEVICES****(Rate Each in Rs.)**

| Sl. No. | Description   | TEST PRESSURE          |                        |                        |                        | Additional charges for Flanged ended valves |
|---------|---|------------------------|------------------------|------------------------|------------------------|---|
|         |   | 10 Kgs/cm <sup>2</sup> | 15 Kgs/cm <sup>2</sup> | 20 Kgs/cm <sup>2</sup> | 25 Kgs/cm <sup>2</sup> |   |
| 1       | 2   | 3                      | 4                      | 5                      | 6                      | 7   |
| 1       | Manufacture, Supply and delivery of zero velocity valve/ PSLV with CI body with flanged ends as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc., complete.         |                        |                        |                        |                        |   |
|         | <b>DIA IN MM      Rate/Each</b>   | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             |   |
|         | 150   | 63,742                 | 74,405                 | 78,801                 | 86,683                 |   |
|         | 200   | 66,591                 | 76,579                 | 82,324                 | 90,554                 |   |
|         | 250   | 75,133                 | 86,403                 | 92,884                 | 1,02,172               |   |
|         | 300   | 84,553                 | 97,236                 | 1,04,531               | 1,14,982               |   |
| 2       | Manufacture, Supply and delivery of zero velocity valve/ PSLV with MS Fabricated Body with Plain ends. as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc.,Complete |                        |                        |                        |                        |   |
|         | <b>DIA IN MM      Rate/ Each</b>  | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>                                  |
|         | 350   | 90,057                 | 1,03,565               | 1,11,332               | 1,22,465               | 7,803                                       |
|         | 400   | 99,545                 | 1,14,475               | 1,23,061               | 1,35,372               | 9,409                                       |
|         | 450   | 1,15,778               | 1,33,146               | 1,43,131               | 1,57,445               | 11,244                                      |
|         | 500   | 1,33,810               | 1,53,880               | 1,65,422               | 1,81,965               | 12,163                                      |
|         | 525/550   | 1,43,728               | 1,63,390               | 1,79,953               | 1,97,949               | 15,719                                      |
|         | 600   | 1,60,928               | 1,85,066               | 1,98,946               | 2,18,841               | 22,424                                      |
|         | 650   | 1,80,140               | 1,98,156               | 2,25,234               | 2,43,134               | 25,358                                      |
|         | 700   | 2,09,974               | 2,31,086               | 2,62,525               | 2,83,522               | 30,291                                      |
|         | 750   | 2,32,577               | 2,55,868               | 2,90,750               | 3,14,042               | 34,009                                      |
|         | 800   | 2,83,320               | 3,25,820               | 3,50,254               | 3,85,277               | 38,323                                      |
|         | 900   | 3,36,744               | 3,87,255               | 4,08,472               | 4,57,930               | 46,355                                      |
|         | 1000  | 4,08,472               | 4,08,472               | 4,08,472               | 5,67,617               | 58,861                                      |

|          |  |                                    |            |            |            |          |
|----------|--|------------------------------------|------------|------------|------------|----------|
|          | 1050   | 4,12,557                           | 4,12,557   | 4,12,557   | 5,97,655   | 61,216   |
|          | 1100   | 5,20,412                           | 5,90,106   | 6,43,375   | 7,07,714   | 68,156   |
|          | 1200   | 6,26,363                           | 6,89,013   | 7,84,933   | 8,45,631   | 77,105   |
|          | 1400   | 9,39,545                           | 10,33,517  | 11,77,400  | 12,68,444  | 1,08,429 |
|          | 1500   | 10,94,730                          | 12,04,192  | 13,68,382  | 14,77,731  | 1,10,598 |
|          | 1600   | 11,16,624                          | 12,28,274  | 13,95,750  | 15,07,284  | 1,15,658 |
| <b>3</b> | <b>Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc., complete.</b> |                                    |            |            |            |          |
|          | <b>DIA IN MM      Rate/Each</b>  | <b>Rs.</b>                         | <b>Rs.</b> | <b>Rs.</b> | <b>Rs.</b> |          |
|          | 100  | 58,289                             | 67,033     | 73,735     | 81,106     |          |
|          | 150  | 88,580                             | 1,01,867   | 1,12,052   | 1,23,258   |          |
|          | 200  | 94,546                             | 1,08,727   | 1,19,601   | 1,31,560   |          |
| <b>4</b> | <b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>  | <b>10% on basic cost of valves</b> |            |            |            |          |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**31. RATES FOR CAST STEEL VALVES FOR THE YEAR 2010-11.**

| Sl.No. | Description  | TEST PRESSURES  |  |                                     |              |
|--------|--|---|--|-------------------------------------|--------------|
| 1      | 2  | 3   | 4  | 5                                   | 6            |
| 1      | Manufacture, Supply and delivery of Cast Carbon Steel rising / Non rising spindle sluice valve design standard as per IS:14846/2000 for Water Supply Scheme with SS Spindle & SS Working parts the grade of Cast Steel for body Bonnet, Dome, Stool Cover, Wedge, Stuffing Box, Gland Thrust Plate, shall be as per IS : 1030 / 1989. (The valve shall be used for High pressure schemes & pumping stations) excluding transportation, Central Excise duty and sale tax etc., complete. ISI Marked | Class-150<br>Body<br>425PSI<br>Seat 300<br>PSI<br>PN-20 | Class-300<br>Body 1100<br>PSI Seat<br>750 PSI<br>PN-30 | FOR Enclosed Spur Gear Arrangement. |              |
|        | Rate/Each  |   |  | Class<br>150                        | Class<br>300 |
|        | DIA IN MM  | Rs.   | Rs.  | Rs.                                 |              |
|        | 40   | 5,196.00  | 10,392.00  |                                     |              |
|        | 50   | 8,562.00  | 15,588.00  |                                     |              |
|        | 65   | 10,715.00   | 19,485.00  |                                     |              |
|        | 80   | 12,851.00   | 23,382.00  |                                     |              |
|        | 100  | 17,140.00   | 31,175.00  |                                     |              |
|        | 125  | 21,982.00   | 39,969.00  |                                     |              |
|        | 150  | 25,718.00   | 46,763.00  |                                     |              |
|        | 200  | 41,536.00   | 84,434.00  | 50,837.00                           | 92,888.00    |
|        | 250  | 58,462.00   | 1,32,895.00  | 67,762.00                           | 141,350.00   |
|        | 300  | 73,850.00   | 1,67,868.00  | 83,150.00                           | 176,322.00   |
|        | 350  | 98,476.00   | 2,23,824.00  | 1,11,158.00                         | 235,353.00   |
|        | 400  | 2,00,043.00   | 4,54,642.00  | 2,12,725.00                         | 466,171.00   |
|        | 450  | 2,24,223.00   | 4,99,607.00  | 2,36,906.00                         | 511,136.00   |
|        | 500  | 2,63,792.00   | 5,99,528.00  | 2,76,474.00                         | 611,057.00   |
|        | 600  | 3,01,162.00   | 6,83,462.00  | 3,13,845.00                         | 694,991.00   |
|        | 700  | 5,82,541.00   |  | 5,95,223.00                         |              |
|        | 750  | 6,26,506.00   |  | 6,44,261.00                         |              |
|        | 800  | 7,25,428.00   |  | 7,43,183.00                         |              |
|        | 900  | 8,57,325.00   |  | 8,75,080.00                         |              |
|        | 1000   | 10,99,134.00  |  | 11,16,889.00                        |              |
|        | 1100   | 11,87,065.00  |  | 12,04,820.00                        |              |
|        | 1200   | 13,40,943.00  |  | 13,58,698.00                        |              |

