



**Government of Andhra Pradesh**

**Part I, Part II & Part IV  
SCHEDULE OF RATES  
AS PER  
A.P. REVISED STANDARD DATA  
FOR THE YEAR 2013-14  
(Effective from 1<sup>st</sup> June, 2013)**

**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/DEE10/5/AE/13305/Vol-36, Dt. 10.07.2013

**Sub:** Schedule of Rates as per Revised Standard Data for the year 2013-14 – Irrigation & CAD works (part-1), Road & Bridge Works (Part-2) 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 (PR) Lr. No. T2/DEE-5/Draft proposal rates/2013 Dt. 09-05-2013.  
3. E-in-C (PH) Lr. No. 146/T1/SoR/2013-14/2013 Dt. 20-05-2013.  
4. Industrial Consumer Index points obtained from Commissioner, labour department.  
5. Minutes of B.O.CE's meeting for Schedule of Rates held on dt.27-5-2013.  
6. T.O. Letter No. ENC/IW/P&M/EE-III/DEE-5/10/AE/13305/Vol-36/ dt. 08.07.2013 communicating the approved items to be incorporated in the Minutes

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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 2013-14 is approved based on the following.

The Engineer-in-Chief, Panchayat Raj Department has furnished draft rates for Road & Bridge Works items vide ref 2<sup>nd</sup> cited.

The Engineer-in-Chief, Public health Department has furnished draft rates for Public Health Work Items and Public Health materials vide ref 3<sup>rd</sup> cited.

**The ENC(R&B) Department has not furnished the SoR as per A.P.Revised Standard Data.**

**The CE(Buildings), R&B Department has yet to furnish the Part-III of Common SoR i.e., Buildings**

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 BoCE has recommended to delete the Seiniorage Charges from the material rates and to add the Seigniorage Charges to the Unit rate of work Item**

**while preparing the estimate. Accordingly, Seiniorage Charges are deducted from the material rates in Part-I of the SoR 2013-14.**

The minimum wages are calculated from the index points obtained from the Commissioner, labour department vide reference 4<sup>th</sup> cited for finalizing the rates for SoR 2013-14.

Based on the proposals, the draft Schedule of Rates for the year 2013-14 were reviewed and finalized in the annual Board of Chief Engineers meeting held on 27-5-2012.

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

The approved basic rates are applicable to the datas as per A.P.Revised Standard Data approved by the Government vide G.O. 1<sup>st</sup> cited. The Government approval is necessary to adopt any other data (i.e) MORT&H Data for adopting the Road & Bridge Works (Part-2).

The Lead & Lift Charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & Lift chapter in the I&CAD works (Part-I) of A.P. Revised Standard Data

One hard copy & compact disc containing Schedule of Rates is 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 2013-14. The unauthorized printing & selling of the SoR is strictly prohibited. The Schedule of Rates for 2013-14 will be in force until the new SoR comes in to force.

Any discrepancies found (or) corrections required in SoR 2013-14 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1<sup>st</sup> June of 2013.

The receipt of the proceedings may be acknowledged.

**Encl:** SoR 2013-14 containing Part-I(Irrigation & Works), Part-II (Road & Bridge Works) and Part-IV (Public Health Items)

Sd/- L. Narayan Reddy, dt. 10.07.2013  
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 2013-14 & 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, Irrigation & CAD Department, Red Hill, Hyderabad for necessary action.**

Sd/- L. Narayan Reddy, dt. 10.07.2013  
Engineer-in-Chief(I.W.)  
Chairman, BoCE (S.R.)

**Important – Read the Following**

**ANNEXURE- A**

- 1) The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed soft ware 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.

**The Leads for Steel and Cement shall be from the nearest market place to the Project area**

- 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/- L. Narayan Reddy, dt. 10.07.2013  
Engineer-in-Chief(I.W.)  
Chairman, BoCE (S.R.)

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## PART-I

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# **IRRIGATION & CAD WORKS**

# **PREAMBLE**



*PREAMBLE*

**I.0 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:**

20% 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 10Kms 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), Takkelapally of Karimnagar District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and

Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District, Anakapally of Vishakhapatnam District.

**D) AGENCY / TRIBAL AREAS:**

- a) 25% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located within 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 ½ 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: -**

**D) 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 Common item for all earth works (COM-MWRK- Manual Works) for corresponding soil and Standard data items. 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:****Note:**

The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges. Appropriate Seigniorage Charges for relevant materials are to be added to the Unit rate of work item in the estimates as fixed by the Government in G.O.Ms.No.198 (Industries and Commerce Dept.) dt:13.08.2009. 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 2013-14</b> |
|---------------|---|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>                   |
| <b>I.</b>     | <b>SKILLED CATEGORY:</b>  |                            |
| 1             | Bar bender  | 370                        |
| 2             | Black smith / Tin smith / Rivetor   | 350                        |
| 3             | Blaster   | 400                        |
| 4             | Carpenter Cl- I   | 350                        |
| 5             | Electrician ( Licensed )  | 400                        |
| 6             | Fitter Cl- I  | 350                        |
| 7             | Floor Polisher / Tile Layer   | 350                        |
| 8             | Foreman   | 400                        |
| 9             | Gauge reader  | 335                        |
| 10            | Maistry / Work Inspector with Non-technical Qualification<br>SSLC/SSC/HSC | 335                        |
| 11            | Mason Cl- I / Brick layer Cl- I   | 350                        |
| 12            | Mechanic Cl- I  | 350                        |
| 13            | Operator Air compressor / DG set  | 350                        |
| 14            | Operator Batching plant   | 400                        |
| 15            | Operator Bus/Ambulance/ Lorry/ Tanker                                     | 400                        |
| 16            | Operator Concrete / Asphalt mixer   | 350                        |
| 17            | Operator Concrete / Asphalt paver   | 350                        |
| 18            | Operator Concrete pump / Placer/ ice plant                                | 350                        |
| 19            | Operator Core drilling machine  | 400                        |
| 20            | Operator Crane/ Tower crane/ Cable way                                    | 400                        |
| 21            | Operator Drilling jumbo / Loco / Winch                                    | 350                        |
| 22            | Operator Grouting/ Guniting/ Shotcreting                                  | 350                        |
| 23            | Operator Jackhammer/Pneumatic tamper                                      | 350                        |
| 24            | Operator Pump / Ventilation fan   | 350                        |
| 25            | Operator Lathe/Drilling/Shearing machine                                  | 400                        |
| 26            | Operator Bending / Planing machine  | 350                        |
| 27            | Operator Road roller  | 350                        |

| Sl No.     | CATEGORY OF WORKER                          | S. Rate for 2013-14 |
|------------|---|---------------------|
| 1          | 2   | 3                   |
| 28         | Operator Shovel / Scraper / Dozer           | 400                 |
| 29         | Operator Spillway / Sluice gate             | 350                 |
| 30         | Operator Crusher / Conveyor / Mucker        | 350                 |
| 31         | Operator Tipper / Dumper / Transit mixer    | 400                 |
| 32         | Operator Concrete vibrator                  | 350                 |
| 33         | Operator Vibratory plain / pad foot roller  | 350                 |
| 34         | Operator Wagon drill / Drifter              | 400                 |
| 35         | Painter CI- I                               | 400                 |
| 36         | Plumber / Pipe fitter                       | 400                 |
| 37         | Sarang / Khalasi                            | 350                 |
| 38         | Spun pipe moulder                           | 350                 |
| 39         | Stone chiseller CI- I / Stone cutter CI- I  | 350                 |
| 40         | Struct. steel Fabricator / Marker / Erector | 400                 |
| 41         | Welder / Gas Cutter                         | 350                 |
| 42         | Welder (X-ray quality)                      | 400                 |
| <b>II.</b> | <b>SEMI SKILLED CATEGORY:</b>               |                     |
| 1          | Asphalt Sprayer / Boiler attendant          | 320                 |
| 2          | Bhisti                                      | 320                 |
| 3          | Boatman with boat                           | 335                 |
| 4          | Carpenter CI- II / Erector shuttering       | 320                 |
| 5          | Cartman with double bullock cart            | 365                 |
| 6          | Cartman with single bullock cart            | 345                 |
| 7          | Chavali / Navagani                          | 320                 |
| 8          | Crowbarman / Jumper man                     | 320                 |
| 9          | Fitter CI- II                               | 320                 |
| 10         | Gang man / Head / Survey mazdoor            | 320                 |
| 11         | Gardener / Trained mali                     | 320                 |
| 12         | Air compressor / DG set                     | 320                 |
| 13         | Helper Batching plant                       | 320                 |
| 14         | Helper Blasting                             | 320                 |

| Sl No.      | CATEGORY OF WORKER                      | S. Rate for 2013-14 |
|-------------|---|---------------------|
| 1           | 2                                       | 3                   |
| 15          | Helper Bus/ Ambulance/ Lorry/ Tanker    | 320                 |
| 16          | Helper Bending/Shearing/Planing machine | 320                 |
| 17          | Helper Carpenter                        | 320                 |
| 18          | Helper Concrete / Asphalt mixer         | 320                 |
| 19          | Helper Concrete / Asphalt paver         | 320                 |
| 20          | Helper Core drilling machine            | 320                 |
| 21          | Helper Crane/ Tower crane/ Cable way    | 320                 |
| 22          | Helper Drilling jumbo / Loco / Winch    | 320                 |
| 23          | Helper Fitter / Fabrication/Electrician | 320                 |
| 24          | Helper Grouting/ Guniting/ Shotcreting  | 320                 |
| 25          | Helper Jack hammer / Pneumatic tamper   | 320                 |
| 26          | Helper Laboratory / Instrumentation     | 320                 |
| 27          | Helper Road roller                      | 320                 |
| 28          | Helper Shovel / Scraper / Dozer         | 320                 |
| 29          | Helper Crusher / Conveyor / Mucker      | 320                 |
| 30          | Helper Tipper / Dumper/ Transit mixer   | 320                 |
| 31          | Helper Vibrator                         | 320                 |
| 32          | Helper Vibratory plain/ pad foot roller | 320                 |
| 33          | Helper Wagon drill/ Drifter             | 320                 |
| 34          | Lineman Electric / Telephone            | 320                 |
| 35          | Mason Cl- II / Brick layer Cl-II        | 320                 |
| 36          | Mechanic Cl- II                         | 320                 |
| 37          | Painter Cl- II                          | 320                 |
| 38          | Patkari / Neeraganti / Sowdy            | 320                 |
| 39          | Stone Chiseller Cl- II                  | 320                 |
| 40          | Stone breaker / Hammer man              | 320                 |
| 41          | Valve man / Canal sluice operator       | 320                 |
| <b>III.</b> | <b>UN-SKILLED CATEGORY:</b>             |                     |
| 1           | Cement / Asphalt handling mazdoor       | 280                 |
| 2           | Civic worker                            | 280                 |
| 3           | <b>Man mazdoor</b>                      | 280                 |

| Sl No.                     | CATEGORY OF WORKER   | S. Rate for 2013-14 |
|----------------------------|--|---------------------|
| 1                          | 2  | 3                   |
| 4                          | Woman mazdoor  | 280                 |
| 5                          | Watchman   | 280                 |
| <b>IV. OTHER CATEGORY:</b> |  |                     |
| 1                          | Care-taker / conductor / Lift Attender                                       | 335                 |
| 2                          | Cook / Mess man  | 335                 |
| 3                          | Dhobi  | 335                 |
| 4                          | Diploma Engineer / Surveyor  | 500                 |
| 5                          | Diver with headgear  | 400                 |
| 6                          | Graduate / Laboratory Assistant  | 400                 |
| 7                          | Graduate Engineer/ Geologist   | 670                 |
| 8                          | Horticulture Assistant / Photographer  | 335                 |
| 9                          | ITI certificate holder / Tracer / Printer                                    | 400                 |
| 10                         | Literate mazdoor   | 315                 |
| 11                         | Stenographer / Computer Operator   | 440                 |
| 12                         | Telephone / Wireless Operator  | 390                 |
| 13                         | Typist / Job Typist  | 390                 |
| 14                         | CAD operator with Diploma in Engineering/General degree with CAD certificate | 550                 |
| 15                         | Jeep Driver  | 400                 |
| 16                         | Data Processing Operator   | 550                 |