|   |   |                  |              |              |  |
|---|---|------------------|--------------|--------------|--|
| 2 | Manufacture, Supply and delivery of Cast Carbon Steel Bolted Cover Non Return Valve as per IS : 5312 / Part1 / 1984. Round body heavy duty material spec. As per IS:1030/1989 with SS Hinge & Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete |                  |              |              |  |
|   | <b>DIA IN MM</b>  | <b>Rate/Each</b> | <b>PN-20</b> | <b>PN-30</b> |  |
|   | 40  |                  | 5,166.00     | 9,393.00     |  |
|   | 50  |                  | 7,687.00     | 13,989.00    |  |
|   | 65  |                  | 9,607.00     | 17,487.00    |  |
|   | 80  |                  | 11,529.00    | 20,984.00    |  |
|   | 100   |                  | 15,818.00    | 27,979.00    |  |
|   | 125   |                  | 19,785.00    | 35,972.00    |  |
|   | 150   |                  | 21,753.00    | 39,569.00    |  |
|   | 200   |                  | 32,974.00    | 71,943.00    |  |
|   | 250   |                  | 46,164.00    | 119,906.00   |  |
|   | 300   |                  | 65,948.00    | 149,882.00   |  |
|   | 350   |                  | 87,931.00    | 199,843.00   |  |
|   | 400   |                  | 180,258.00   | 409,677.00   |  |
|   | 450   |                  | 202,241.00   | 459,638.00   |  |
|   | 500   |                  | 237,413.00   | 539,575.00   |  |
|   | 600   |                  | 274,783.00   | 624,507.00   |  |
| 3 | Manufacture, Supply and delivery of Cast Steel Multi Door Type Non return Valve as per IS; 5312/ Part II / 1984 Heavy duty material spec. as per 1030/1989 with SS hinges & Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.                   | PN-20            |              |              |  |
|   |   | <b>Rate/Each</b> |              |              |  |
|   | <b>DIA IN MM</b>  | <b>Rs.</b>       |              |              |  |
|   | 500   | 3,99,685.00      |              |              |  |
|   | 600   | 4,99,607.00      |              |              |  |
|   | 700   | 5,99,528.00      |              |              |  |
|   | 750   | 7,39,418.00      |              |              |  |
|   | 800   | 10,99,134.00     |              |              |  |
|   | 900   | 13,18,961.00     |              |              |  |
|   | 1000  | 14,38,866.00     |              |              |  |
|   | 1100  | 16,98,662.00     |              |              |  |
|   | 1200  | 17,18,646.00     |              |              |  |



|   |   |                  |                             |               |  |  |
|---|---|------------------|-----------------------------|---------------|--|--|
| 4 | <b>Manufacture, Supply and delivery of Cast Steel D/F Butter fly Valves conforming to IS; 13095/1991 manually heavy duty Gear operation, excluding transportation, Central Excise duty and sale tax etc., complete.</b> |                  |                             |               |  |  |
|   | <b>DIA IN MM</b>  | <b>Rate/Each</b> | <b>PN-1.0/1.6</b>           | <b>PN-2.5</b> |  |  |
|   | 300   |                  | 76,285.00                   | 95,095.00     |  |  |
|   | 350   |                  | 1,02,619.00                 | 1,28,953.00   |  |  |
|   | 400   |                  | 1,23,310.00                 | 1,59,885.00   |  |  |
|   | 450   |                  | 1,49,435.00                 | 1,89,145.00   |  |  |
|   | 500   |                  | 1,70,335.00                 | 2,17,360.00   |  |  |
|   | 600   |                  | 1,98,550.00                 | 2,54,980.00   |  |  |
|   | 700   |                  | 3,11,410.00                 | 3,86,650.00   |  |  |
|   | 750   |                  | 3,86,650.00                 | 4,80,700.00   |  |  |
|   | 800   |                  | 4,24,270.00                 | 5,27,725.00   |  |  |
|   | 900   |                  | 4,80,700.00                 | 6,02,965.00   |  |  |
|   | 1000  |                  | 7,62,850.00                 | 9,50,950.00   |  |  |
|   | 1100  |                  | 9,50,950.00                 | 12,33,100.00  |  |  |
|   | 1200  |                  | 11,39,050.00                | 12,33,100.00  |  |  |
|   | 1300  |                  | 15,25,700.00                | 17,03,350.00  |  |  |
|   | 1400  |                  | 16,09,300.00                | 17,97,400.00  |  |  |
|   | 1500  |                  | 17,03,350.00                | 18,91,450.00  |  |  |
|   | 1600  |                  | 19,85,500.00                | 22,67,650.00  |  |  |
|   | 1800  |                  | 24,55,750.00                | 26,43,850.00  |  |  |
|   | 2000  |                  | 33,96,250.00                | 36,78,400.00  |  |  |
| 5 | <b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>   |                  | 10% on basic cost of valves |               |  |  |

**Note :** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

## 32. S S RATES FOR DI D/F VALVES FOR THE YEAR 2010-11.

Rate/Each in Rs.