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 : 2013-14  
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 are **exclusive 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 2013-14       |
|--------|---|-------|---------------------------|
| 1      | 2   | 3     | 4                         |
| 1      | Acetylene gas   | cum   | 320                       |
| 2      | Asphalt 80/100 Grade  | Kg    | 40                        |
| 3      | Binding wire  | Kg    | 70                        |
| 4      | Burnt stone slab 10 cm thick  | sqm   | 280                       |
| 5      | Cement 43 Gr (including loading charges)<br><b>Note: As per Monthly rate fixed by Sub-Committee.</b>  | tonne | 4100<br>(Rate for 5/2013) |
| 6      | Chequered plate   | Kg    | 60                        |
| 7      | Coarse aggregate 10-4.75 mm(excluding Seigniorage charges)  | cum   | 830                       |
| 8      | Coarse aggregate 20-10 mm(excluding Seigniorage charges)  | cum   | 1150                      |
| 9      | Coarse aggregate 40-20 mm(excluding Seigniorage charges)  | cum   | 1090                      |
| 10     | Coarse aggregate 80-40 mm(excluding Seigniorage charges)  | cum   | 605                       |
|        | The aggregate rates mentioned above (from SI.No.7 to SI.No.10) are <b>exclusive of Seigniorage charges but</b> including 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  | 42                        |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>  | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 12            | Copper sheet 16 SWG   | kg          | 665                        |
| 13            | Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)   | Each        | 18                         |
| 14            | Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)   | Each        | 21                         |
| 15            | Curing Compound   | Ltr         | 125                        |
| 16            | D – cord  | Rm          | 16                         |
| 17            | Delay - noiseless trunk   | Each        | 21                         |
| 18            | Detonating fuse coil  | Rm          | 11                         |
| 19            | Detonating shock tube / Cord relays   | Rm          | 65                         |
| 20            | Detonator delay type  | Each        | 23                         |
| 21            | Detonator electric  | Each        | 13                         |
| 22            | Detonator ordinary  | Each        | 9                          |
| 23            | Empty cement bag  | Each        | 4.5                        |
| 24            | Explosive ANFO  | kg          | 40                         |
| 25            | Explosive ANFO high strength booster  | kg          | 75                         |
| 26            | Explosive small dia ( Kelvex-220 or equivalent)   | kg          | 70                         |
| 27            | (a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items) (excluding Seigniorage charges)               | cum         | 385                        |
|               | (b)Fineaggregate/Sand(unscreened)for filling(excluding Seigniorage charges)   |             | 285                        |
| 28            | Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges) | cum         | 505                        |
| 29            | Geo-textile ( filter fabric ) 160 gsm   | sqm         | 107                        |
| 30            | Geo-textile ( filter fabric ) 200 gsm   | sqm         | 128                        |
| 31            | Geo-textile ( filter fabric ) 250 gsm   | sqm         | 150                        |
| 32            | G I Pipe 100 mm dia B Class   | Rm          | 735                        |
| 33            | G I Pipe 15 mm dia A class  | Rm          | 105                        |
| 34            | G I pipe 25 mm dia A class  | Rm          | 160                        |
| 35            | G I pipe 40 mm dia B class  | Rm          | 290                        |
| 36            | G I pipe 50 mm dia A class  | Rm          | 320                        |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>   | <b>UNIT</b> | <b>S. Rate for 2013-14</b>  |
|---------------|--|-------------|-----------------------------|
| <b>1</b>      | <b>2</b>   | <b>3</b>    | <b>4</b>                    |
| 37            | G I Pipe 80 mm dia B Class   | Rm          | 490                         |
| 38            | G.I Bolts / Nuts and Washers   | kg          | 106                         |
| 39            | G.I sheet ( plain )  | tonne       | 66000                       |
| 40            | Hariyala turfing sods  | sqm         | 28                          |
| 41            | Hectometer stone one line dressed  | Each        | 230                         |
| 42            | Hemp yarn  | kg          | 72                          |
| 43            | Honne wood planks  | cum         | 54000                       |
| 44            | Hume pipe with collar 150 mm dia   | Rm          | 320                         |
| 45            | Hume pipe with collar 300 mm dia   | Rm          | 630                         |
| 46            | J- Bolts 30 cm long  | Each        | 33                          |
| 47            | Jungle wood planks   | cum         | 21000                       |
| 48            | Khandki stone 15 to 20 cm height   | Each        | 11                          |
| 49            | Khandki stone 20 to 25 cm height   | Each        | 13                          |
| 50            | Khandki stone 25 to 30 cm height   | Each        | 16                          |
| 51            | Kilometer stone one line dressed   | Each        | 430                         |
| 52            | LDPE sheet ( Geo membrane ) 500 micron thick   | sqm         | 85                          |
| 53            | LDPE sheet ( Geo membrane ) 750 micron thick   | sqm         | 125                         |
| 54            | LDPE sheet ( Geo membrane ) 1000 micron thick  | sqm         | 175                         |
| 55            | M S Bolts / Nuts / Washers   | kg          | 85                          |
| 56            | Murum(including loading charges <b>but excluding</b> Seigniorage charges )   | cum         | 103                         |
| 57            | Oxalic acid  | Ltr         | 74                          |
| 58            | Oxygen gas   | cum         | 50                          |
| 59            | PVC sealing strip  | Rm          | 44                          |
| 60            | PVC water stopper 310 mm wide  | Rm          | 485                         |
| 61            | PVC pipe of 100 mm dia   | Rm          | 175                         |
| 62            | Reinforcement steel (including loading charges) (HYSD/TMT )<br><b>Note: As per Monthly rate fixed by Sub-Committee</b> | tonne       | 43,000<br>(Rate for 5/2013) |
| 63            | Resin bond Cement capsule  | Each        | 65                          |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>  | <b>UNIT</b> | <b>S. Rate for 2013-14</b>         |
|---------------|---|-------------|------------------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                           |
| 64            | Rough stone 20 x 20 x 75 cm ( Including Loading charges <b>but excluding</b> Seigniorage Charges)                                     | Each        | 22                                 |
| 65            | Shahabad stone slab (including loading charges <b>but excluding</b> Seigniorage charges)  | sqm         | 218                                |
| 66            | Stone chips (at dump yard/Spoil)(including loading charges <b>but excluding</b> Seigniorage charges)                                  | cum         | 165                                |
| 67            | Stone chips ( at quarry )(including loading charges <b>but excluding</b> Seigniorage charges)   | cum         | 330                                |
| 68            | Structural steel angle / channel / beam / bars (including loading charges)<br><b>Note: As per Monthly rate fixed by Sub-Committee</b> | tonne       | 44,000<br><b>(Rate for 5/2013)</b> |
| 69            | Structural steel plate / flats (including loading charges)<br><b>Note: As per Monthly rate fixed by Sub-Committee</b>                 | tonne       | 41800<br><b>(Rate for 5/2013)</b>  |
| 70            | Super Plasticizer (Conplast RP-264 or equivalent )  | kg          | 75                                 |
| 71            | Synthetic Enamel paint 1st quality  | Ltr         | 238                                |
| 72            | Synthetic adhesive ( Resin + Hardener )   | Kg          | 338                                |
| 73            | Tar felt joint filler board 12 mm thick   | sqm         | 420                                |
| 74            | Tar felt joint filler board 20 mm thick   | sqm         | 630                                |
| 75            | Through stones 20 x 20 x 30 to 45 cm (including loading charges <b>but excluding</b> Seigniorage charges)                             | Each        | 22                                 |
| 76            | Through stones 25 x 25 x 45 to 60 cm long (including loading charges <b>but excluding</b> Seigniorage charges)                        | Each        | 38                                 |
| 77            | Through stones 30 x 30 x 65 to 75 cm long (including loading charges <b>but excluding</b> Seigniorage charges)                        | Each        | 57                                 |
| 78            | Un-coursed rubble stones ( at dump yard /Spoil) (including loading charges <b>but excluding</b> Seigniorage charges)                  | cum         | 150                                |
| 79            | Un-coursed rubble stones ( at quarry )( including loading charges <b>but excluding</b> Seigniorage charges)                           | cum         | 280                                |
| 80            | Water proofing compound   | kg          | 72                                 |
| 81            | Welding electrodes 4 mm dia   | Each        | 13                                 |
| 82            | Wire brush  | Each        | 40                                 |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No.</b> | <b>DESCRIPTION OF MATERIAL</b>                        | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 83            | Wire mesh 20 gauge                                    | sqm         | 212                        |
| 84            | Zinc chromate red oxide primer paint                  | Ltr         | 170                        |
| 85            | inorganic zinc silicate                               | Ltr         | 650                        |
| 86            | solvent less coal tar epoxy paint                     | Ltr         | 256                        |
| 87            | Zinc phosphate primer                                 | Ltr         | 210                        |
| 88            | Allkyd based iron oxide paint                         | Ltr         | 185                        |
| 89            | a) Cost of hdpe (80mm dia)                            | Rm          | 620                        |
|               | b) light black MS casing pipe<br>80mm dia (4mm thick) | Rm          | 670                        |
| 90            | welded steel wire fabric 100X100X5 mm size            | Kg          | 150                        |
| 91            | Protective Mastic                                     | Ltr         | 469                        |
| 92            | Solventless coal tar epoxy (brown)                    | Ltr         | 363                        |

**ADDITIONAL MATERIALS FOR GATES & HOISTS  
FOR THE YEAR: 2013-14**

**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.
- b. For other materials the rates shall be prevailing market rates.

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>                                    | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 1             | Alloy steel ( IS : 1570-carbon steel ) shafts                     | Kg          | 195                        |
| 2             | Alloy steel ( IS : 1570-stainless steel ) pins                    | Kg          | 420                        |
| 3             | Bolt / Nut / Washer ( hot dipped galvanized )                     | Kg          | 130                        |
| 4             | Bolt / Nut / Washer ( stainless steel )                           | Kg          | 340                        |
| 5             | Bronze/Aluminum alloy(IS:305)bearings/bushes                      | Kg          | 860                        |
| 6             | Cast iron blocks  | Kg          | 80                         |
| 7             | Cast steel drums / gears  | Kg          | 210                        |
| 8             | Cast steel pinions  | Kg          | 200                        |
| 9             | Cast steel wheels / pulleys / hubs / rollers / retainers          | Kg          | 180                        |
| 10            | Chemical for de-greasing/ derusting/phosphate coating             | Ltr         | 135                        |
| 11            | Coal tar epoxy paint  | Ltr         | 200                        |
| 12            | Forged steel hooks / shackles                                     | Kg          | 260                        |
| 13            | MS pipe 200 / 300 mm dia  | Kg          | 175                        |
| 14            | MS pipe 32 mm dia   | Rm          | 185                        |
| 15            | MS pipe 25 mm dia   | Rm          | 150                        |
| 16            | Rubber bottom seal ( IS : 11855 )                                 | Rm          | 845                        |
| 17            | Rubber side seal ( music note type Teflon claded ) ( IS : 11855 ) | Rm          | 2050                       |
| 18            | Rubber side seal ( music note type uncladed ) ( IS : 11855 )      | Rm          | 1650                       |
| 19            | Rubber side seal Z-type ( IS : 11855 )                            | Rm          | 2650                       |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No.</b> | <b>DESCRIPTION OF MATERIAL</b>                                    | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 20            | Rubber corner seal ( Teflon claded ) ( IS : 11855 )               | Rm          | 4100                       |
| 21            | Rubber corner seal ( un claded ) ( IS : 11855 )                   | Rm          | 3400                       |
| 22            | Stainless steel plates / flats                                    | Kg          | 275                        |
| 23            | Welding electrode 4 mm dia x 450 mm ( radiographic low hydrogen ) | Each        | 18                         |
| 24            | Welding electrode 4 mm dia x 450 mm ( stainless steel )           | Each        | 26                         |
| 25            | Wire rope 6x37 constn ( IS : 2266 )                               | Kg          | 250                        |
| 26            | Zinc  | Kg          | 165                        |
| 27            | Zinc rich ( zinc content : 90 % ) epoxy primer                    | Ltr         | 650                        |

**MATERIALS FOR POWER SUPPLY WORKS  
FOR THE YEAR : 2013-14**

| <b>Sl No.</b> | <b>Description of Material</b>           | <b>Unit</b> | <b>S. Rate for 2013-14</b>   |
|---------------|--|-------------|--|
| 1             | Electric pole with fixtures              | Each        | For establishing Electrical Sub-Stations at the Project Sites wherever necessary, the rates approved by APTRANSCO may be followed. |
| 2             | Flood light 500 W                        | Each        |  |
| 3             | Flood light set                          | Each        |  |
| 4             | Flousscent tube light 40 W               | Each        |  |
| 5             | Flousscent tube light set                | Each        |  |
| 6             | HT / LT Circuit breaker with accessories | Set         |  |
| 7             | HT / LT Line conductor                   | 1000 m      |  |
| 8             | PVC Armoured cable 10 sqmm and below     | Rm          |  |
| 9             | PVC Armoured cable 16 sqmm               | Rm          |  |
| 10            | PVC Armoured cable 25 sqmm               | Rm          |  |
| 11            | PVC Armoured cable 70 sqmm               | Rm          |  |



**DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT**  
**FOR THE YEAR: 2013-14**

**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.

| Sl No: | DESCRIPTION OF MACHINERY / EQUIPMENT                   | UNIT | S. Rate for 2013-14 |
|--------|--|------|---------------------|
| 1      | 2  | 3    | 4                   |
| 1      | Agitator car / Transit mixer 2 cum ( excluding tyres ) | Each | 21,50,000           |
|        | tyres and tubes 6 sets                                 |      | 86,000              |
| 2      | Air compressor 5 cmm electric                          | Each | 7,10,000            |
| 3      | Air compressor 7 cmm diesel                            | Each | 9,50,000            |
| 4      | Air compressor 7 cmm electric                          | Each | 8,65,000            |
| 5      | Air compressor 8.5 cmm diesel                          | Each | 10,85,000           |
| 6      | Air compressor 8.5 cmm electric                        | Each | 11,20,000           |
| 7      | Air compressor 15 cmm electric                         | Each | 13,70,000           |
| 8      | Angle Dozer 90 hp                                      | Each | 54,75,000           |
| 9      | Batching plant 0.5 cum with accessories                | Each | 12,00,000           |
| 10     | Batching plant 2 x 1.00 cum with accessories           | Each | 42,45,000           |
| 11     | Batching plant 2 x 1.50 cum with accessories           | Each | 54,25,000           |
| 12     | Bending machine  | Each | 5,30,000            |
| 13     | Clamp shell and hoisting ropes                         | Each | 30,000              |
| 14     | Concrete bucket 1.5 cum                                | Each | 56,000              |
| 15     | Concrete hand mixer 45/30 ltr                          | Each | 15,500              |
| 16     | Concrete mixer 300/200 ltr(diesel)                     | Each | 1,50,000            |
| 17     | Concrete mixer 300/200 ltr ( electric )                | Each | 1,45,000            |
| 18     | Concrete mixer 600/400 ltr(diesel)                     | Each | 2,60,000            |
| 19     | Concrete mixer 600/400 ltr ( electric )                | Each | 2,55,000            |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No:</b> | <b>DESCRIPTION OF MACHINERY / EQUIPMENT</b> | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>                                    | <b>3</b>    | <b>4</b>                   |
| 20            | Concrete paver 100 Sqm / hr                 | Each        | 23,61,000                  |
| 21            | Concete placer pump / hour                  | Hour        | 120.80                     |
| 22            | Convey mucker ( excluding tyres )           | Each        | 38,55,000                  |
|               | tyres and tubes 6 sets                      |             | 86,000                     |
| 23            | Core drilling machine                       | Each        | 11,00,000                  |
| 24            | Diesel generating set 30 KVA                | Each        | 4,95,000                   |
| 25            | Diesel generating set 50 KVA                | Each        | 6,40,000                   |
| 26            | Diesel Loco 45 hp                           | Each        | 21,20,000                  |
| 27            | Dewatering pump 5 hp diesel                 | Each        | 40,000                     |
| 28            | Dewatering pump 5 hp electric               | Each        | 24,500                     |
| 29            | Dewatering pump 10 hp diesel                | Each        | 60,000                     |
| 30            | Dewatering pump 10 hp electric              | Each        | 55,000                     |
| 31            | Dewatering pump 20 hp diesel                | Each        | 1,90,000                   |
| 32            | Dewatering pump 20 hp electric              | Each        | 1,00,000                   |
| 33            | Drifter                                     | Each        | 10,58,000                  |
| 34            | Drilling jumbo ( excluding tyres )          | Each        | 13,02,000                  |
|               | tyres and tubes 6 sets                      |             | 86,000                     |
| 35            | Dumper 4.5 cum ( excluding tyres )          | Each        | 14,50,000                  |
|               | tyres and tubes 6 sets                      |             | 86,000                     |
| 36            | Geophysical Ele.resistivity meter           | Each        | 4,75,000                   |
| 37            | Grouting pump                               | Each        | 1,02,000                   |
| 38            | Guniting / sand blasting equipment          | Each        | 2,80,000                   |
| 39            | Ice plant with accessories 30 t / day       | Each        | 22,80,000                  |
| 40            | Jack hammer                                 | Each        | 65,000                     |
| 41            | Needle vibrator 40 mm petrol                | Each        | 20,000                     |
| 42            | Needle vibrator 40 mm electric              | Each        | 21,000                     |
| 43            | Needle vibrator 60 mm petrol                | Each        | 21,500                     |
| 44            | Needle vibrator 60 mm electric              | Each        | 25,500                     |
| 45            | Planing machine 4 m stroke                  | Each        | 7,80,000                   |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No:</b> | <b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>         | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| 46            | Plate shearing machine up to 12 mm                  | Each        | 4,25,000                   |
| 47            | Pneumatic placer 0.5 cum                            | Each        | 5,80,000                   |
| 48            | Pneumatic tamper                                    | Each        | 85,000                     |
| 49            | Pug cutting machine                                 | Each        | 16,000                     |
| 50            | Pusher leg  | Each        | 52,000                     |
| 51            | Road roller diesel 10 t                             | Each        | 8,50,000                   |
| 52            | Shovel 0.50 cum 75 hp                               | Each        | 37,50,000                  |
| 53            | Shovel 0.85 cum 110 hp                              | Each        | 63,80,000                  |
| 54            | Stationery derrick crane 5 t                        | Each        | 6,53,000                   |
| 55            | Tipper 5 cum ( excluding tyres )                    | Each        | 16,25,000                  |
|               | tyres and tubes 6 sets                              |             | 86,000                     |
| 56            | Tipping tub 1.5 cum                                 | Each        | 2,40,000                   |
| 57            | Tower crane 5 tonne                                 | Each        | 74,75,000                  |
| 58            | Transformer 250 KVA                                 | Each        | 4,25,000                   |
| 59            | Truck 10 t ( excluding tyres )                      | Each        | 14,75,000                  |
|               | tyres and tubes 6 sets                              |             | 86,000                     |
| 60            | Truck mounted derrick crane 5 t ( excluding tyres ) | Each        | 19,60,000                  |
|               | tyres and tubes 6 sets                              |             | 86,000                     |
| 61            | Upright drilling machine                            | Each        | 56,000                     |
| 62            | Ventilation fan 20 hp                               | Each        | 2,60,000                   |
| 63            | Vibratory pad foot roller 8 t                       | Each        | 29,50,000                  |
| 64            | Wagon drill   | Each        | 6,50,000                   |
| 65            | Water tanker 8000 ltr (excluding tyres)             | Each        | 14,22,000                  |
|               | tyres and tubes 6 sets                              |             | 86,000                     |
| 66            | Welding set   | Each        | 48,000                     |
| 67            | Winch 35 hp electric                                | Each        | 3,75,000                   |
| 68            | Hydraulic Truck Crane 30T                           | Each        | 1,44,84,250                |
|               | tyres and tubes 6 sets                              |             | 1,85,220                   |
| 69            | Hydraulic Truck Crane 16T                           | Each        | 1,03,90,875                |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No:</b> | <b>DESCRIPTION OF MACHINERY / EQUIPMENT</b> | <b>UNIT</b> | <b>S. Rate for 2013-14</b> |
|---------------|---|-------------|----------------------------|
| <b>1</b>      | <b>2</b>                                    | <b>3</b>    | <b>4</b>                   |
|               | tyres and tubes 6 sets                      |             | 1,85,220                   |
| 70            | Heavy Duty Airless Spray Painting Equipment | Each        | 4,87,770                   |

**ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR : 2013-14**

| <b>Sl No.</b> | <b>DESCRIPTION OF MATERIAL</b>           | <b>UNIT</b> | <b>S Rate for 2013-14</b> |
|---------------|--|-------------|---------------------------|
| <b>1</b>      | <b>2</b>                                 | <b>3</b>    | <b>4</b>                  |
| 1             | Casing shoe bit                          | Each        | 10,000                    |
| 2             | Diamond core bit BX size                 | Each        | 10,000                    |
| 3             | Diamond core bit NX size                 | Each        | 12,000                    |
| 4             | Double tube core barrel                  | Each        | 12,800                    |
| 5             | Extension drill rod with coupling sleeve | Rm          | 2000                      |
| 6             | Jack hammer drill rod 1.5 m              | Each        | 3800                      |
| 7             | Jack hammer drill rod 2.5 m              | Each        | 5900                      |
| 8             | Nozzle for Guniting / sand blasting gun  | Each        | 700                       |
| 9             | Paving Cylinder                          | Each        | 27,000                    |
| 10            | Rails 30R ( 30 kg / m )                  | tonne       | 50,000                    |
| 11            | Reamer shell                             | Each        | 5000                      |
| 12            | T.C. Cross bit 50 mm dia                 | Each        | 5000                      |
| 13            | T.C. Cross bit 75 mm dia                 | Each        | 10,000                    |
| 14            | T.C. Cross bit 100 mm dia                | Each        | 12,000                    |
| 15            | Tyres and Tubes for truck                | Set         | 18,000                    |
| 16            | Wire rope 16 mm dia                      | Rm          | 265                       |
| 17            | Excavation of drain with Excavator       | cum         | 35                        |

**AGGREGATE CRUSHING & PROCESSING PLANT**

| Sl No. | DESCRIPTION OF MATERIAL                               | UNIT | S Rate for 2013-14 |
|--------|---|------|--------------------|
| 1      | 2   | 3    | 4                  |
| 1      | Jaw crusher 900 x 500 mm ( 120 tph ) with 50 hp motor | Each | 19,25,000          |
| 2      | Jaw crusher 500 x 300 mm ( 60 tph ) with 30 hp motor  | Each | 10,95,000          |
| 3      | Jaw crusher 400 x 225 mm ( 10 tph ) with 25 hp motor  | Each | 5,60,000           |
| 4      | Jaw plates 900 x 500 mm ( serreted )                  | Set  | 1,40,000           |
| 5      | Jaw plates 500 x 300 mm ( serreted )                  | Set  | 63,000             |
| 6      | Jaw plates 400 x 225 mm ( serreted )                  | Set  | 45,000             |
| 7      | Nylon Conveyor belt 3 ply 600 mm width                | Rm   | 2,000              |
| 8      | Nylon Conveyor belt 3 ply 1000 mm width               | Rm   | 3,000              |

**OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT FOR THE YEAR : 2013-14**

- 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.

| Sl No. | DESCRIPTION OF MATERIAL  | UNIT        | S Rate for 2013-14 |
|--------|--|-------------|--------------------|
| 1      | 2  | 3           | 4                  |
| 1      | Air hose 25 mm dia   | Rm          | 167                |
| 2      | Air hose 50 mm dia   | Rm          | 298                |
| 3      | Demand charges (HT-I : General-11 KVA category) on power supply  | KVA / month | 350                |
| 4      | Diesel   | Ltr         | 54                 |
| 5      | <b>Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A): General-11 KVA category)</b> | Kwhr        | 8.50               |
| 6      | Excise duty on Gates / Hoist supplies  | %           | 0%                 |
| 7      | Insurance charges on machinery   | % / annum   | 1%                 |
| 8      | Interest on capital cost   | % / annum   | 12.5%              |

**Part I-Basic Input data for Irrigation items – Common SoR 2013-14**

| <b>Sl No.</b> | <b>DESCRIPTION OF MATERIAL</b>                            | <b>UNIT</b> | <b>S Rate for 2013-14</b> |
|---------------|---|-------------|---------------------------|
| <b>1</b>      | <b>2</b>  | <b>3</b>    | <b>4</b>                  |
| 9             | Lubricants  | Ltr         | 275                       |
| 10            | Petrol  | Ltr         | 69                        |
| 11            | Rivets  | Kg          | 99                        |
| 12            | Road tax on transport vehicles                            | Rs./annum   | 18,132                    |
| 13            | Shalimastic sealing compound                              | Kg          | 91                        |
| 14            | Shutter oil   | Ltr         | 78                        |
| 15            | Structural steel fabrication                              | Kg          | 24                        |
| 16            | Sundries ( Lump sum for un quantified inputs )            | LS          | 41                        |
| 17            | Water hose ( pressure ) 20 mm dia                         | Rm          | 219                       |
| 18            | Steel wedges  | LS          | 16                        |
| 19            | Elbows / Nipple / Plugs etc.,                             | LS          | 17                        |
| 20            | Soldering materials                                       | LS          | 17                        |
| 21            | Steam circulation arrangement                             | LS          | 17                        |
| 22            | Fuel charges ( gas for heating )                          | LS          | 17                        |
| 23            | Vulcanizing materials                                     | LS          | 17                        |
| 24            | Other accessories / controls / junctions                  | LS          | deleted                   |
| 25            | Miscellaneous fittings / switches etc                     | LS          | deleted                   |
| 26            | Anchors / supports for cables / lights                    | LS          | deleted                   |
| 27            | Civil works for foundations / pedestals / duct etc        | LS          | deleted                   |
| 28            | Gas cutting set ( 2 No's 15 m hose and nozzle unit )      | Each        | 14,203                    |
| 29            | Grease  | Kg          | 254                       |
| 30            | Welding holder set ( cable / holder / gloves / mask etc ) | Each        | 7331                      |
| 31            | Use rate of ropes   | LS          | 150                       |

**MATERIALS FOR GATES AND HOISTS**  
**FOR THE YEAR : 2013-14**

| <b>SI No.</b> | <b>DESCRIPTION OF MATERIAL</b>              | <b>UNIT</b> | <b>S Rate for 2013-14</b> |
|---------------|---|-------------|---------------------------|
| 1             | Worm reducers                               | Each        | 2,24,400                  |
| 2             | Electric motor 20 hp(Double Shaft)          | Each        | 1,21,000                  |
| 3             | Electric motor 17.5 hp(Double Shaft)        | Each        | 85,800                    |
| 4             | Electric motor 12.5 hp(Double Shaft)        | Each        | 72,600                    |
| 5             | Electric motor 5 hp(Double Shaft)           | Each        | 33,000                    |
| 6             | Electric motor 3 hp (Double Shaft)          | Each        | 23,100                    |
| 7             | Electric motor 2 hp (Double Shaft)          | Each        | 121,00                    |
| 8             | Floating shaft 300 mm dia                   | Kg          | 180                       |
| 9             | Manual operating system                     | Each        | 28,820                    |
| 10            | Gate position indicator                     | Each        | 1,95,800                  |
| 11            | Ele-magnetic brake                          | Each        | 35,200                    |
| 12            | Electric cable / switch / control panel etc | LS          | 50,380                    |
| 13            | Wire rope sockets                           | Each        | 4,620                     |

**Materials other than covered under irrigation  
For the year 2013-14  
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 are **exclusive 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 2013-14                                |
|---------|---|------|--|
| 1       | 2   | 3    | 4  |
| M-002   | Quarried stone 150 - 200 mm size for Hand Broken <b>(Excluding Seigniorage charges)</b>   | Cum  | 140  |
| M-003   | Boulder with minimum size of 300 mm for Pitching <b>(Excluding Seigniorage charges)</b>   | Cum  | 156  |
| M-004   | Coarse sand for filling <b>(Excluding Seigniorage charges)</b>  | Cum  | Rate as per item no.27(b) of material of I&CAD     |
| M-005   | Coarse sand for mortar <b>(Excluding Seigniorage charges)</b>   | Cum  | Rate as per item no.27(a) of material of I&CAD     |
| M-006   | Fine Sand <b>(Excluding Seigniorage charges)</b>  | Cum  | Rate as per item no.28 of material of I&CAD        |
| M-007   | Murum <b>(Excluding Seigniorage charges)</b>  | Cum  | Rate as per item no.56 of Material rates of I&CAD. |
| M-008   | Gravel/Quarry spall <b>(Excluding Seigniorage Charges)</b>  | Cum  | 98   |
| M-009   | Granular Material or hard murum for GSB works   | Cum  | Deleted  |
| M-010   | Granular Material or hard murum for GSB works <b>(Excluding Seigniorage charges)</b>  | Cum  | 89   |
| M-011   | Fly ash conforming to IS: 3812 ( Part II & I)   | Cum  | 70   |
|         | For item No.M-012 to M-055 the note shall be as follows<br>1) The rates mentioned are <b>exclusive</b> of Seigniorage charges <b>but inclusive of</b> 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) |      |  |



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| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> | <b>S. Rate for 2013-14</b> |
|----------------|---|-------------|----------------------------|
| <b>1</b>       | <b>2</b>  | <b>3</b>    | <b>4</b>                   |
| M-012          | Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) <b>(excluding Seinoorage Charges)</b>        | Cum         | 335                        |
| M-013          | Close graded Granular sub-base Material 53 mm to 9.5 mm <b>(excluding Seinoorage Charges)</b>                       | Cum         | 648                        |
| M-014          | Close graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinoorage Charges)</b>                     | Cum         | 665                        |
| M-015          | Close graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinoorage Charges)</b>                     | Cum         | 690                        |
| M-016          | Close graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinoorage Charges)</b>                     | Cum         | 575                        |
| M-017          | Close graded Granular sub-base Material 9.5 mm to 2.36 mm <b>(excluding Seinoorage Charges)</b>                     | Cum         | 565                        |
| M-018          | Close graded Granular sub-base Material 4.75mm to 2.36 mm <b>(excluding Seinoorage Charges)</b>                     | Cum         | 495                        |
| M-019          | Close graded Granular sub-base Material 4.75mm to 75 micron mm <b>((excluding Seinoorage Charges)</b>               | cum         | 475                        |
| M-020          | Close graded Granular sub-base Material 2.36 mm <b>(excluding Seinoorage Charges)</b>                               | Cum         | 475                        |
| M-021          | Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve. <b>(excluding Seinoorage Charges)</b> | Cum         | 340                        |
| M-022          | Coarse graded Granular sub-base Material 2.36 mm & below <b>(excluding Seinoorage Charges)</b>                      | Cum         | 425                        |
| M-023          | Coarse graded Granular sub-base Material 4.75mm to 75 micron mm <b>(excluding Seinoorage Charges)</b>               | cum         | 460                        |
| M-024          | Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm <b>(excluding Seinoorage Charges)</b>                   | Cum         | 460                        |
| M-025          | Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinoorage Charges)</b>                    | Cum         | 545                        |
| M-026          | Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm <b>(excluding Seinoorage Charges)</b>                   | Cum         | 601                        |
| M-027          | Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinoorage Charges)</b>                    | Cum         | 602                        |
| M-028          | Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinoorage Charges)</b>                    | Cum         | 665                        |
| M-029          | Coarse graded Granular sub-base Material 53 mm to 26.5mm <b>(excluding Seinoorage Charges)</b>                      | Cum         | 825                        |
| M-030          | Aggregates below 5.6 mm <b>(excluding Seinoorage Charges)</b>   | Cum         | 530                        |
| M-031          | Aggregates 22.4 mm to 2.36 mm <b>(excluding Seinoorage Charges)</b>   | Cum         | 870                        |
| M-032          | Aggregates 22.4 mm to 5.6 mm <b>(excluding Seinoorage Charges)</b>  | Cum         | 990                        |
| M-033          | Aggregates 45 mm to 2.8 mm <b>(excluding Seinoorage Charges)</b>  | Cum         | 635                        |

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| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> | <b>S. Rate for 2013-14</b>                         |
|----------------|---|-------------|--|
| <b>1</b>       | <b>2</b>  | <b>3</b>    | <b>4</b>   |
| M-034          | Aggregates 45 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )         | Cum         | Rate as per item no.9 of Material rates of I&CAD.  |
| M-035          | Aggregates 53 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )          | Cum         | 870  |
| M-036          | Aggregates 53 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )         | Cum         | 830  |
| M-037          | Aggregates 63 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )          | Cum         | 680  |
| M-038          | Aggregates 63 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )           | Cum         | 630  |
| M-039          | Aggregates 90 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )           | Cum         | Rate as per item no.10 of Material rates of I&CAD. |
| M-040          | Aggregates 10 mm to 5 mm ( <b>excluding Seiniorage Charges</b> )            | Cum         | Rate as per item no.7 of Material rates of I&CAD.  |
| M-041          | Aggregates 11.2 mm to 0.09 mm ( <b>excluding Seiniorage Charges</b> )       | Cum         | 670  |
| M-042          | Aggregates 13.2 mm to 0.09 mm( <b>excluding Seiniorage Charges</b> )        | Cum         | 760  |
| M-043          | Aggregates 13.2 mm to 5.6 mm ( <b>excluding Seiniorage Charges</b> )        | Cum         | 875  |
| M-044          | Aggregates 13.2 mm to 10 mm( <b>excluding Seiniorage Charges</b> )          | Cum         | 980  |
| M-045          | Aggregates 20 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )           | Cum         | Rate as per item no.8 of Material rates of I&CAD.  |
| M-046          | Aggregates 25 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )           | Cum         | 1075   |
| M-047          | Aggregates 19 mm to 6 mm ( <b>excluding Seiniorage Charges</b> )            | Cum         | 990  |
| M-048          | Aggregates 37.5 mm to 19 mm( <b>excluding Seiniorage Charges</b> )          | Cum         | 1050   |
| M-049          | Aggregates 37.5 mm to 25 mm( <b>excluding Seiniorage Charges</b> )          | Cum         | 1090   |
| M-050          | Aggregates 6 mm nominal size( <b>excluding Seiniorage Charges</b> )         | Cum         | 700  |
| M-051          | Aggregates 10 mm nominal size( <b>excluding Seiniorage Charges</b> )        | Cum         | 890  |
| M-052          | Aggregates 13.2/12.5 mm nominal size( <b>excluding Seiniorage Charges</b> ) | Cum         | 1045   |
| M-053          | Aggregates 20 mm nominal size( <b>excluding Seiniorage Charges</b> )        | Cum         | 1300   |
| M-054          | Aggregates 25 mm nominal size( <b>excluding Seiniorage Charges</b> )        | Cum         | 1250   |

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| Sl. No. | Description  | Unit            | S. Rate for 2013-14                                    |
|---------|--|-----------------|--|
| 1       | 2  | 3               | 4  |
| M-055   | Aggregates 40 mm nominal size( <b>excluding Seiniorage Charges</b> )   | Cum             | 805  |
| M-056   | AC pipe 100 mm dia   | Metre           | Rate as per PH item                                    |
| M-057   | Acrylic polymer bonding coat   | Litre           | 460  |
| M-058   | Aluminum Paint   | Litre           | 320  |
| M-059   | Aluminum alloy plate 2mm Thick   | Sqm             | 370  |
| M-060   | Aluminum alloy/Galvanized steel  | Tone            | 68,865   |
| 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             | 940  |
| M-062   | Aluminum studs 100 x 100 mm fitted with lens reflectors  | No's            | As per local market rate                               |
| M-063   | Barbed wire  | Kg              | 80   |
| M-064   | Bearing (Cost of parts)  | No's            | 570  |
| M-065   | Bearing (Cast steel rocker bearing assembly of 250 tonne )   | No's            | 785  |
| 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 vulcanization,)   | Cm <sup>3</sup> | As per Market Competitive rates.                       |
| M-067   | Bearing (Forged steel roller bearing of 250 tonne)   | No's            |  |
| 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 | No's            |  |
| M-069   | Bearing (PTFE sliding plate bearing assembly of 80 tonnes )  | No's            |  |
| M-070   | Bearing (Supply of sliding plate bearing of 80 tonne)  | No's            |  |
| M-071   | Bentonite  | Kg              | 7.5  |
| M-072   | Binding wire   | Kg              | Rate as per item no.3 of Material rates of I&CAD.      |
| M-073   | Bitumen ( Cationic Emulsion )  | Tone            | As per rates fixed by R&B Dept based on refinery rates |
| M-074   | Bitumen (60-70 grade)(Excluding taxes)   | Tone            |  |
| M-075   | Bitumen (80-100 grade ) (Excluding taxes)  | Tone            |  |

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| Sl. No. | Description  | Unit     | S. Rate for 2013-14                               |
|---------|--|----------|---|
| 1       | 2  | 3        | 4   |
| M-076   | Bitumen (Cutback )   | Tone     |   |
| M-077   | Bitumen (emulsion)(Excluding taxes)  | Tone     |   |
| M-078   | Bitumen (modified graded)  | Tone     |   |
| M-079   | Brick  | Each     | As per Building SSR                               |
| M-080   | C.I. shoes for the pile  | Kg       | 54  |
| M-081   | Cement   | Tone     | Rate as per item no.5 of Material rates of I&CAD. |
| M-082   | Cold twisted bars (HYSD/TMT Bars)  | Tone     | Rate as per item no.62 of Material rates of I&CAD |
| M-083   | Collar for joints 300 mm dia   | No's     | 160   |
| M-084   | Compressible Fibre Board(20mm thick)   | Sqm      | 525   |
| M-085   | Connectors/ Staples  | Each     | 80  |
| M-086   | Copper Plate(12m long x 250mmwide)   | Kg       | 520   |
| M-087   | Corrosion resistant Structural steel   | Tone     | 57,500  |
| M-088   | Corrugated sheet, 3 mm thick, "Tie" beam section railing   | Kg       | 200   |
| M-089   | Credit for excavated rock found suitable for use   | Cum      | 188   |
| M-090   | Curing compound  | Liter    | 131   |
| 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( <b>Excluding Seigniorage Charges</b> )   | Cum      | 40  |
| 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 no's | 1205  |
| M-095   | Epoxy compound with accessories for preparing epoxy mortar   | Kg       | 350   |
| M-096   | Epoxy mortar   | Kg       | 115   |
| M-097   | Epoxy primer   | Kg       | 595   |
| M-098   | Epoxy resin-hardner mix for prime coat   | Kg       | 615   |
| M-099   | Flag of red color cloth 600 x 600 mm   | Each     | 25  |

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| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>S. Rate for 2013-14</b>                                    |
|----------------|--|-------------|---|
| <b>1</b>       | <b>2</b>   | <b>3</b>    | <b>4</b>  |
| M-100          | Flowering Plants   | Each        | 40  |
| M-101          | Galvanized MS flat clamp   | No's        | 195   |
| M-102          | Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size. | Sqm         | 175   |
| M-103          | Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long   | Kg          | 905   |
| M-104          | Gelatin 80%  | Kg          | 73  |
| M-105          | Geo grids  | Sqm         | As per local competitive quotations                           |
| M-106          | (a)Geo membrane 500 micron thick   | Sqm         | 80  |
|                | (b) Geo membrane 750 micron thick  | Sqm         | 120   |
|                | (c) Geo membrane 1000 micron thick   | Sqm         | 165   |
| M-107          | Geo nets   | Sqm         | As per local competitive quotations                           |
| M-108          | (a)Geo textile 160 gsm   | Sqm         | 110   |
|                | (b) Geo textile 200 gsm  | Sqm         | 125   |
|                | (c) Geo textile 250 gsm  | Sqm         | 150   |
| M-109          | Geo textile filter fabric  | Sqm         | As per local competitive quotations                           |
| M-110          | GI bolt 10 mm Dia  | No's        | 22  |
| M-111          | Grouting pump with agitator  | Hour        | Rate covered in hire charges of machinery of Irrigation items |
| M-112          | Grass (Doob)   | Kg          | 6   |
| M-113          | Grass (Fine)   | Kg          | 8   |
| 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   | Tone        |   |

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| Sl. No. | Description   | Unit  | S. Rate for 2013-14                      |
|---------|---|-------|--|
| 1       | 2   | 3     | 4  |
| M-120   | Joint Sealant Compound  | Kg    |  |
| M-121   | Jute netting, open weave, 2.5 cm square opening for seeding and Mulching  | Sqm   | 90                                       |
| M-122   | LDO for steam curing  | Litre | 65                                       |
| 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   | Tone  | 45,500                                   |
| 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 authorized 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 authorized representative | Metre | Rate as per local competitive quotations |
| M-129   | Nipples 12mm  | No's  | 19                                       |
| M-130   | Nuts and bolts  | Kg    | 94                                       |
| M-131   | Paint   | Litre | 243                                      |
| 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            |

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| Sl. No. | Description  | Unit  | S. Rate for 2013-14                      |
|---------|--|-------|--|
| 1       | 2  | 3     | 4  |
|         |  |       | quotations                               |
| M-137   | R.C.C Pipes 200 mm dia, 2.5 m long for drainage  | Metre | Rate as per PH item                      |
| M-138   | Plastic sheath, 1.25 mm thick for dowel bars   | Sqm   | Rate as per local competitive quotations |
| M-139   | Plastic tubes 50 cm dia , 1.2 m high   | No's  |  |
| 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, vulcanized in a single operation for the full length of a joint to ensure water tightness. | Metre | Rate as per local competitive quotations |
| M-144   | Pre-moulded asphalt filler board   | Sqm   | Rate as per local competitive quotations |
| M-145   | Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days   | Kg    |  |
| M-146   | Primer   | Kg    | As per building SSR                      |
| M-147   | Quick setting compound   | Kg    | As per local market rate                 |
| M-148   | Random Rubble Stone( <b>Including Loading Charges but excluding Seignorage Charges</b> )   | Cum   | 245                                      |
| 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 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. (Galvanized 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 |  |

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| Sl. No. | Description  | Unit  | S. Rate for 2013-14   |
|---------|--|-------|---|
| 1       | 2  | 3     | 4   |
| 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  | 6   |
| M-159   | Sand bags (Cost of sand and Empty cement bag)  | No's  | 16  |
| M-160   | Sapling 2 m high 25 mm dia   | Each  | Rate as per local competitive quotations                    |
| M-161   | Scrap tyres of size 900 x 20   | No's  | 80  |
| M-162   | Seeds(Grass)   | Kg    | 18  |
| M-163   | Cost of Selected earth (Excluding Seignorage Charges)  | Cum   | 40  |
| 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  | 15  |
| 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(Including Loading Charges but excluding Seignorage charges)                                | Cum   | 2150  |
| 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  | No's  | 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 | 280   |
| M-175   | Steel pipe 50 mm external dia as per IS:1239   | Metre | 545   |
| M-176   | Steel wire rope 20 mm  | Kg    | 180   |
| M-177   | Steel wire rope 40 mm  | Kg    | 205   |
| M-178   | Strip seal expansion join  | Metre | Rate as per local competitive quotations                    |



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| Sl. No. | Description  | Unit      | S. Rate for 2013-14                                  |
|---------|--|-----------|--|
| 1       | 2  | 3         | 4  |
| M-179   | Structural Steel(HYSD/TMT bars)  | Tone      | Rate as per item no.62 of Material rates of I&CAD    |
| M-180   | Super plasticizer admixture IS marked as per 9103-1999                           | Kg        | 65   |
| 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<br>(a) 20X20x30 to 45 cm long                             | Each      | Rate as per item No. 75 of Material rates of I & CAD |
|         | Through and bond stone<br>(b) 25X25x45 to 60 cm long                             | Each      | Rate as per item No. 76 of Material rates of I & CAD |
|         | Through and bond stone<br>(c) 30X30x65 to 75 cm long                             | Each      | Rate as per item No. 77 of Material rates of I & CAD |
| M-183   | Tie rods 20mm diameter   | No's      | 52   |
| 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                                      | No's      | Rate as per local competitive quotations             |
| M-187   | Tube anchorage set complete with bearing plate, permanent wedges etc             | No's      |  |
| M-188   | Un slaked lime   | Tonne     | 2540   |
| M-189   | Water  | KiloLitre | 100  |
| M-190   | Water based cement paint   | Litre     | As per building SSR                                  |
| M-191   | Welded steel wire fabric   | Kg        | 150  |
| M-192   | Wire mesh 50mm x 50mm size of 3mm wire   | Kg        | 245  |
| 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       | 1265   |
| M-196   | Wooden staff for fastening of flag 25 mm dia, one m long                         | Each      | 75   |

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| Sl. No.                    | Description  | Unit                           | S. Rate<br>for<br>2013-14 |
|----------------------------|--|--------------------------------|---------------------------|
| 1                          | 2  | 3                              | 4                         |
| Item 8.3                   | Printing new letter and figures of any shade (ii)<br>English Roman   | per cm<br>height per<br>letter | 1.60                      |
| Item 8.8                   | Painting Two Coats on New Concrete Surfaces  | Sqm                            | As per Building<br>SSR    |
| Item 8.9                   | Painting angle iron post Two Coats   | Sqm                            | As per Building<br>SSR    |
| <b>Miscellaneous Items</b> |  |                                |                           |
| 1                          | Benching old embankment slopes 0.45 X 0.45 M   | RM                             | 4.20                      |
| 2                          | Laying Sand Bags in the stipulated places including<br>cost of empty cement bag, sand, thread, stitching<br>charges and labour charges with 14% overhead<br>charges and contractors profits. | per bag                        | 25.60                     |
| 3                          | Rough stone for revetment 225mm thick ( including<br>Loading charges but excluding Seigniorage charges)  | Cum                            | 140                       |
| 4                          | Eradication of Weed growth from Drains, Canals by<br>spraying Chemicals  | Sqm                            | 1.75                      |
| 5                          | Thinner  | Ltr                            | 140                       |

# Conveyance Charges of Material

**CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2013-14**

**(COMMON TO ALL DEPARTMENTS).**

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS  
FOR THE YEAR: 2013-14**

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: 2013-14**

| Sl No. | Total distance<br>( Total lead includes initial<br>lead ) | Earth / Sand /Gravel<br>/ Murrum/ Lime/<br>Surki/ Size stone /<br>Cut stone Rubble /<br>Coarse 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                                    | 45.60  | 26.60   | 58.00  |
| 3      | Total lead up to 150 m                                    | 91.20  | 53.20   | 116.10   |

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 & lift 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: 2013-14**

**( 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 | (Lead) charges for trucks per 1000 nos. of bricks |
|--------|--------------------------------------|--|---|--|---|---|---|
| 1      | 2                                    | 3  | 4   | 5  | 6   | 7   | 8   |
| 1      | Lead up to 1 km                      | 30.00  | 28.90   | 18.00  | 42.40   | 17.80   | 48.10   |
| 2      | Lead up to 2 km                      | 42.00  | 40.40   | 25.30  | 59.40   | 24.90   | 67.30   |
| 3      | Lead up to 3 km                      | 56.00  | 56.00   | 35.00  | 82.40   | 33.20   | 89.80   |
| 4      | Lead up to 4 km                      | 68.00  | 68.00   | 42.50  | 100.00  | 40.30   | 109.00  |
| 5      | Lead up to 5 km                      | 80.00  | 80.00   | 50.00  | 117.70  | 47.40   | 128.30  |
| 6      | for Every km beyond 5 km up to 30 km | 12.00  | 12.00   | 7.50   | 17.60   | 7.10  | 19.20   |
| 7      | for Every km beyond 30 km            | 10.00  | 10.00   | 6.30   | 14.70   | 5.90  | 16.00   |