| Sl. No. | Description   | TEST PRESSURE |          |          |   |
|---------|---|---------------|----------|----------|---|
|         |   | PN 10         | PN 16    |          |   |
| 1       | 2   | 3             | 4        | 5        | 6 |
| 1       | Manufacture, supply and delivery of Single Chamber DI Air Valve with Body and cover in Ductile Iron of grade SG 400/12 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions. All internal parts such as float, shell etc., all cover bolts, of stainless steel, and Gaskets and seals of EPDM food grade quality.S Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per IS:1538.   |               |          |          |   |
|         | DIA IN MM   | PN 10         | PN 16    | PN 25    |   |
|         | 50  | 25,473        | 25,473   | 32,775   |   |
|         | 80  | 33,983        | 33,983   | 33,983   |   |
|         | 100   | 39,675        | 39,675   | 45,626   |   |
|         | 150   | 48,300        | 48,300   | 55,200   |   |
|         | 200   | 52,900        | 52,900   | 61,525   |   |
| 2       | Manufacture, Supply and delivery of DI D/F Gate Valves (Soft Seated) Resilient seated soft sealing gate valves (Sluice valves) with body bonnet of ductile cast iron of grade GGG40/ SG 400/12 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions, wedge fully rubber lined with EPDM food grade quality and seals of NBR and the valves should be of vacuum tight and 100% leak proof with face to face dimensions as per BS5163-89/IS14846-2000/DIN 3202 F 4. All the valves should be with Electrostatic powder coating both inside and outside pocket less body passage. Drilled as per IS:1538. |               |          |          |   |
|         | DIA IN MM   | PN 10         | PN 16    | PN 25    |   |
|         | 50  | 6,098         | 6,098    | 10,306   |   |
|         | 80  | 7,809         | 7,809    | 12,706   |   |
|         | 100   | 10,301        | 10,301   | 14,407   |   |
|         | 150   | 16,220        | 16,220   | 24,030   |   |
|         | 200   | 26,954        | 26,954   | 40,532   |   |
|         | 250   | 37,331        | 37,331   | 60,203   |   |
|         | 300   | 56,420        | 56,420   | 97,650   |   |
|         | 350   | 1,70,823      | 1,70,823 | 2,85,755 |   |
|         | 400   | 1,79,166      | 1,79,166 | 2,90,653 |   |
|         | 450 With By-pass & Gear   | 3,08,243      | 3,08,243 | 5,79,405 |   |
|         | 500 With By-pass & Gear   | 3,27,334      | 3,27,334 | 6,15,289 |   |
|         | 600 With By-pass & Gear   | 4,21,512      | 4,21,512 | 7,92,315 |   |
| 3       | Manufacture, Supply and delivery of DI D/F Butterfly Valves with GGG40/SG 400/12 or Equivalent grade as per I.S.3896-part 2-1985 and subsequent revisions, Double eccentrically Disc., with renewable soft seal on the disc and Body seat face of stainless steel / nickel weld overlay, with powder or liquid Epoxy coating with minimum thickness of 250 microns applied on both body and disc inside and outside. Face to  |               |          |          |   |

|   |  |              |              |              |              |
|---|--|--------------|--------------|--------------|--------------|
|   | face dimensions as per AWWA C 504 or BS 5155-long body or IS:13095 long body. Drilled as per IS: 1538/ISO  |              |              |              |              |
|   | <b>DIA IN MM</b>   | <b>PN 10</b> | <b>PN 16</b> | <b>PN 25</b> | <b>PN 40</b> |
|   | 150  | 65,006       | 65,006       | 67,104       | 89,089       |
|   | 200  | 70,802       | 73,100       | 85,891       | 1,08,326     |
|   | 250  | 82,494       | 84,892       | 99,432       | 1,51,796     |
|   | 300  | 98,433       | 1,01,331     | 1,13,023     | 1,59,391     |
|   | 350  | 1,12,623     | 1,22,866     | 1,43,102     | 1,73,482     |
|   | 400  | 1,41,850     | 1,60,710     | 1,87,113     | 2,65,227     |
|   | 450  | 1,55,726     | 1,72,835     | 2,20,118     |              |
|   | 500  | 1,57,207     | 1,85,564     | 2,95,084     | 3,27,750     |
|   | 600  | 2,06,041     | 2,90,909     | 3,42,502     | 3,59,127     |
|   | 700  | 4,06,760     | 4,29,196     | 6,45,064     |              |
|   | 800  | 4,40,977     | 4,59,560     | 9,41,495     |              |
|   | 900  | 5,76,712     | 5,76,712     |              |              |
|   | 1000   | 7,22,935     | 7,22,935     | 13,65,228    |              |
|   | 1100   | 8,31,375     | —            |              |              |
|   | 1200   | 9,68,651     | 9,68,651     | 15,25,131    |              |
|   | 1400   | 20,81,819    | 20,81,819    |              |              |
|   | 1600   | 24,82,376    | 24,82,376    |              |              |
|   | 1800   | 30,44,778    | 30,44,778    |              |              |
|   | 2000   | 52,01,268    | 52,01,268    |              |              |
|   | 2200   | 75,09,052    | 75,09,052    |              |              |
| 4 | Manufacture, Supply and delivery of DI D/F Swing Check Valves Slanted/Straight seated with metallic, corrosion proof and wear resistant seat faces/resilient seat, Body and Disc of ductile cast iron GGG 40/SG Iron 420/12 or equivalent grade as per IS 3896(part2)-1985 and subsequent revisions. All the inside and outside of the body is to be coated with double coating of epoxy liquid. Drilled as per IS:1538. Specification and Dimensions as per I.S 5312 or equivalent codes. |              |              |              |              |
|   | <b>DIA IN MM</b>   | <b>PN 10</b> | <b>PN 16</b> | <b>PN 25</b> | <b>PN 40</b> |
|   | 100  | 25,758       | 28,620       |              |              |
|   | 150  | 43,254       | 48,060       |              |              |
|   | 200  | 65,594       | 69,496       | 1,01,922     | 1,33,407     |
|   | 250  | 72,187       | 76,559       | 1,23,786     | 1,56,415     |
|   | 300  | 90,485       | 95,867       | 1,50,696     | 1,90,926     |
|   | 350  | 1,06,497     | 1,12,887     | 1,71,417     | 2,08,418     |
|   | 400  | 1,29,370     | 1,37,106     | 1,73,570     | 2,25,708     |
|   | 500  | 1,64,488     | 1,74,445     | 2,19,989     | 2,89,485     |
|   | 600  | 2,46,790     | 2,61,625     | 3,24,300     | 4,19,175     |
|   | 700  | 3,56,213     | 3,88,470     | 4,74,835     | 6,02,140     |
|   | 800  | 4,45,395     | 4,85,415     | 5,98,748     | 7,58,540     |
| 5 | Manufacture, supply and delivery of DI (Ductile Iron) Wafer Butterfly valves conforming to IS 13095-1991. With hand lever below 150 mm, with Worm gear for 200 mm and above excluding transportation, CED and taxes etc, completed   |              |              |              |              |