**Note: The lead & lift 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 |
|----------|---------------------|--|---|--------------------|--------------------|-----------------------|
| <b>1</b> | <b>2</b>            | <b>3</b>                                       | <b>4</b>  | <b>5</b>           | <b>6</b>           | <b>7</b>              |
| 1        | Loading             | 15.20  | 30.30   | 50.10              | 60.00              | 41.70                 |
| 2        | Unloading           | 7.60   | 15.15   | 50.10              | 60.00              | 41.70                 |

**Note: The lead & lift 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 |
|----------|---------------------|--|---|--------------------|--------------------|-----------------------|
| <b>1</b> | <b>2</b>            | <b>3</b>                                       | <b>4</b>  | <b>5</b>           | <b>6</b>           | <b>7</b>              |
| 1        | Loading             | 102.60   | 117.80  | 146.30             | 156.20             | 200.50                |
| 2        | Unloading           | 36.60  | 58.90   | 146.30             | 156.20             | 200.50                |

**Note: The lead & lift 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 |
|----------|---------------------|--|---|
| <b>1</b> | <b>2</b>            | <b>3</b>                                       | <b>4</b>  |
| 1        | Loading             | 50.50  | 101.10  |
| 2        | Unloading           | 15.20  | 15.20   |

**Note: The lead & lift 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 rate)            | Initial lift  | Initial lift  | Initial lift  |
| 2      | For Every 1.00 Lift<br>beyond initial lift of 3<br>meters | 5.30  | 3.80  | 7.10  |

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

# **HIRE CHARGES**



**Machinery Hire Charges – Common SoR 2013-14**

**HIRE CHARGES OF PLANT & MACHINERY  
FOR THE YEAR : 2013-14**

| 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 | 777.70            | 816.80            | 224.60             | 1819.10     |
| 2      | Air compressor 5 cmm ( electric )        | Hour | 111.90            | 256.80            | 130.70             | 499.40      |
| 3      | Air compressor 7 cmm ( diesel )          | Hour | 247.70            | 668.30            | 167.20             | 1083.20     |
| 4      | Air compressor 7 cmm ( electric )        | Hour | 136.40            | 342.40            | 130.70             | 609.50      |
| 5      | Air compressor 8.5 cmm ( diesel)         | Hour | 282.90            | 835.30            | 167.20             | 1285.40     |
| 6      | Air compressor 8.5 cmm ( electric)       | Hour | 176.60            | 428.00            | 130.70             | 735.30      |
| 7      | Air compressor 15 cmm ( electric)        | Hour | 146.00            | 951.20            | 139.40             | 1236.60     |
| 8      | Angle Dozer 90 hp                        | Hour | 1753.10           | 571.40            | 187.20             | 2511.70     |
| 9      | Batching plant 0.5 cum ( 6 Cum/hr)       | Hour | 120.30            | 114.10            | 269.50             | 503.90      |
| 10     | Batching plant 2 x 1.00 cum (15 Cum/hr)  | Hour | 425.60            | 342.40            | 269.50             | 1037.50     |
| 11     | Batching plant 2 x 1.50 cum ( 50 Cum/hr) | Hour | 543.90            | 418.50            | 269.50             | 1231.90     |
| 12     | Bending machine 3000 x 12 mm             | Hour | 44.70             | 114.10            | 104.50             | 263.30      |
| 13     | Clamp shell and hoisting ropes           | Hour | 5.40              | 0.00              | 0.00               | 5.40        |
| 14     | Concrete bucket 1.5 cum                  | Hour | 16.20             | 0.00              | 0.00               | 16.20       |
| 15     | Concrete hand mixer 45 / 30 ltr          | Hour | 5.60              | 0.00              | 0.00               | 5.60        |
| 16     | Concrete mixer 300 / 200 ( diesel)       | Hour | 54.60             | 74.30             | 174.20             | 303.10      |
| 17     | Concrete mixer 300 / 200 ltr ( electric) | Hour | 52.80             | 38.00             | 174.20             | 265.00      |
| 18     | Concrete mixer 600 / 400 ( diesel)       | Hour | 94.70             | 148.50            | 174.20             | 417.40      |
| 19     | Concrete mixer 600 / 400 ltr ( electric) | Hour | 92.90             | 76.10             | 174.20             | 343.20      |
| 20     | Concrete paver 100 sqm / hr              | Hour | 371.60            | 0.00              | 334.50             | 706.10      |
| 21     | Concrete placer pump / hour              | Hour | 102.00            | 2.00              | 16.80              | 120.80      |
| 22     | Convey mucker                            | Hour | 845.60            | 264.80            | 139.40             | 1249.80     |
| 23     | Core drilling machine                    | Hour | 328.30            | 222.80            | 224.60             | 775.70      |
| 24     | Diesel generating set 30 KVA             | Hour | 67.90             | 594.00            | 104.50             | 766.40      |
| 25     | Diesel generating set 50 KVA             | Hour | 87.80             | 891.00            | 104.50             | 1083.30     |
| 26     | Diesel Loco 45 hp                        | Hour | 392.50            | 501.20            | 130.70             | 1024.40     |
| 27     | Dewatering pump 5 hp ( diesel )          | Hour | 10.40             | 74.30             | 87.40              | 172.10      |
| 28     | Dewatering pump 5 hp ( electric )        | Hour | 3.10              | 38.00             | 65.50              | 106.60      |

**Machinery Hire Charges – Common SoR 2013-14**

| 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           |
| 29     | Dewatering pump 10 hp ( diesel )       | Hour | 15.60             | 148.50            | 87.40              | 251.50      |
| 30     | Dewatering pump 10 hp ( electric       | Hour | 7.00              | 76.10             | 65.50              | 148.60      |
| 31     | Dewatering pump 20 hp ( diesel )       | Hour | 49.50             | 297.00            | 87.40              | 433.90      |
| 32     | Dewatering pump 20 hp ( electric       | Hour | 12.70             | 152.20            | 65.50              | 230.40      |
| 33     | Drifter                                | Hour | 333.60            | 0.00              | 280.80             | 614.40      |
| 34     | Drilling jumbo                         | Hour | 376.80            | 40.10             | 139.40             | 556.30      |
| 35     | Dumper 4.5 cum                         | Hour | 591.60            | 374.20            | 179.70             | 1145.50     |
| 36     | Geophysical Electric resistivity meter | Hour | 101.20            | 0.00              | 0.00               | 101.20      |
| 37     | Grouting pump                          | Hour | 25.70             | 38.00             | 209.00             | 272.70      |
| 38     | Guniting / sand blast equipment        | Hour | 112.20            | 0.00              | 174.20             | 286.40      |
| 39     | Ice plant & accessories 30 t / day     | Hour | 179.10            | 1084.30           | 104.50             | 1367.90     |
| 40     | Jack hammer                            | Hour | 20.50             | 0.00              | 261.30             | 281.80      |
| 41     | Needle vibrator 40 mm ( petrol )       | Hour | 7.80              | 19.00             | 125.40             | 152.20      |
| 42     | Needle vibrator 40 mm ( electric )     | Hour | 8.10              | 7.60              | 125.40             | 141.10      |
| 43     | Needle vibrator 60 mm ( petrol )       | Hour | 8.30              | 28.50             | 125.40             | 162.20      |
| 44     | Needle vibrator 60 mm ( electric )     | Hour | 9.90              | 11.40             | 125.40             | 146.70      |
| 45     | Planing machine 4 m stroke             | Hour | 122.80            | 114.10            | 167.20             | 404.10      |
| 46     | Plate shearing machine up to 12 mm     | Hour | 43.60             | 152.20            | 112.30             | 308.10      |
| 47     | Pneumatic placer 0.5 cum               | Hour | 174.40            | 0.00              | 68.30              | 242.70      |
| 48     | Pneumatic tamper                       | Hour | 21.40             | 0.00              | 209.00             | 230.40      |
| 49     | Pug cutting machine                    | Hour | 6.60              | 3.80              | 0.00               | 10.40       |
| 50     | Pusher leg                             | Hour | 13.10             | 0.00              | 0.00               | 13.10       |
| 51     | Road roller diesel 10 t                | Hour | 202.90            | 668.30            | 167.20             | 1038.40     |
| 52     | Shovel 0.50 cum 75 hp                  | Hour | 1028.90           | 445.50            | 187.20             | 1661.60     |
| 53     | Shovel 0.85 cum 110 hp                 | Hour | 1750.50           | 816.80            | 187.20             | 2754.50     |
| 54     | Stationery derrick crane               | Hour | 89.50             | 0.00              | 0.00               | 89.50       |
| 55     | Tipper 5 cum                           | Hour | 456.20            | 280.70            | 140.40             | 877.30      |
| 56     | Tipping tub 1.5 cum                    | Hour | 65.60             | 0.00              | 0.00               | 65.60       |
| 57     | Tower crane 5 tonne                    | Hour | 906.30            | 197.80            | 149.80             | 1253.90     |
| 58     | Transformer 250 KVA                    | Hour | 5324.30           | 0.00              | 0.00               | 5324.30     |
| 59     | Truck 10 t                             | Hour | 422.80            | 280.70            | 140.40             | 843.90      |
| 60     | Truck mounted derrick crane 5 t        | Hour | 530.90            | 280.70            | 140.40             | 952.00      |
| 61     | Upright drilling machine/grinder       | Hour | 23.10             | 38.00             | 156.00             | 217.10      |

**Machinery Hire Charges – Common SoR 2013-14**

| <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>           |
| 62            | Ventilation fan 20 hp                       | Hour        | 11.90                    | 152.20                   | 22.60                     | 186.70             |
| 63            | Vibratory pad foot roller 8 t               | Hour        | 1367.10                  | 965.30                   | 209.00                    | 2541.40            |
| 64            | Wagon drill                                 | Hour        | 194.00                   | 0.00                     | 224.60                    | 418.60             |
| 65            | Water tanker 8000 ltr                       | Hour        | 411.00                   | 280.70                   | 140.40                    | 832.10             |
| 66            | Welding set                                 | Hour        | 16.50                    | 91.30                    | 0.00                      | 107.80             |
| 67            | Winch 35 hp ( electric )                    | Hour        | 132.50                   | 186.40                   | 209.00                    | 527.90             |
| 68            | Tractor with 2 T roller                     | Hour        |                          |                          |                           | 345.00             |
| 69            | Hydraulic Truck Crane 30T                   | Hour        | 3193.20                  | 118.80                   | 419.30                    | 3731.30            |
| 70            | Hydraulic Truck Crane 16T                   | Hour        | 2347.90                  | 75.00                    | 419.30                    | 2842.20            |
| 71            | Heavy Duty Airless Spray Painting Equipment | Hour        | 123.00                   |                          |                           | 123.00             |

# **ROADS & BRIDGE WORKS**

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**PART-II**  
**ROAD & BRIDGE WORKS**

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# PREAMBLE

**PREAMBLE**

**I.0 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 corporation (Upto 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 limits (Upto 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:**

20% 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 Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District ,Anakapally of Vishakhapatnam District.

**D) AGENCY / TRIBAL AREAS:**

- a) 25% extra allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located with in & upto16 KMs from any all weather route inside Agency / Tribal.



- b) 40% extra allowed for the works located within 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 ½ 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 WATER LEADS:**

The following labour is allowed for conveyance of water for every  $\frac{1}{2}$  Kilometer lead or part there of over the initial lead of  $\frac{1}{2}$  kilometer.

- |                    |   |                            |
|--------------------|---|----------------------------|
| a) Cement concrete | : | 1.5 Women Mazdoor / Cum.   |
| b) Masonry         | : | 1.0 Woman Mazdoor/ Cum.    |
| c) Plastering      | : | 0.5 Woman Mazdoor/ 10 Sq.m |

**Note:-** For Water leads of over 2 KMs, specific approval of Chief Engineer concerned is necessary.

## **3.0 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<br>U. T's., Culverts and Syphons.   | ... | 120% extra |
| V) Excavation of field channels   | ... | 75% extra  |
| VI) For narrow trenches not more than<br>2 meters in width and depth not less<br>than twice the width and for excavation ...<br>of road boundary drains, model sections<br>of canals. | ... | 75% extra  |
| VII) High berm cutting of not more than<br>150 mm average thickness and<br>sectioning for roads   | ... | 50% extra  |

- Note:** 1) The extra percentage is allowed over 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.

**4.0 Proportion of First class and 2<sup>nd</sup> class workmen under Skilled Labour:**

30% of the skilled labour provided in the data may be taken as 1<sup>st</sup> Class and the remaining 70% as 2<sup>nd</sup> Class.

**5.0 Revetment and apron works:**

- I) The size of stone for the volume range ( 0.015 to 0.030 Cum) shall not be less than (0.30 X 0.30 X 0.15 to 0.30 X 0.225 X 0.225m)
- II) The size of stone for the volume range (0.011 to 0.015 Cum) shall not be less than (0.30 X 0.225 X 0.15 to 0.225 X 0.225 X 0.225 m)
- III) The rate of labour component as per the standard data book is to be adopted for revetment work only. However for apron work Rs. 3.00 per cum. should be deducted.

- IV)** For the labour for the “**Rock Toe**” shall be taken as 2/3<sup>rd</sup> of the labour charges of revetment as Chief Engineer, Circular No. P3/ OT2/ T3/ 65167/78, Dt: 19.03.1980.

**6.0 Deep cuts:**

Deep cuts are defined as reaches of canal where excavation in all soils is for a depth of excavation 6m and more. The following increase over normal rates is permitted in deep cuts on a graded basis.

- I) Up to 6 m excavation: The S. S. R. of corresponding classification of earth work excavation is applicable.
- II) Beyond 6 m and up to 9 m excavation - 9% extra
- III) Beyond 9 m and up to 12 m excavation - 12% extra
- IV) Beyond 12 m and up to 16 m excavation - 15% extra
- V) Beyond 16 m and up to 30 m excavation - 20% extra
- VI) Beyond 30 m excavation - 40% extra

**NOTE :** 1) The extra percentage is only on basic rate. 2) The above percentage are not applicable for “**LEADS & LIFTS**”. 3) The above extra percentages are to be allowed only on items excluding the blasting component which may be taken as 1/3 of the rate.