|   | DIA IN MM  | PN 10     | PN 16     |          |  |
|---|--|-----------|-----------|----------|--|
|   | 40   | 4415      | 4415      |          |  |
|   | 50   | 4415      | 4415      |          |  |
|   | 65   | 4778      | 4778      |          |  |
|   | 80   | 5210      | 5710      |          |  |
|   | 100  | 7325      | 7594      |          |  |
|   | 125  | 9206      | 9206      |          |  |
|   | 150  | 12432     | 12701     |          |  |
|   | 200  | 16867     | 16867     |          |  |
|   | 250  | 22445     | 22445     |          |  |
|   | 300  | 31584     | 31584     |          |  |
|   | 350  | 38327     | 41577     |          |  |
| 6 | Manufacture and supply of– Air Release – Vacuum Break – Surge Alleviation” Valve for potable water. Construction material Cylindrical Body of Ductile Iron GGG-50/SG-500-7, Three cylindrical Floats of High Density Poly Ethylene. Baffle Plate, Orifice venture and all construction bolts of stainless steel, coating internally and externally. Electro statically applied epoxy (1) Flange connection as per IS 1538, (2) Female (BSP/NTP Threaded for sizes 25 mm  |           |           |          |  |
|   | DIA IN MM  | PN 10     | PN 16     | PN 25    |  |
|   | 25 mm dia  | 11,660    | -         | -        |  |
|   | 50 mm dia  | -         | 37,575    | 37,575   |  |
|   | 80 mm dia  | -         | 58,950    | 58,950   |  |
|   | 100 mm dia   | -         | 65,000    | 65,000   |  |
|   | 150 mm dia   | -         | 1,33,300  | 1,33,300 |  |
|   | 200 mm dia   | -         | 2,00,200  | 2,00,200 |  |
| 7 | Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass & gear operated, for water and sewage applications& dimensions confirming to IS 14846-2000. Material construction Body, Bonnet, Wedge and Distance Piece of ductile iron GGG-50/SG500/7 DIN1693 or equivalent. Body seat, Wedge seat and Stem nut of Aluminum Bronze BS EN 1982 CC331G/equivalent, Stem of Stainless steel BS EN 100881.4057 or equivalent. 'O' Seal Body/Cover is of EPDM food grade Quality. Fastners is of Steel Sheraplex coated to BS 3692 Gr 8.8 or equivalent. Body and Bonnet internally and externally blue two pack epoxy to WIS 4-52-01 Class B. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538. |           |           |          |  |
|   | DIA IN MM  | PN 10     | PN 16     |          |  |
|   | DN700  | 10,80,039 | 10,80,039 |          |  |
|   | DN800  | 13,65,553 | 13,65,553 |          |  |
|   | DN 900   | 15,43,628 | 15,43,628 |          |  |
|   | DN 1000  | 17,29,506 | 17,29,506 |          |  |
|   | DN 1100  | 26,78,623 | 26,78,623 |          |  |
|   | DN 1200  | 23,56,607 | 23,56,607 |          |  |

**NOTE:-**All the prices are ex-go down /ex-factory. Excise duty and CST /Local Tax Extra as applicable at the time of supply. Packaging and Transportation extra at 5% on basic cost. The duties and taxes as applicable may be added as per rules at the time of preparation of estimate. The grade of DI & conformation to specifications shall be certified by a third party Quality Control Agency approved by indenting authority at the cost of supplier.

**33. S.S RATES FOR SFRC MAN-HOLE FRAME WITH COVERS**

| Sl.No.    | Description  | Unit | S.S. Rates for 2010-11. |
|-----------|--|------|-------------------------|
| 1         | 2  | 3    | 4                       |
| <b>I</b>  | <b>Manufacture as per BIS:12592 (Part 1&amp;2) Supply &amp; Delivery of manhole covers and frames with ISI marking anywhere in A.P., F.O.R. destination including, loading, unloading &amp; stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable.</b><br><b><u>I.S.I Mark</u></b>                           |      | Rs.                     |
| <b>a)</b> | M.D. -10 with 500mm dia clear opening  | Each | 1294.00                 |
| <b>b)</b> | H.D.-20 with 500mm dia clear opening   | Each | 1668.00                 |
| <b>c)</b> | H.D.-10with 560mmdia clear opening(New item)   | Each | 1309.00                 |
| <b>d)</b> | H.D.-20 with 560mm dia clear opening   | Each | 1789.00                 |
| <b>e)</b> | H.D.-35 with 560mm dia clear opening.  | Each | 1916.00                 |
| <b>f)</b> | 24x24 MD 10  | Each | 1410.00                 |
| <b>g)</b> | 24x18 MD 10  | Each | 1298.00                 |
| <b>h)</b> | 24x24 HD 20  | Each | 1586.00                 |
| <b>i)</b> | 24x18 HD 20  | Each | 1616.00                 |
| <b>j)</b> | Deviders 0.9 mtr.  | Each | 3319.00                 |
| <b>II</b> | <b>Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in A.P. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding taxes such as sales tax, C.E.D and others etc., as applicable.</b> | Each | 136.00                  |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**34. CI and M.S. DISMANTLING JOINTS**

| <b>Sl.No.</b> | <b>Description</b>   | <b>Unit</b> | <b>2010-11.</b>  |
|---------------|--|-------------|------------------|
| <b>1</b>      | <b>2</b>   | <b>3</b>    | <b>4</b>         |
| <b>1</b>      | <b>Manufacture, Supply and delivery of CI Dismantling Joints with both side flange end suitable for installation in between flange end pipes. These rates are excluding Excise duty, Taxes and transportation charges etc., complete.</b>                            |             | Rs.              |
|               | <b>Nominal Dia. In MM</b>  |             |                  |
|               | 50   | Each        | 2,995            |
|               | 80   | Each        | 3,279            |
|               | 100  | Each        | 4,304            |
|               | 125  | Each        | 5,533            |
|               | 150  | Each        | 6,070            |
|               | 200  | Each        | 8,608            |
|               | 250  | Each        | 10,248           |
|               | 300  | Each        | 16,397           |
| <b>2</b>      | <b>Manufacture, Supply and delivery of MS. Dismantling Joints with both side flange end suitable for installation in between flange end pipes. Thickness as per IS: 7322. These rates are excluding Excise duty, Taxes and transportation charges etc., complete</b> | Each        |                  |
|               | <b>Nominal Dia. In MM</b>  |             |                  |
|               | 350  |             | 38,889           |
|               | 400  |             | 44,564           |
|               | 450  |             | 48,348           |
|               | 500  |             | 57,867           |
|               | 600  |             | 67,335           |
|               | 700  |             | 74,911           |
|               | 750  |             | 76,805           |
|               | 800  |             | 91,956           |
|               | 900  |             | 95,935           |
|               | 1000   |             | 114,915          |
|               | 1100   |             | 124,403          |
|               | 1200   |             | 143,381          |
|               | 1300   |             | 162,357          |
|               | 1400   |             | 181,704          |
|               | 1600   |             | 200,718          |
|               | 1800   |             | 237,692          |
|               | 2000   |             | 295,796          |
| <b>3</b>      | <b>Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.</b>  |             | 5% on basic cost |
| <b>Note:</b>  | <b>The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.</b>  |             |                  |

**35. S.S RATES FOR FUSION BONDED EPOXY COATING FOR THE YEAR 2010-11.**

| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> | <b>Rate (Rs.)</b> |
|----------------|---|-------------|-------------------|
| <b>1</b>       | <b>2</b>  | <b>3</b>    | <b>4</b>          |
|                | Providing <b>fusion bonded epoxy coating</b> not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS 13620-1993 including testing of coating at plant. The rate is inclusive of cost on account of careful handling, PVC coated binding wire instead of GI binding wire, touch up material supplied by coating agency, repair work, transportation from the source of supply of steel to the plant and transportation of coated steel from the plant to site of work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer-in-charge. | per MT      | 10,000.00         |

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.



**36. OTHER ITEMS**

| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>S.S. Rates for 2010-11.</b> |
|----------------|--|-------------|--------------------------------|
| <b>1</b>       | <b>2</b>   | <b>3</b>    | <b>4</b>                       |
|                |  |             |                                |
| <b>1</b>       | <b>SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                           | Per Kg      | 229.00                         |
|                | <b>SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                          | Per Kg      | 120.00                         |
| <b>2</b>       | <b>SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                       | Per Kg      | 90.00                          |
| <b>3</b>       | <b>SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                                  |             |                                |
|                | a) 3 mm thick  | Per Kg      | 73.00                          |
|                | b) 6 mm thick  | Per Kg      | 73.00                          |
| <b>4</b>       | <b>SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")</b> | Per Kg      | 89.00                          |

**NEW ITEM****H.D.P.E PIPES- PE - 100 Grade- (SEWER LINES) FOR THE YEAR 2010-11.**

| <b>Sl. No</b> | <b>Description</b>   | <b>6.0 kg/ sqcm</b> | <b>8.0 kg/ sqcm</b> | <b>10.0 kg/ sqcm</b> | <b>12.5 kg/ sqcm</b> | <b>16.0 kg/ sqcm</b> |
|---------------|--|---------------------|---------------------|----------------------|----------------------|----------------------|
| <b>1</b>      | <b>2</b>   | <b>3</b>            | <b>4</b>            | <b>5</b>             | <b>6</b>             | <b>7</b>             |
| <b>I</b>      | Manufacture, supply, & delivery of HDPE pipes conforming to IS 14333 - 2000 For using Under Ground Drainage & Sewerage systems including transportation to any where in A.P,excluding xcise duty, A.P. VAT and specials etc., complete. ( Supply upto 90 mm dia in coil & above 90 mm dia straight length in 6 M or 12 M.) |                     |                     |                      |                      |                      |
|               | <b>Rate per Meter</b>  |                     |                     |                      |                      |                      |
|               | OD 63 mm   | 87.18               | 110.70              | 133.23               | 156.59               | 188.16               |
|               | OD 75 mm   | 123.72              | 156.59              | 188.09               | 223.65               | 267.39               |
|               | OD 90 mm   | 175.84              | 224.13              | 269.04               | 318.54               | 384.96               |
|               | OD 110 mm  | 251.26              | 319.43              | 379.93               | 456.27               | 545.29               |
|               | OD 125 mm  | 321.75              | 410.96              | 492.73               | 584.89               | 704.50               |
|               | OD 140 mm  | 403.01              | 513.80              | 617.89               | 734.95               | 883.70               |
|               | OD 160 mm  | 525.68              | 669.73              | 805.42               | 957.46               | 1151.07              |
|               | OD 180 mm  | 661.77              | 849.03              | 1017.76              | 1209.35              | 1456.02              |
|               | OD 200 mm  | 819.63              | 1046.24             | 1254.57              | 1498.48              | 1793.68              |
|               | OD 225 mm  | 1033.06             | 1319.69             | 1587.69              | 1887.93              | 2274.16              |
|               | OD 250 mm  | 1274.85             | 1632.08             | 1959.57              | 2332.14              | 2801.35              |
|               | OD 280 mm  | 1594.27             | 2042.44             | 2443.01              | 2932.08              | 3516.91              |
|               | OD 315 mm  | 2017.67             | 2585.45             | 3106.15              | 3696.60              | 4447.35              |
|               | OD 355 mm  | 2556.73             | 3274.08             | 3940.42              | 4701.45              | 5641.93              |
|               | OD 400 mm  | 3388.06             | 4335.17             | 5205.68              | 6206.94              | 7445.47              |
|               | OD 450 mm  | 4278.28             | 5486.16             | 6594.66              | 7844.35              |                      |
|               | OD 500 mm  | 5287.79             | 6764.05             | 8132.02              | 9693.10              |                      |
|               | OD 560 mm  | 6609.62             | 8475.84             | 10202.73             |                      |                      |
|               | OD 630 mm  | 8370.91             | 10729.15            | 12891.55             |                      |                      |
|               | OD 710 mm  | 10888.30            | 13946.37            |                      |                      |                      |
|               | OD 800 mm  | 13811.64            |                     |                      |                      |                      |
|               | OD 900 mm  | 17495.25            |                     |                      |                      |                      |
|               | OD 1000 mm   | 21613.78            |                     |                      |                      |                      |

**Note:-**

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 100 grade Rs.78,680/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

# **Conveyance Charges of Material**

**CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2010-11**

**(COMMON TO ALL DEPARTMENTS).**

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS  
FOR THE YEAR: 2010-11**

1. For total lead up to 150 m (including initial lead ) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative& includes previous km up to 5 kms
12. **For detailed calculations, refer to the Lead & Lift charges (Common to all Departments) chapter of Irrigation & CAD works (Part-1), A.P. Revised Standard data. The lead & lift charges are inclusive of 14% Contractors profit and Overhead charges.**

**A. (Lead) Conveyance Charges for materials by head load****FOR THE YEAR: 2010-11**

| Sl No. | Total distance<br>( Total lead includes<br>initial lead ) | Earth / Sand<br>/Gravel / Murrum/<br>Lime/ Surki/ Size<br>stone / Cut stone<br>Rubble / Coarse<br>aggregate<br>Rs/Cum | Cement /<br>Reinforce-<br>ment steel<br>Str steel<br>Rs / tonne | PCC slab/<br>Shahbad slab /<br>CC block/ BS<br>slab/ Late-rite /<br>Wood Rs /<br>cum |
|--------|---|---|---|--|
| 1      | 2   | 3   | 4   | 5  |
| 1      | Total lead up to 50 m<br>(covered by item rate)           | initial lead  | initial lead  | initial lead   |
| 2      | Total lead up to 100 m                                    | 31.90   | 18.60   | 40.60  |
| 3      | Total lead up to 150 m                                    | 63.80   | 37.20   | 81.30  |

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.

2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

**3.The lead charges are inclusive of 14% Contractor Profit and Over Head charges****B.( Lead) Conveyance charges for machinery per kilometer for transporting materials by tippers and trucks excluding loading, unloading and idle hire charges of machinery.****FOR THE YEAR: 2010-11****( No loading and unloading charges allowed for machinery loading and unloading )**

| Sl No. | Distance                             | (Lead) charges for trucks and tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter | (Lead) charges for trucks and tippers for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter | (Lead) charges for trucks and tippers for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/tonne | (Lead) charges for trucks and tippers per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum | (Lead) charges for trucks and tippers per cu.meter water/ 1000 litres |
|--------|--------------------------------------|--|---|--|---|---|
| 1      | 2                                    | 3  | 4   | 5  | 6   | 7   |
| 1      | Lead up to 1 km                      | 21.50  | 19.10   | 11.90  | 28.00   | 11.90   |
| 2      | Lead up to 2 km                      | 30.20  | 26.70   | 16.70  | 39.20   | 16.70   |
| 3      | Lead up to 3 km                      | 40.20  | 40.20   | 25.10  | 59.10   | 22.20   |
| 4      | Lead up to 4 km                      | 48.80  | 48.80   | 30.50  | 71.80   | 27.00   |
| 5      | Lead up to 5 km                      | 57.40  | 57.40   | 35.90  | 84.50   | 31.80   |
| 6      | for Every km beyond 5 km up to 30 km | 8.60   | 8.60  | 5.40   | 12.70   | 4.80  |
| 7      | for Every km beyond 30 km            | 7.20   | 7.20  | 4.50   | 10.60   | 4.00  |