**7.0 The conveyance of bitumen for bulk and packed may be admitted as follows:**

|        |     |     |                                  |
|--------|-----|-----|----------------------------------|
| Packed | --- | Rs. | 1.75per Km/ MT                   |
| Bulk   | --- | Rs. | 1.50 per Km/ MT (round the trip) |

**8.0 SEIGNIORAGE CHARGES:**

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.198 (industries and commerce department), dated 13.08.2009 may be added in the data of rates in the estimate. The Provision towards Contractor's Profit and Overhead charges **should not be operated** on the Seigniorage Charges while adding Seigniorage Charges to the data in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

**9.0 EARTH WORK EXCAVATION BY MACHINERY:**

For items of Earth work excavation by machinery, the rates shall be adopted as per Road & Bridge works (Part-2) of A.P. Revised Standard data.

# **LABOUR RATES**

| Sl. No. | S.S. Item No. | Description                                      | Unit (per ) | SoRate for 2013-14 | Remarks                 |
|---------|---------------|--|-------------|--------------------|-------------------------|
| 1       | 2             | 3  | 4           | 5                  | 6                       |
|         |               | <b>(A) SKILLED WORKMEN</b>                       |             |                    |                         |
|         |               | <b>First Class</b>                               |             |                    |                         |
| 1       | a             | Mason and stone Cutter                           | Day         | 350                | As per I& CAD (S.No.39) |
| 2       | b             | Brick Layer                                      | Day         | 350                | As per I& CAD (S.No.11) |
| 3       | c             | Carpenter  | Day         | 350                | As per I& CAD (S.No.4)  |
| 4       | d             | Painter  | Day         | 400                | As per I& CAD (S.No.35) |
| 5       | e             | Plumber  | Day         | 400                | As per I& CAD (S.No.36) |
| 6       | f             | Welder   | Day         | 350                | As per I& CAD (S.No.41) |
| 7       | g             | Fitter   | Day         | 350                | As per I& CAD (S.No.6)  |
| 8       | h             | Electrician( Licensed)                           | Day         | 400                | As per I& CAD (S.No.5)  |
| 9       | l             | Cook   | Day         | 335                | As per I& CAD (S.No.2)  |
| 10      | 2             | Mechanic   | Day         | 350                | As per I& CAD (S.No.12) |
| 11      | 3             | Rigger   | Day         | 350                |                         |
| 12      | 4             | Rigger Syrang                                    | Day         | 350                |                         |
| 13      | 5             | Well Sinker                                      | Day         | 350                |                         |
| 14      | 6             | Blaster  | Day         | 400                | As per I& CAD (S.No.3)  |
| 15      | 3             | Barbender  | Day         | 370                | As per I& CAD (S.No.1)  |
| 16      | 7             | Tipper and Heavy Vehicle Driver above 12 T       | Day         | 400                | As per I& CAD (S.No.15) |
| 17      |               | Tanker and Medium Vehicle Driver (7.5 T to 12 T) | Day         | 350                |                         |
| 18      |               | Tanker and Light Vehicle Driver up to 7.5 T      | Day         | 280                |                         |
| 19      |               | Wagon Drill Operator upto 7.5 T                  | Day         | 350                |                         |
| 20      | 8             | Lorry and Heavy Vehicle Driver above 12 T        | Day         | 385                |                         |

|    |    |  |     |     |   |
|----|----|--|-----|-----|---|
| 21 |    | Road Roller Driver ( 7.5 T to 12 T)                                      | Day | 350 | As per I& CAD (S.No.27)                   |
| 22 |    | Road Roller Driver up to 7.5 T   | Day | 280 |   |
| 23 | 9  | Tractor Driver above 12 T  | Day | 385 |   |
| 24 |    | Tractor Driver ( 7.5 T to 12 T)  | Day | 350 |   |
| 25 |    | Tractor Driver upto 7.5 T  | Day | 280 |   |
|    |    | <b>Operator</b>  |     |     |   |
| 26 | 10 | Pan Mixer  | Day | 350 |   |
| 27 |    | Concrete mixer   | Day | 350 | As per I& CAD (S.No.16)                   |
| 28 |    | Vibrator   | Day | 350 | As per I& CAD (S.No.32)                   |
| 29 |    | Compressor   | Day | 350 |   |
| 30 |    | Jack Hammer  | Day | 350 | As per I& CAD (S.No.23)                   |
| 31 |    | Driller  | Day | 400 | As per I& CAD (S.No.34)                   |
| 32 |    | Boring Maistry   | Day | 350 |   |
| 33 | 11 | Pump Operator  | Day | 350 | As per I& CAD (S.No.24)                   |
| 34 | 12 | Turner Grade-I   | Day | 350 |   |
| 35 | 13 | Wireless Operator  | Day | 390 | As per I& CAD (S.No.12)<br>Other category |
| 36 | 14 | Assistant Wireless Operator  | Day | 320 |   |
| 37 | 15 | Jeep Driver  | Day | 400 | As per I& CAD (S.No.15)<br>Other category |
| 38 | 16 | Work inspector with I.T.I qualification                                  | Day | 400 | As per I& CAD (S.No.9) Other category     |
| 39 | 17 | Work Inspector with LCE, LME, L.E.E Qualification                        | Day | 500 | As per I& CAD (S.No.4) Other category     |
| 40 | 18 | Work Inspector with B.E (Civil, Mechanical and Electrical qualification) | Day | 670 | As per I& CAD (S.No.7) Other category     |
| 41 | 19 | Work Inspector with Non-technical qualification SSLC / SSC / HSC         | Day | 335 | As per I& CAD (S.No.10)                   |
| 42 | 20 | Mason Spl. Grade for Mossaic and Polished shahabad stone floor           | Day | 350 |   |

|                                 |        |   |     |     |   |
|---------------------------------|--------|---|-----|-----|---|
| 43                              | 21a(i) | Typist / Job Typist   | Day | 390 | As per I& CAD (S.No.13)<br>Other category |
|                                 | a(ii)  | Computer Operator   | Day | 440 | As per I& CAD (S.No.11)<br>Other category |
|                                 | b      | “CAD Operator with Diploma in Engineering/General Degree with CAD certificate”. | Day | 550 | As per I& CAD (S.No.14)<br>Other category |
| <b>(B) SEMI-SKILLED WORKMEN</b> |        |   |     |     |   |
| <b>SECOND CLASS</b>             |        |   |     |     |   |
| 44                              | 1      | Mason   | Day | 320 | As per I& CAD (S.No.35)                   |
| 45                              | b      | Brick Layer and Stone Cutter  | Day | 320 | As per I& CAD (S.No.35)                   |
| 46                              | c      | Carpenter   | Day | 320 | As per I& CAD (S.No.4)                    |
| 47                              | d      | Painter   | Day | 320 | As per I& CAD (S.No.37)                   |
| 48                              | e      | Plumber   | Day | 320 |   |
| 49                              | f      | Blacksmith  | Day | 320 |   |
| 50                              | g      | Welder  | Day | 320 |   |
| 51                              | h      | Fitter  | Day | 320 |   |
| 52                              | l      | Electrician   | Day | 320 |   |
| 53                              | 2      | Caulker   | Day | 320 |   |
| 54                              | 4      | Tinker  | Day | 320 |   |
| 55                              | 5      | Sawyer  | Day | 320 |   |
| 56                              | 6      | Brick-Moulder   | Day | 320 |   |
| 57                              | 7      | Pot-tile turner   | Day | 320 |   |
| 58                              | 8      | Pan -tile turner  | Day | 320 |   |
| 59                              | 9      | Brick and Lime Kiln man /Glazzer  | Day | 320 |   |
| 60                              | 10     | Telephone Operator  | Day | 390 | As per I& CAD (S.No.12)<br>Other category |
| 61                              | 11     | Hand Driller  | Day | 320 |   |
| 62                              | 12     | Quarry man  | Day | 320 |   |
| 63                              | 13     | Hammer man  | Day | 320 | As per I& CAD (S.No.40)                   |
| 64                              | 14     | Thatcher  | Day | 320 |   |
| 65                              | 15     | Fireman   | Day | 320 |   |



|                                   |  |   |     |     |                                      |
|-----------------------------------|--|---|-----|-----|--------------------------------------|
| 66                                | 16   | Cleaner/Helper  | Day | 320 |                                      |
| 67                                | 17   | Stone Packer  | Day | 320 |                                      |
| 68                                | 18   | Jawali  | Day | 320 |                                      |
| 69                                | 19   | Ex-Service man / Goorkha watchman   | Day | 320 |                                      |
| 70                                | 20   | Ratton worker   | Day | 320 |                                      |
| 71                                | 21   | Mate  | Day | 320 |                                      |
| 72                                | 1  | Head mazdoor(Mukaddar)  | Day | 320 | As per I& CAD (S.No.10) semi skilled |
| <b>(C) UNSKILLED WORKMEN</b>      |  |   |     |     |                                      |
| 73                                | 2  | Man mazdoor   | Day | 280 | As per I& CAD (S.No.3)               |
| 74                                | 3  | Watch man   | Day | 280 | As per I& CAD (S.No.5)               |
| 75                                | 5  | Woman Mazdoor   | Day | 280 | As per I& CAD (S.No.4)               |
| 76                                | 6(b)   | Helpers/Cleaners/Sweepers/Scavangers/C houkidaars/Security Guards/Office Boys                         | Day | 280 |                                      |
| 77                                | <b>NOTE:</b> Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double of the above wages. |   |     |     |                                      |
| <b>(D) OTHER CONVEYANCE ITEMS</b> |  |   |     |     |                                      |
| 78                                | 1  | Single bullock with driver and cart   | Day | 345 | As per I& CAD (S.No.6) semi skilled  |
| 79                                | 2  | Bullock pair with driver  | Day | 350 |                                      |
| 80                                | 3  | Bullock pair with driver and cart   | Day | 365 | As per I& CAD (S.No.5) semi skilled  |
| 81                                | 4  | Bullock pair with driver and cart with Pneumatic tyres  | Day | 384 |                                      |
| 82                                | 6  | Nava with crew  | Day | 335 | As per I& CAD (S.No.3) semi skilled  |
| 83                                | 7  | Punt thundal  | Day | 251 |                                      |
| 84                                | 8  | Punt lascar   | Day | 251 |                                      |
|                                   |  | <b>Note: -</b>  |     |     |                                      |
|                                   |  | 1) The wage should not be less than the minimum wages of schedule of employment, subject to out turn. |     |     |                                      |

|  |   |  |
|--|---|--|
|  | <p>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.</p> |  |
|--|---|--|

## **MATERIAL & WORK ITEM RATES**

## RATES OF MATERIALS & WORK ITEMS

| RATES OF MATERIALS & WORK ITEMS<br>Sl.No. | S.S. Item No. | Description   | Unit (per) | SoRate for 2013-14 | Remarks   |
|---|---------------|---|------------|--------------------|---|
| 1   | 2             | 3   | 4          | 5                  |   |
|   |               | <b>(A) STONE AND ROAD MATERIALS</b>   |            |                    |   |
|   |               | <b>ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING</b> |            |                    |   |
| 1   | 22.a          | For R.R Masonary Work (other than Granite, Dolomite and Trap)               | 1 cum      | <b>160</b>         |   |
| 2   | b.i           | For SS Revetment work 225 mm  | 1 cum      | <b>140</b>         | As per I& CAD (S.no.3 of Miscellaneous items Material other than covered under irrigation |
| 3   | b.ii          | For SS Revetment work 300 mm  | 1 cum      | <b>156</b>         | As per I& CAD (M003 of Material) other than covered under irrigation                      |
| 4   | b.iii         | For SS Revetment work 450 mm  | 1 cum      | <b>136</b>         |   |
| 5   | C             | Jeddy Stone above 450 mm to 600 mm  | 1 cum      | <b>188</b>         |   |
| 6   | d I.          | Laterite for revetment 225 mm   | 1 cum      | <b>118</b>         |   |
| 7   | d II.         | Laterite for revetment 300 mm   | 1 cum      | <b>138</b>         |   |
| 8   | d.iii         | Granite for SS revetment 225 mm   | 1 cum      | <b>154</b>         |   |
| 9   | d.iv          | Granite for SS revetment 300 mm   | 1 cum      | <b>156</b>         |   |
|   |               | Note:- Only when other granite is not available                             |            |                    |   |
| 10  | E             | Laterite for masonry  | 1 cum      | <b>136</b>         |   |
| 11  | F             | Cyclopean stones above 0.2 cum  | 1 cum      | <b>254</b>         |   |
| 12  | G             | For R.R.Masonry works (granite, dolomite and trap variety)                  | 1 cum      | <b>245</b>         | As per I& CAD (M148 of Material) other than covered under irrigation                      |

|    |      |  |       |             |  |
|----|------|--|-------|-------------|--|
| 13 |      | NOTE: - For items 22(a) to 22© and 22(g) add extra Rs /cum, wherever quarrying is done by blasting                                     | 1 cum | <b>76</b>   |  |
|    |      | <b>COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS</b>                                 |       |             |  |
| 14 | 23.a | Granite, Dolomite and trap   | 1 cum | <b>262</b>  |  |
| 15 | B    | For other varieties  | 1 cum | <b>188</b>  |  |
| 16 | 27   | Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)   | 1 cum | <b>1728</b> |  |
| 17 |      | NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting                                    | 1 cum | <b>74</b>   |  |
| 18 | 28   | Bond stones ( 600 x 200 x 200 mm )   | each  | <b>30</b>   |  |
| 19 | B    | Chainage stones and Centre line stones (750x150x150xmm)  | each  | <b>37</b>   |  |
| 20 | 31   | Demarcation Stones ( 900 x 150 x 150 mm)   | each  | <b>70</b>   |  |
| 21 | 32.a | Guard Stones ( 1200 x 200 x 200 mm )   | each  | <b>102</b>  |  |
| 22 | B    | Guide Stones ( 800 x 150 x150 mm )   | each  | <b>70</b>   |  |
| 23 | C    | Carving letters and figures in stone up to 100 mm size   | each  | <b>8</b>    |  |
| 24 | D    | Carving letters and figures in stone above 100 mm size   | each  | <b>9</b>    |  |
|    |      | <b>HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING.</b> |       |             |  |
| 25 | 33.a | - do - 6mm size (SS 5)   | 1 cum | <b>504</b>  | As per I& CAD (M050 of Material) other than covered under irrigation |
| 26 | b    | - do - 10mm size (SS 5)  | 1 cum | <b>656</b>  | As per I& CAD (M051 of Material) other than covered under irrigation |