**Note: The lead charges are inclusive of 14% Contractor Profit and Over Head charges**

**C. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**  
**( idle hire charges of trucks are not added)**

| Sl No. | Description of item | Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum | Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum | cement in Rs/tonne | steel in Rs./tonne | brick work Rs/1000 No |
|--------|---------------------|--|---|--------------------|--------------------|-----------------------|
| 1      | 2                   | 3  | 4   | 5                  | 6                  | 7                     |
| 1      | Loading             | 10.60  | 21.10   | 34.90              | 41.80              | 29.00                 |
| 2      | Unloading           | 5.30   | 10.55   | 34.90              | 41.80              | 29.00                 |

**Note: The lead charges are inclusive of 14% Contractor Profit and Over Head charges**

**D. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**  
**(including idle hire charges of trucks )**

| Sl No. | Description of item | Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum | Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum | cement in Rs/tonne | steel in Rs./tonne | brick work Rs/1000 No |
|--------|---------------------|--|---|--------------------|--------------------|-----------------------|
| 1      | 2                   | 3  | 4   | 5                  | 6                  | 7                     |
| 1      | Loading             | 68.30  | 78.90   | 98.60              | 105.60             | 134.10                |
| 2      | Unloading           | 24.50  | 39.45   | 98.60              | 105.60             | 134.10                |

**Note: The lead charges are inclusive of 14% Contractor Profit and Over Head charges.**

**E.LOADING AND UNLOADING CHARGES BY MECHANICAL MEANS**  
**(including idle hire charges of trucks)**

| Sl No. | Description of item | Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum | Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum |
|--------|---------------------|--|---|
| 1      | 2                   | 3  | 4   |
| 1      | Loading             | 34.30  | 68.30   |
| 2      | Unloading           | 10.90  | 10.90   |

**Note: The lead charges are inclusive of 14% Contractor Profit and Over Head charges**

**F. LIFT CHARGES FOR MATERIALS BY HEAD LOAD**

| Sl No. | Total lift<br>( Total lift includes<br>initial lift )     | Earth / Sand<br>/Gravel<br>Murrum/ Lime/<br>Surki/<br>Size stone / Cut<br>stone<br>Rubble / Coarse<br>aggregate<br>Rs / cum | Cement /<br>Reinforce-<br>ment steel<br>Str steel<br>Rs / tonne | PCC slab/<br>Shahbad<br>slab / CC<br>block/ BS<br>slab / Laterite<br>/ Wood<br>Rs / cum |
|--------|---|---|---|---|
| 1      | 2   | 3   | 4   | 5   |
| 1      | Total lift up to 3 m<br>(covered by item<br>rate)         | Initial lift  | Initial lift  | Initial lift  |
| 2      | For Every 1.00 Lift<br>beyond initial lift of<br>3 meters | 3.70  | 2.70  | 5.00  |

**Note: The lead charges are inclusive of 14% Contractor Profit and Over Head charges**



# HIRE CHARGES

**HIRE CHARGES OF PLANT & MACHINERY  
FOR THE YEAR : 2010-11**

| Sl. No | Description of machinery                 | Unit | Hire charge in Rs | Fuel charge in Rs | Crew Charge in Rs. | Total in Rs |
|--------|--|------|-------------------|-------------------|--------------------|-------------|
| 1      | 2  | 3    | 4                 | 5                 | 6                  | 7           |
| 1      | Agitator car / Transit mixer 2 cum       | Hour | 594.10            | 582.30            | 160.40             | 1336.80     |
| 2      | Air compressor 5 cmm ( electric )        | Hour | 67.40             | 129.90            | 96.50              | 293.80      |
| 3      | Air compressor 7 cmm ( diesel )          | Hour | 165.80            | 476.40            | 123.60             | 765.80      |
| 4      | Air compressor 7 cmm ( electric )        | Hour | 96.50             | 173.20            | 96.50              | 366.20      |
| 5      | Air compressor 8.5 cmm ( diesel)         | Hour | 191.30            | 595.50            | 123.60             | 910.40      |
| 6      | Air compressor 8.5 cmm ( electric)       | Hour | 109.30            | 216.50            | 96.50              | 422.30      |
| 7      | Air compressor 15 cmm ( electric)        | Hour | 91.50             | 481.20            | 103.00             | 675.70      |
| 8      | Angle Dozer 90 hp                        | Hour | 1193.80           | 407.40            | 128.70             | 1729.90     |
| 9      | Batching plant 0.5 cum ( 6 Cum/hr)       | Hour | 91.00             | 57.70             | 185.30             | 334.00      |
| 10     | Batching plant 2 x 1.00 cum ( 15 Cum/hr) | Hour | 239.60            | 173.20            | 185.30             | 598.10      |
| 11     | Batching plant 2 x 1.50 cum ( 50 Cum/hr) | Hour | 306.70            | 211.70            | 185.30             | 703.70      |
| 12     | Bending machine 3000 x 12 mm             | Hour | 14.50             | 57.70             | 77.20              | 149.40      |
| 13     | Clamp shell and hoisting ropes           | Hour | 3.80              | 0.00              | 0.00               | 3.80        |
| 14     | Concrete bucket 1.5 cum                  | Hour | 12.00             | 0.00              | 0.00               | 12.00       |
| 15     | Concrete hand mixer 45 / 30 ltr          | Hour | 3.80              | 0.00              | 0.00               | 3.80        |
| 16     | Concrete mixer 300 / 200 ( diesel)       | Hour | 41.20             | 52.90             | 128.70             | 222.80      |
| 17     | Concrete mixer 300 / 200 ltr ( electric) | Hour | 37.60             | 19.20             | 128.70             | 185.50      |
| 18     | Concrete mixer 600 / 400 ( diesel)       | Hour | 69.90             | 105.90            | 128.70             | 304.50      |
| 19     | Concrete mixer 600 / 400 ltr ( electric) | Hour | 57.30             | 38.50             | 128.70             | 224.50      |
| 20     | Concrete paver 100 sqm / hr              | Hour | 257.60            | 0.00              | 247.10             | 504.70      |
| 21     | Convey mucker                            | Hour | 619.00            | 134.00            | 103.00             | 856.00      |
| 22     | Core drilling machine                    | Hour | 233.00            | 158.80            | 154.40             | 546.20      |
| 23     | Diesel generating set 30 KVA             | Hour | 45.40             | 423.50            | 77.20              | 546.10      |
| 24     | Diesel generating set 50 KVA             | Hour | 60.10             | 635.30            | 77.20              | 772.60      |
| 25     | Diesel Loco 45 hp                        | Hour | 225.80            | 357.30            | 96.50              | 679.60      |
| 26     | Dewatering pump 5 hp ( diesel )          | Hour | 7.70              | 52.90             | 64.40              | 125.00      |
| 27     | Dewatering pump 5 hp ( electric )        | Hour | 1.90              | 19.20             | 48.30              | 69.40       |
| 28     | Dewatering pump 10 hp ( diesel )         | Hour | 11.50             | 105.90            | 64.40              | 181.80      |
| 29     | Dewatering pump 10 hp ( electric )       | Hour | 3.00              | 38.50             | 48.30              | 89.80       |

| Sl. No | Description of machinery               | Unit | Hire charge in Rs | Fuel charge in Rs | Crew Charge in Rs. | Total in Rs |
|--------|--|------|-------------------|-------------------|--------------------|-------------|
| 1      | 2                                      | 3    | 4                 | 5                 | 6                  | 7           |
| 30     | Dewatering pump 20 hp ( diesel )       | Hour | 33.20             | 211.80            | 64.40              | 309.40      |
| 31     | Dewatering pump 20 hp ( electric       | Hour | 5.50              | 77.00             | 48.30              | 130.80      |
| 32     | Drifter                                | Hour | 201.50            | 0.00              | 193.10             | 394.60      |
| 33     | Drilling jumbo                         | Hour | 272.50            | 28.60             | 103.00             | 404.10      |
| 34     | Dumper 4.5 cum                         | Hour | 366.20            | 266.80            | 128.30             | 761.30      |
| 35     | Geophysical Electric resistivity meter | Hour | 60.30             | 0.00              | 0.00               | 60.30       |
| 36     | Grouting pump                          | Hour | 17.90             | 19.20             | 154.40             | 191.50      |
| 37     | Guniting / sand blast equipment        | Hour | 78.20             | 0.00              | 128.70             | 206.90      |
| 38     | Ice plant & accessories 30 t / day     | Hour | 129.70            | 548.50            | 77.20              | 755.40      |
| 39     | Jack hammer                            | Hour | 12.30             | 0.00              | 193.10             | 205.40      |
| 40     | Needle vibrator 40 mm ( petrol )       | Hour | 5.40              | 10.60             | 92.60              | 108.60      |
| 41     | Needle vibrator 40 mm ( electric )     | Hour | 6.10              | 3.80              | 92.60              | 102.50      |
| 42     | Needle vibrator 60 mm ( petrol )       | Hour | 5.60              | 15.90             | 92.60              | 114.10      |
| 43     | Needle vibrator 60 mm ( electric )     | Hour | 7.30              | 5.80              | 92.60              | 105.70      |
| 44     | Planing machine 4 m stroke             | Hour | 83.80             | 57.70             | 123.60             | 265.10      |
| 45     | Plate shearing machine up to 12 mm     | Hour | 29.20             | 77.00             | 77.20              | 183.40      |
| 46     | Pneumatic placer 0.5 cum               | Hour | 124.40            | 0.00              | 50.30              | 174.70      |
| 47     | Pneumatic tamper                       | Hour | 12.50             | 0.00              | 154.40             | 166.90      |
| 48     | Pug cutting machine                    | Hour | 5.50              | 1.90              | 0.00               | 7.40        |
| 49     | Pusher leg                             | Hour | 7.70              | 0.00              | 0.00               | 7.70        |
| 50     | Road roller diesel 10 t                | Hour | 146.80            | 476.40            | 123.30             | 746.50      |
| 51     | Shovel 0.50 cum 75 hp                  | Hour | 644.00            | 317.60            | 128.70             | 1090.30     |
| 52     | Shovel 0.85 cum 110 hp                 | Hour | 1097.50           | 582.30            | 128.70             | 1808.50     |
| 53     | Stationery derrick crane               | Hour | 62.30             | 0.00              | 0.00               | 62.30       |
| 54     | Tipper 5 cum                           | Hour | 329.50            | 200.10            | 100.20             | 629.80      |
| 55     | Tipping tub 1.5 cum                    | Hour | 30.90             | 0.00              | 0.00               | 30.90       |
| 56     | Tower crane 5 tonne                    | Hour | 663.10            | 100.10            | 103.00             | 866.20      |
| 57     | Transformer 250 KVA                    | Hour | 3575.00           | 0.00              | 0.00               | 3575.00     |
| 58     | Truck 10 t                             | Hour | 260.70            | 200.10            | 96.30              | 557.10      |
| 59     | Truck mounted derrick crane 5 t        | Hour | 396.20            | 200.10            | 96.30              | 692.60      |
| 60     | Upright drilling machine/grinder       | Hour | 16.90             | 19.20             | 100.60             | 136.70      |
| 61     | Ventilation fan 20 hp                  | Hour | 5.80              | 77.00             | 16.70              | 99.50       |
| 62     | Vibratory pad foot roller 8 t          | Hour | 862.30            | 688.20            | 154.10             | 1704.60     |

| <b>Sl. No</b> | <b>Description of machinery</b> | <b>Unit</b> | <b>Hire charge in Rs</b> | <b>Fuel charge in Rs</b> | <b>Crew Charge in Rs.</b> | <b>Total in Rs</b> |
|---------------|---------------------------------|-------------|--------------------------|--------------------------|---------------------------|--------------------|
| <b>1</b>      | <b>2</b>                        | <b>3</b>    | <b>4</b>                 | <b>5</b>                 | <b>6</b>                  | <b>7</b>           |
| 63            | Wagon drill                     | Hour        | 136.90                   | 0.00                     | 154.40                    | 291.30             |
| 64            | Water tanker 8000 ltr           | Hour        | 260.70                   | 200.10                   | 96.30                     | 557.10             |
| 65            | Welding set                     | Hour        | 12.20                    | 46.20                    | 0.00                      | 58.40              |
| 66            | Winch 35 hp ( electric )        | Hour        | 92.80                    | 94.30                    | 154.40                    | 341.50             |

# ANNEXURE

Copy of

**GOVERNMENT OF ANDHRA PRADESH**  
**ABSTRACT**

Mines and Minerals - Amendments to Rule 10 of the Andhra Pradesh Minor Mineral  
Concession Rules, 1966 - Orders - Issued.

**INDUSTRIES AND COMMERCE (M.I) DEPARTMENT**

**G.O.Ms.No.198.****Dated:13.08.2009**

Read the following:

1. G.O.Ms.No.217, Industries & Commerce (M-I) Dept., dated 29-09-2004.
2. From the Director of Mines & Geology, File No.25395/MR/ 2007, Dated:29.9.2007.
3. G.O.Ms.No.104, Ind. & Com. (M.I) Department, dt.15.5.2009.

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**ORDER :**

The following notification will be published in the Extra-Ordinary issue of the Andhra Pradesh Gazette dated 13.8.2009.

2. This order shall come into force with immediate effect.

**NOTIFICATION**

In exercise of the powers conferred by sub-section (1) of section 15 of the Mines and Minerals (Development & Regulation) Act, 1957 (Central Act 67 of 1957), the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries and Commerce(M-I) Department, dated 04-09-1967 and subsequently amended from time to time.