|    |      |   |       |            |  |
|----|------|---|-------|------------|--|
| 27 | c    | - do - 12mm size (SS 5)   | 1 cum | <b>780</b> | As per I& CAD (M052 of Material) other than covered under irrigation |
| 28 | d    | - do - 20mm size (SS 5)   | 1 cum | <b>984</b> | As per I& CAD (M053 of Material) other than covered under irrigation |
| 29 | e    | - do - 25mm size (SS 5)   | 1 cum | <b>944</b> | As per I& CAD (M054 of Material) other than covered under irrigation |
| 30 | f    | - do - 40mm size (SS 5)   | 1 cum | <b>588</b> | As per I& CAD (M055 of Material) other than covered under irrigation |
| 31 | g    | - do - 50mm size (SS 5)   | 1 cum | <b>456</b> |  |
| 32 | h    | - do - 60mm size (SS 5)   | 1 cum | <b>419</b> |  |
| 33 | l    | - do - 65mm size (SS 5)   | 1 cum | <b>379</b> |  |
| 34 | j    | - do - 75mm size (SS 5)   | 1 cum | <b>304</b> |  |
| 35 | k    | - do - 75 to 100mm size (SS 5)  | 1 cum | <b>248</b> |  |
| 36 |      | NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting   |       | <b>70</b>  |  |
| 37 |      | (2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.  |       | 25%        |  |
| 38 |      | (3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.   |       | 9.9        |  |
| 39 |      | (4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made. |       | 17         |  |
|    |      |   |       | 9.9        |  |
|    |      | <b>SOFT BROKEN STONE SCREENED AND FREE FROM DUST</b>  |       |            |  |
| 40 | 33.l | - do - 40 mm size ( SS 5 )  | 1 Cum | <b>123</b> |  |
| 41 | 33.m | - do - 50 mm size ( SS 5 )  | 1 Cum | <b>111</b> |  |
| 42 | 33.n | - do - 60 mm size ( SS 5 )  | 1 Cum | <b>87</b>  |  |

|    |      |   |       |               |                       |
|----|------|---|-------|---------------|-----------------------|
| 43 | 33.o | - do - 65 mm size ( SS 5 )  | 1 Cum | <b>78</b>     |                       |
| 44 | 33.p | - do - 75 mm size ( SS 5 )  | 1 Cum | <b>73</b>     |                       |
|    |      | <b>HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)</b> |       |               |                       |
| 45 | 33a  | -do- 2.36 to 5 mm size (IRC&MORTH)  | 1 cum | <b>308.00</b> |                       |
| 46 | b    | -do- 5 to 7mm size (IRC&MORTH)  | 1 cum | <b>504.00</b> |                       |
| 47 | c    | -do- 9.5 to 11.2mm size (IRC&MORTH)   | 1 cum | <b>656.00</b> |                       |
| 48 | d    | -do- 12mm to 14 mm size ( IRC and MORTH )   | 1 cum | <b>780.00</b> |                       |
| 49 | e    | -do- 19 mm to 22 mm size ( IRC and MORTH )  | 1 cum | <b>984.00</b> |                       |
| 50 | f    | -do- 25 mm to 27 mm size ( IRC and MORTH )  | 1 cum | <b>944.00</b> |                       |
| 51 | g    | -do- 40 mm to 45 mm size ( IRC and MORTH )  | 1 cum | <b>588.00</b> |                       |
| 52 | h    | -do- 50 mm to 55 mm size ( IRC and MORTH )  | 1 cum | <b>456.00</b> |                       |
| 53 | i    | -do- 60 mm to 63 mm size ( IRC and MORTH )  | 1 cum | <b>419.00</b> |                       |
| 54 | j    | -do- 65 mm size ( IRC and MORTH )   | 1 cum | <b>379.00</b> |                       |
| 55 | k    | -do- 75 mm size ( IRC and MORTH )   | 1 cum | <b>304.00</b> |                       |
| 56 | 1    | NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting   | 1 cum | <b>70.00</b>  | As proposed by I& CAD |
| 57 | 2    | Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.  | 1 cum | 25%           | As proposed by I& CAD |
| 58 | 3    | Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders   | 1 cum | 9.90          |                       |
| 59 | 4    | Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this   | 1 cum | 17.00         |                       |

|    |       |   |       |               |  |
|----|-------|---|-------|---------------|--|
|    |       | addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made |       | 9.90          |  |
|    |       | <b>HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST</b>          |       |               |  |
| 60 | 33.q  | - do - 10 mm size (SS 5)  | 1 Cum | <b>386.00</b> |  |
| 61 |       | -do- 9.5 mm to 11.2 mm size ( IRC and MORTH )   | 1 Cum | <b>386.00</b> |  |
| 62 | r     | - do - 12 mm size (SS 5)  | 1 Cum | <b>362.00</b> |  |
| 63 |       | -do- 12mm to 14 mm size ( IRC and MORTH )   | 1 Cum | <b>362.00</b> |  |
| 64 | S     | - do - 20 mm size (SS 5)  | 1 Cum | <b>293.00</b> |  |
| 65 |       | -do- 19 mm to 22 mm size ( IRC and MORTH )  | 1 Cum | <b>293.00</b> |  |
| 66 | T     | - do - 25 mm size (SS 5)  | 1 Cum | <b>287.00</b> |  |
| 67 | U     | - do - 40 mm size (SS 5)  | 1 Cum | <b>170.00</b> |  |
| 68 |       | -do- 40 mm to 45 mm size ( IRC and MORTH )  | 1 Cum | <b>170.00</b> |  |
| 69 | V     | - do - 50 mm size (SS 5)  | 1 Cum | <b>150.00</b> |  |
| 70 |       | -do- 50 mm to 55 mm size ( IRC and MORTH )  | 1 Cum | <b>150.00</b> |  |
| 71 | 33.w  | - do - 65 mm size (SS 5)  | 1 Cum | <b>142.00</b> |  |
| 72 |       | -do- 60 mm to 65 mm size ( IRC and MORTH )  | 1 Cum | <b>142.00</b> |  |
| 73 | X     | - do - 75 mm size (SS 5)  | 1 Cum | <b>117.00</b> |  |
| 74 |       | - do - 75 mm size ( IRC &MORTH)   | 1 Cum | <b>117.00</b> |  |
| 75 | Y     | - do - 75 to 100 mm size (SS 5)   | 1 Cum | <b>92.00</b>  |  |
| 76 |       | - do - 75 to 100 mm ( IRC & MORTH)  | 1 Cum | <b>92.00</b>  |  |
|    |       | <b>OTHER ITEMS</b>  |       |               |  |
| 77 | 33.z1 | Laterite 40 to 75 mm ( ring)  | 1 Cum | <b>101.00</b> |  |
| 78 | z2    | kankar, hard broken kankar 40 to 75 mm ( ring )   | 1 Cum | <b>75.00</b>  |  |
| 79 | z3    | Soling stone of 150 mm size of granite, trap and Dolomite varieties.  | 1 Cum | <b>95.00</b>  |  |



|    |      |  |       |               |  |
|----|------|--|-------|---------------|--|
| 80 |      | NOTE: - (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23   | 1 Cum | <b>70.00</b>  | As proposed by I& CAD  |
| 81 | z4   | Soling stone of 150 mm size other than granite variety   | 1 Cum | <b>66.00</b>  |  |
| 82 | z5   | Soling Stone laterite, Kankar 150mm, surface stone   | 1 Cum | <b>41.00</b>  |  |
| 83 | z6   | Field picked metal unbroken 20 mm size   | 1 Cum | <b>55.00</b>  |  |
| 84 | z7   | - do - 25 mm size  | 1 Cum | <b>42.00</b>  |  |
| 85 | z8   | - do - 40 mm size  | 1 Cum | <b>48.00</b>  |  |
| 86 | z9   | - do - 50 mm size  | 1 Cum | <b>42.00</b>  |  |
| 87 | z10  | - do - 60 mm size  | 1 Cum | <b>36.00</b>  |  |
| 88 | z11  | - do - 80 mm size  | 1 Cum | <b>32.00</b>  |  |
| 89 |      | NOTE:- Add Rs. /- Per Cum for selection of stone and boulders from excavated spoil dumps for items 33 (Q) TO 33 Z, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum should invariably be made towards the metal or rubble if it is obtained from surface stone and boulders. |       | 17.00         |  |
| 90 | 34   | Gravel.  | 1 Cum | <b>98</b>     | As per I& CAD (M008 of Material) other than covered under irrigation |
| 91 | 35 a | Quarry rubbish   | 1 Cum | <b>81.00</b>  |  |
| 92 | B    | HBG Stone Chips 2.36mm and below   | 1 Cum | <b>330.00</b> | As per I& CAD (S.No.67 of Material)                                  |
| 93 | 36.a | Sand for mortar, plastering, ceiling coat including washing screening etc.,  | 1 Cum | <b>505.00</b> | As per I& CAD (S.No.28 of Material)                                  |
| 94 | b.   | Sand for concrete  | 1 Cum | <b>385.00</b> | As per I& CAD (S.No.27.a of Material)                                |
| 95 | c    | Sand for filling and blindage  | 1 Cum | <b>285.00</b> | As per I& CAD (S.No.27 b of Material)                                |

|   |                    |  |       |   |  |
|---|--------------------|--|-------|---|--|
| 96  | 37                 | Clay for puddle and masonry<br>Items 38 (a) to 39 (h) As per<br>local prevailing rates based on<br>competitive quotations. | 1 Cum | <b>35.00</b>  |  |
|   |                    | <b>(C) LIME AND CEMENT</b>   |       |   |  |
| 97  | 40 to<br>41(c<br>) |  |       | As per<br>Local<br>prevailing<br>rates<br>based on<br>competiti<br>ve rates |  |
| 98  | 42                 | Cement excluding cost of empty<br>cement bags  | 1 MT  | monthly<br>rates will<br>be<br>communi<br>ated by<br>Govt                   |  |
| NOTE: (1) The rates are inclusive of sales tax. 2) As per the<br>rates applicable to the District. 3) Least of the (1) and (2 )<br>above may be allowed 4) The price of cement will be<br>reviewed and fixed on monthly basis and rates will be<br>communicated separately. |                    |  |       |   |  |
| 99  | C                  | Grinding lime mortar or Surkhi<br>mortar   | 1 Cum | <b>94.00</b>  |  |
| 100   | D                  | Shell lime slaked and screened   | 1 Cum | <b>940.00</b>   |  |
| 101   | E                  | White cement   | 1 Kg. | <b>30.00</b>  |  |
| 102   |                    | <b>(D) MORTARS</b>   |       |   |  |
| 103   | 43 to<br>45        | Items 43 to 45   |       |   |  |
|   |                    | <b>(E) METAL AND IRON WORKS</b>  |       |   |  |
| 104   |                    | Mild steel rods 6mm dia.   | 1 MT  | The<br>monthly<br>rates will<br>be<br>communi<br>cated by<br>Govt.          |  |
| 105   |                    | Mild steel flats   | 1 MT  |   |  |
| 106   |                    | Mild Steel, Structural Steel, I.e.,<br>Angles, Channels and I sections.  | 1 MT  |   |  |
| 107   |                    | High Yield Strength Deformed<br>Bars/TMT bars  | 1 MT  |   |  |
| 108   |                    | Mild steel plates  | 1 MT  |   |  |
| NOTE: (1) The rates are inclusive of sales tax.<br>2)As per the rates applicable to the District. 3)<br>Least of the (1) and (2 ) above may allowed 4)<br>The prices of steel will be reviewed and fixed on<br>monthly basis and rates will be communicated<br>separately.  |                    |  |       |   |  |

| <b>III RATES OF WORKS</b> |       |   |       |              |  |
|---------------------------|-------|---|-------|--------------|--|
| <b>(A) CLEARING SITE</b>  |       |   |       |              |  |
| 109                       | 1.a   | Clearing heavy Jungle   | 1 Sqm | <b>2.90</b>  |  |
| 110                       | B     | Clearing light Jungle   | 1 Sqm | <b>2.60</b>  |  |
| 111                       | C     | Clearing Scrub Jungle   | 1 Sqm | <b>2.60</b>  |  |
| 112                       | D     | Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.     | 1 Sqm | <b>3.70</b>  |  |
| 113                       | 2.a.i | Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.                   | Each  | <b>19.00</b> |  |
| 114                       | li    | - do - 100 to 200 cm.   | Each  | <b>44.00</b> |  |
| 115                       | 2.b.i | Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.                | Each  | <b>46.00</b> |  |
| 116                       | li    | - do - 100 to 200 cm.   | Each  | <b>48.00</b> |  |
| 117                       | 2.c.i | Cutting and removing date trees including stacking of girth 30 to 100 cm                        | Each  | <b>24.00</b> |  |
| 118                       | li    | - do - 100 to 200 cm  | Each  | <b>35.00</b> |  |
| 119                       | d.i   | Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.           | Each  | <b>24.00</b> |  |
| 120                       | li    | - do - 100 to 200 cm  | Each  | <b>30.00</b> |  |
| 121                       | e i   | Cutting and removing other kind of trees including stacking of girth 30 to 100 cm               | Each  | <b>30.00</b> |  |
| 122                       | li    | - do - 100 to 200 cm  | Each  | <b>46.00</b> |  |
| 123                       | iii   | - do - above 200 cm   | Each  | <b>75.00</b> |  |
| 124                       | f.i   | Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.  | Each  | <b>24.00</b> |  |
| 125                       | li    | - do - 100 to 200 cm  | Each  | <b>33.00</b> |  |
| 126                       | iii   | - do - above 200 cm   | Each  | <b>41.00</b> |  |
| 127                       | 3.a   | Uprooting and clearing prickly pear jungle  | 1 Sqm | <b>2.30</b>  |  |
| 128                       | B     | - do - under 2.5 meters height including burning and burrying as directed.                      | 1 Sqm | <b>3.00</b>  |  |
| 129                       | C     | - do - over 2.5 meters height including burning and burrying with an initial lead of conveyance | 1 Sqm | <b>3.50</b>  |  |

|     |       |   |        |               |  |
|-----|-------|---|--------|---------------|--|
| 130 | 4.a   | Removing of natchu, goobi, thooti etc., from drains, channels including clearance if not more than 1 metre depth of water with an initial lead of 10 metres and lift of 2 metres. | 1 Sqm  | <b>1.90</b>   |  |
| 131 | b.i   | Clearing alchi, tilla   | 1 Sq.m | <b>3.80</b>   |  |
| 132 | b.ii  | Removal of Jammu  | 1 Sq.m | <b>3.30</b>   |  |
| 133 | c.i   | Removal of imponea, cornea  | 1 Sq.m | <b>3.60</b>   |  |
| 134 | c.ii  | Removal of water hyacinth upto 30 cm thick.   | 1 Sqm  | <b>3.70</b>   |  |
| 135 | c.iii | - do - more than 30 cm thick  | 1 Sq.m | <b>5.00</b>   |  |
| 136 | D     | Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.  | 1 Sqm  | <b>1.40</b>   |  |
|     |       | <b>(B) DISMANTLING</b>  |        |               |  |
|     | 5     | <b>DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.</b>   |        |               |  |
| 137 | n.(i) | Dry rough stone revetment for aprons and stacking within 40 metres  | 1 cum  | <b>62.50</b>  |  |
|     | 7     | <b>Drilling holes in hard granite or sheet rock</b>   |        |               |  |
|     | a)    | <b>Manually ( Hand)</b>   |        |               |  |
| 138 | i)    | 20 mm dia meter   | 1 RM   | <b>124.00</b> |  |
| 139 | ii)   | 25 mm dia meter   | 1 RM   | <b>131.00</b> |  |
| 140 | iii)  | 36 mm dia meter   | 1 RM   | <b>151.00</b> |  |
| 141 | b)    | <b>Pneumatic Compressor</b>   |        |               |  |
| 142 | i)    | 20 mm dia meter   | 1 RM   | <b>140.00</b> |  |
| 143 | ii)   | 25 mm dia meter   | 1 RM   | <b>152.00</b> |  |
| 144 | iii)  | 36 mm dia meter   | 1 RM   | <b>165.00</b> |  |
|     | 8     | <b>Grouting the holes with neat cement slurry excluding cost of steel</b>   |        |               |  |
| 145 | i)    | 20 mm dia meter   | 1 RM   | <b>88.00</b>  |  |
| 146 | ii)   | 25 mm dia meter   | 1 RM   | <b>111.00</b> |  |
| 147 | iii)  | 36 mm dia meter   | 1 RM   | <b>138.00</b> |  |
|     |       | <b>White Washing and Painting works</b>   |        |               |  |