**AMENDMENTS**

In the said rules, Under Rule 10 for Schedules I and II the following shall be substituted, namely :

**“SCHEDULE -I**  
**RATES OF SEIGNIORAGE FEE**

| Sl.No. | Name of the Minor Mineral                   | Unit               | Rate of Seigniorage Fee<br>(in Rupees)  |
|--------|---|--------------------|---|
| 1      | 2   | 3                  | 4   |
| 1      | Building Stone                              | M <sup>3</sup> /MT | Rs.50/33<br>(Rupees Fifty /Thirty Three)  |
| 2      | Rough Stone/Boulders                        | M <sup>3</sup> /MT | Rs. 50/33<br>(Rupees Fifty /Thirty Three)   |
| 3      | Road Metal & Ballast                        | M <sup>3</sup> /MT | Rs. 50/33<br>(Rupees Fifty /Thirty Three)   |
| 3(a)   | Dimensional Stone<br>used for Kerbs & Cubes | MT                 | Rs.88/-<br>(Rupees Eighty Eight)  |
| 4      | Limekankar / Limestone                      | MT                 | The rate of Royalty as applicable<br>to limestone (other than L.D.<br>Grade) in respect of Major<br>Mineral as per the 2nd Schedule |

|       |   |                    |   |
|-------|---|--------------------|---|
|       |   |                    | of the Mines and Minerals (D&R) Act, 1957.  |
| 5     | Lime Shell  | MT                 | Rs.88/- (Rupees Eighty Eight)   |
| 6     | Marble  | M <sup>3</sup> /MT | Rs. 165/66 (Rupees One hundred and Sixty Five/Sixty Six)  |
| 7     | Mosaic Chips  | MT                 | Rs. 44/- (Rupees Forty Four)  |
| 8     | Muram/Gravel & Ordinary earth   | M <sup>3</sup> /MT | Rs. 22/14 (Rupees Twenty Two/ Fourteen)   |
| 9     | Ordinary sand/Sand manufactured from Boulders useful for Civil construction                     | M <sup>3</sup>     | Rs. 40/- (Rupees Forty)   |
| 10    | Shingle   | M <sup>3</sup>     | Rs. 17/- (Rupees Seventeen)   |
| 11    | Chalcedony Pebbles  | MT                 | Rs. 33/- ( Rupees Thirty Three)   |
| 12    | Fullers Earth/Bentonite   | MT                 | Rs. 110/- (Rupees One hundred and Ten) and Rs.44/- (Rupees Forty Four)                                  |
| 13    | Shale/Slate   | MT                 | Rs. 110/- (Rupees Hundred and Ten )   |
| 14    | Rehmati   | MT                 | Rs. 17/-(Rupees Seventeen )   |
| 15    | Limestone slabs   |                    |   |
| a(i)  | Colour  | -                  | Rs. 7/- (Rupees Seven) per Sq. Mt. or Rs. 88/-(Rupees Eighty Eight) per MT whichever is higher          |
| (ii)  | White   | -                  | Rs. 5/-(Rupees Five)per Sq. Mt. or Rs. 55/-(Rupees Fifty Five) per MT. whichever is higher              |
| (iii) | Black   | -                  | Rs. 4/- (Rupees Four) per Sq. Mt. or Rs. 44/- (Rupees Forty Four) per Mt. whichever is higher           |
| 16    | Ordinary clay, Silt and Brick Earth used in the manufacture of Bricks including Mangalore tiles | --                 | Rs. 3850/- (Rupees three thousand eight hundred and fifty only) per kiln per annum for Bricks and Tiles |

**17. Granite Useful for Cutting:****(Rates in Cubic Metre)**

|            | Item                         | Super Gang Saw above 300 CM X 180 CM. Size       | Mini Gang Saw above 270 Cm X 150 Cm. & less than 300 Cm X 180 Cm Size | Below 270 Cm. X 150 Cm. size  | Below 75 Cm. Size                                 |
|------------|------------------------------|--|---|---|---|
| <b>(a)</b> | Black Granite Galaxy Variety | Rs. 3300/- (Rupees Three Thousand Three hundred) | Rs. 2625/- (Rupees Two thousand Six hundred and twenty five only)     | Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only) | Rs. 1100/- (Rupees One thousand One hundred only) |

|     |  |  |  |   |  |
|-----|--|--|--|---|--|
| (b) | Black Granite other than Galaxy Variety  | Rs. 2475/-<br>(Rupees Two thousand Four hundred and Seventy Five only) | Rs.2000/-<br>(Rupees Two thousand only)                              | Rs.1,925/-<br>(Rupees One thousand Nine hundred and Twenty Five only) | Rs.825/-<br>(Rupees Eight hundred and Twenty Five only)  |
| (c) | Colour Granite Srikakulam Blue, Indian aurora of Nizamabad Dist., Leptinites of Coastal Dists., Black pearl of Praksam and Guntur Dists. | Rs. 2475/-<br>(Rupees Two thousand Four hundred and Seventy Five only) | Rs.2000/-<br>(Rupees Two thousand only)                              | Rs.1925/-<br>(Rupees One thousand Nine hundred and Twenty Five only)  | Rs.825/-<br>(Rupees Eight hundred and Twenty Five only)  |
| (d) | Colour Granite of other varieties  | RS.1,925/-<br>(Rupees One thousand Nine hundred and Twenty Five only)  | Rs. 1625/-<br>(Rupees One thousand Six hundred and Twenty five only) | Rs.1650/-<br>(Rupees One thousand Six hundred Fifty only)             | Rs.825/-<br>( Rupees Eight hundred and Twenty Five only) |

**SCHEDULE –II**  
**RATE OF DEAD RENT**  
**(PER HECTARE PER ANNUM)**

| Sl. No. | Name of the Minor Mineral   | Rate of Dead Rent per hectare per Annum                          |
|---------|---|--|
| 01      | Black Granite   | Rs.55,000/- (Rupees fifty five thousand only)                    |
| 02      | Colour Granite  | Rs.44,000/- (Rupees forty four thousand only)                    |
| 03      | Limestone other than classified as Major Minerals used for Lime burning for building construction purposes, Marble, Boulders, Building Stone Including Stone used for Road Metal, Ballast Concrete and other Construction purposes, Shale, Slate and Phyllites, Mosaic Chips, Fuller's Earth/Bentonite & Dimensional Stones used for cubes & kerbs, | Rs.27,500/- (Rupees twenty seven thousand and five hundred only) |
| 04      | Gravel, Morrum, Shingle, Limestone Slabs used for Flooring purposes Limekankar, Chalcedony pebbles used in the building purposes Limeshell for burning used for building purposes and Rehmatti.   | Rs.16,500/- (Rupees sixteen thousand and five hundred only)      |

**NOTE:-**1) The above rates are liable to be revised and amended from time to time by the State Government by notification in the Andhra Pradesh Gazette.

2) In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.