|     |        |   |        |              |  |
|-----|--------|---|--------|--------------|--|
| 148 | A 1    | White washing and colour banding for guard and guide stones including cost of materials   | each   | <b>8.60</b>  |  |
| 149 | B 1    | Screening sand and gravel   | 1 cum  | <b>9.30</b>  |  |
| 150 | B 2    | Screening chips and metal   | 1 cum  | <b>16.00</b> |  |
| 151 | C 1    | Removing and refixing Hectometre or Demarcation stones  | each   | <b>11.50</b> |  |
|     |        | <b>(S) ROAD WORK ITEMS</b>  |        |              |  |
|     |        | <b>PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGEBUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OF GRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER ( 1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE</b> |        |              |  |
|     |        | ( For a compact thickness )   |        |              |  |
|     | 1 (I)  | <b>HARD METAL</b>   |        |              |  |
| 152 | A      | 40 mm thickness   | 10 sqm | <b>70.00</b> |  |
| 153 | B      | 50 mm thickness   | 10 sqm | <b>74.00</b> |  |
| 154 | C      | 75 mm thickness   | 10 sqm | <b>80.30</b> |  |
| 155 | D      | 100 mm thickness  | 10 sqm | <b>87.00</b> |  |
| 156 | 1 (ii) | <b>(For compact thickness of soft metal)</b>  |        |              |  |
| 157 | A      | 50 mm thickness   | 10 sqm | <b>53.80</b> |  |
| 158 | B      | 75 mm thickness   | 10 sqm | <b>63.90</b> |  |
| 159 | C      | 100 mm thickness  | 10 sqm | <b>70.10</b> |  |
|     | 5      | <b>Picking old metalled surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage</b>   |        |              |  |

|     |       |   |           |   |  |
|-----|-------|---|-----------|---|--|
|     |       | and power roller rolling including hire charges of power roller( 8 to 10 T ) barricading and diversion of traffic and wetting the new consolidation for a fortnight (for compacted thickness of ) |           |   |  |
|     |       | <b>HARD METAL</b>   |           |   |  |
| 160 | 5 (a) | 40 mm thick ness  | 10 sqm    | <b>185.00</b>                                   |  |
| 161 | (b)   | 50 mm thick ness  | 10 sqm    | <b>210.00</b>                                   |  |
| 162 | (c )  | 75 mm thick ness  | 10 sqm    | <b>231.30</b>                                   |  |
| 163 | (d )  | 100 mm thick ness   | 10 sqm    | <b>248.80</b>                                   |  |
| 164 | (e)   | 150 mm thick excluding hire charges   | 10 sqm    | <b>445.40</b>                                   |  |
| 165 |       | Gelatin(For MORTH data, for works of state & national high ways only)   | Per Kg    | <b>73.00</b>                                    | As per I& CAD (M104 of Material) other than covered under irrigation |
| 166 |       | Electric Detonators(For MORTH data, for works of state & national high ways only)   | each      | <b>13.00</b>                                    | As per I& CAD (M094 of Material) other than covered under irrigation |
| 167 |       | Hot applied thermoplastic compound(For MORTH data, for works of state & national high ways only)  | Per Litre | <b>Rate as per local competitive quotations</b> | As per I& CAD (M118 of Material) other than covered under irrigation |
| 168 |       | Reflectionising glass beads of 2 mm thick(For MORTH data, for works of state & national high ways only)   | Per Kg    | <b>80.30</b>                                    |  |
| 169 |       | Road marking paint conforming to IS 164(For MORTH data, for works of state & national high ways only)   | Per Kg    | <b>196.60</b>                                   |  |
| 170 | n     | Labour charges for laying filters with coarse aggregate.  | 1 cum     | <b>55.30</b>                                    |  |
| 171 | o     | Labour charges for laying filter with sand.   | 1 cum     | <b>30.70</b>                                    |  |
|     |       | <b>New Items.</b>   |           |   |  |
| 172 |       | Fly Ash   | 1 cum     |   |  |
| 173 |       | Binding wire  | 1 Kg.     | <b>70.00</b>                                    | As per I& CAD (M072 of Material) other than covered under irrigation |

**HIRE CHARGES OF  
PLANT AND MACHINERY  
FOR ROAD & BRIDGE WORKS**

**HIRE CHARGES OF PLANT& MACHNIERY FOR  
ROAD & BRIDGE WORKS FOR THE YEAR 2013-14**

| Sl. No. | Description                  |  | Unit     | SoRate for 2013-14 | Remarks                 |
|---------|------------------------------|--|----------|--------------------|-------------------------|
|         | Machine                      | Activity                                     |          | ( Rupees)          |                         |
| 1       | 2                            | 3  | 4        | 5                  |                         |
| 1       | Dozer( D 80 )                | Spreading                                    | Per Hour | 2511.70            | As per I& CAD (S.No.8)  |
|         |                              | Cutting                                      |          |                    |                         |
|         |                              | Cleaning                                     |          |                    |                         |
| 2       | Dozer( D 50 )                | Spreading                                    | Per Hour | 1570.00            |                         |
|         |                              | Cutting                                      |          |                    |                         |
|         |                              | Cleaning                                     |          |                    |                         |
| 3       | Mortor Grader                | Clearing                                     | Per Hour | 3216.00            |                         |
|         |                              | Spreading                                    |          |                    |                         |
|         |                              | GSB  |          |                    |                         |
|         |                              | WMM  |          |                    |                         |
| 4       | Hydraulic Excavator          | Soil Ordinary                                | Per Hour | 2754.50            | As per I& CAD (S.No.53) |
|         |                              | Soil Marshy                                  |          |                    |                         |
|         |                              | Soil unsuitable                              |          |                    |                         |
| 5       | Front end loader             | Soil loading                                 | Per Hour | 1646.00            |                         |
|         |                              | Aggregate loading                            | Per Hour |                    |                         |
| 6       | Tipper- 5.5 Cum              | Transportation of soil, GSB,WMM, Hot mix etc | Per Hour | 877.30             | As per I& CAD (S.No.55) |
| 7       | Vibratory roller 8 tone      | Earth/Soil, GSB,                             | Per Hour | 2541.40            | As per I& CAD (S.No.63) |
|         |                              | WMM  |          |                    |                         |
| 8       | Smooth wheeled roller 8 tone | Soil compaction ,BM compaction               | Per Hour | 1038.40            | As per I& CAD (S.No.51) |
| 9       | Water tanker 8 Kilolitre     | Water transport                              | Per Hour | 832.10             | As per I& CAD (S.No.65) |
| 10      | Water tanker 6 Kilolitre     | Water transport                              | Per Hour | 624.00             |                         |
| 11      | Tractor                      | Pulling                                      | Per Hour | 415.00             |                         |



|    |  |                              |          |          |                        |
|----|--|------------------------------|----------|----------|------------------------|
| 12 | Tractor with rotavator/Grader                          | Scarifying                   | Per Hour | 422.00   |                        |
| 13 | Tractor with ripper attachment                         | Scarifying                   | Per Hour | 422.00   |                        |
| 14 | Air Compressor 5 cmm (electric)                        | General purpose              | Per Hour | 499.40   | As per I& CAD (S.No.2) |
| 15 | Wet mix plant 60 TPH                                   | Wet mix                      | Per Hour | 1646.00  |                        |
| 16 | Mechanical broom Hydraulic                             | Surface cleaning             | Per Hour | 357.00   |                        |
| 17 | Bitumen Pressure Distributor                           | Applying bitumen tack coat   | Per Hour | 1498.00  |                        |
| 18 | Emulsion Pressure Distributor                          | Applying emulsion tack coat  | Per Hour | 860.00   |                        |
| 19 | Hot mix Plant – 120 TPH capacity                       | DBM/BM/SDC                   | Per Hour | 28175.00 |                        |
|    |  | /Premix                      |          |          |                        |
| 20 | Hot mix Plant – 100 TPH capacity                       | DBM/BM/SDC                   | Per Hour | 24171.00 |                        |
|    |  | /Premix                      |          |          |                        |
| 21 | Hot mix Plant – 60 TPH capacity                        | DBM/BM/SDC                   | Per Hour | 21668.00 |                        |
|    |  | /Premix                      |          |          |                        |
| 22 | Hot mix Plant – 40 to 60 TPH capacity                  | DBM/BM/SDC                   | Per Hour | 19120.00 |                        |
|    |  | /Premix                      |          |          |                        |
| 23 | Paver Finisher Hydrostatic with sensor control 100 TPH | DBM/BM/SDC                   | Per Hour | 11441.00 |                        |
|    |  | /Premix                      |          |          |                        |
| 24 | Paver finisher Mechanical 100                          | Paving of WMM, paving of DLC | Per Hour | 2249.00  |                        |
| 25 | Hydraulic Chip Spreader                                | Surface dressing             | Per Hour | 2567.00  |                        |
| 26 | Tandem Road roller                                     | Rolling of Asphaltic surface | Per Hour | 1646.00  |                        |
| 27 | Pneumatic Road roller                                  | Rolling of Asphaltic surface | Per Hour | 1283.00  |                        |
| 28 | Pot-Hole repair machine                                | Repair of pot-holes          | Per Hour | 845.00   |                        |

|    |   |  |          |         |                         |
|----|---|--|----------|---------|-------------------------|
| 29 | Bitumen boiler oil fired                      | Bitumen Spraying                           | Per Hour | 209.00  |                         |
| 30 | GSB Plant 50 Cum                              | Producing GSB                              | Per Hour | 1143.00 |                         |
| 31 | Mastic Cooker                                 | Mastic wearing coat                        | Per Hour | 65.00   |                         |
| 32 | Batching and Mixing Plant (a) 50 Cum capacity | Concrete mixing                            | Per Hour | 1231.90 |                         |
|    | (b) 15 Cum capacity                           | Concrete mixing                            | Per Hour | 1037.20 | As per I& CAD (S.No.10) |
| 33 | Transit mixer                                 | Transportation of concrete mix             | Per Hour | 1819.10 | As per I& CAD (S.No.1)  |
| 34 | Concrete pump of 45 and 30 cum                | Pumping of Concrete                        | Per Hour | 803.00  |                         |
| 35 | Cranes (Non Hydraulic)                        |  |          |         |                         |
|    | (a) 80 tones                                  | Lifting purpose                            | Per Hour | 1171.00 |                         |
|    | (b) 35 tonnes                                 |  |          | 791.00  |                         |
|    | (c) 3 tonnes                                  |  |          | 352.00  |                         |
|    | (d)Crane with grab bucket 0.75 cum            | Well foundation                            | Per Hour | 2160.00 |                         |
|    | (e)Crane with grab bucket 1 cum               | Well foundation                            | Per Hour | 3532.00 |                         |
| 36 | Concrete bucket 1.50 cum                      | For pouring concrete                       | Per Hour | 16.20   | As per I& CAD (S.No.14) |
| 37 | Kerb casting machine                          | Kerb making                                | Per Hour | 311.00  |                         |
| 38 | Concrete mixer/ Mix all                       | Concrete mixing                            | Per Hour |         |                         |
|    | (a)0.28 cum                                   |  |          | 417.40  | As per I& CAD (S.No.18) |
|    | (b) 1.0 cum                                   |  |          | 649.00  |                         |
| 39 | Piling rig with bantonite pump                | 0.75 m dia to 1.20 m dia boring attachment | Per Hour | 5475.00 |                         |
| 40 | Concrete paver finisher with 40 HP motor      | Paving of concrete surface                 | Per Hour | 2900.00 |                         |

|   |   |                                  |          |          |                         |
|---|---|----------------------------------|----------|----------|-------------------------|
| 41  | Integrated stone crusher                | Crushing of spalls 100 TPH       | Per Hour | 8712.00  |                         |
|   |   | Crushing of spalls 200 TPH       | Per Hour | 18369.00 |                         |
| 42  | Pre stressing jack with pump and access | Stressing of steel wires/ stands | Per Hour | 141.00   |                         |
| 43  | Generator                               |                                  |          |          |                         |
|   | 250 KVA                                 | Generation of electric energy    | per hour | 1850.00  |                         |
|   | 125 KVA                                 |                                  | per hour | 1320.00  |                         |
|   | 100 KVA                                 |                                  | per hour | 1126.00  |                         |
|   | 30 KVA                                  |                                  | per hour | 766.40   | As per I& CAD (S.No.24) |
| 44  | Pneumatic sinking of Plants             | Pneumatic sinking of wells       | Per K.m. | 56.00    |                         |
| 45  | Truck 5.5 cum per 10 tones              | Material transport               | Per Hour | 843.90   | As per I& CAD (S.No.59) |
| 46  | Road marking machine                    | Road marking                     | Per Hour | 111.00   |                         |
| 47  | Mobile slurry seal equipment            | Mixing and laying slurry seal    | Per Hour | 1126.00  |                         |
| 48  | Plate compacter                         | For compacting in medians        | Per Hour | 48.00    |                         |
| 49  | Drilling equipment                      | For drilling                     | Per Hour | 775.70   | As per I& CAD (S.No.23) |
| <b>Note: The above hire charges of machinery &amp; plant includes crew, oils, conveyance of machinery to site and all other incidental charges.</b> |   |                                  |          |          |                         |

# **PUBLIC HEALTH ITEMS**

| <b>PUBLIC HEALTH ITEMS</b> |   |             |  |
|----------------------------|---|-------------|--|
| <b>Sl. No.</b>             | <b>Description</b>  | <b>Unit</b> | <b>SoR for 2013-2014</b>   |
| <b>1</b>                   | <b>2</b>  | <b>3</b>    | <b>4</b>   |
| <b>1</b>                   | <b>RATES OF LABOUR (SKILLED WORKMEN)</b>  |             |  |
|                            | 1. Caulkar  | Per Day     | As per Labour rates of SoR   |
|                            | 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 Operator  | Per Day     |  |
|                            | 9. Bore Mechanic  | Per Day     |  |
|                            | 10. Light Vehicle Driver  | Per Day     |  |
|                            | Note: The rate at relevant item in common SoR is applicable for occasional employment.  |             |  |
| <b>2</b>                   | <b>RATES FOR EARTH WORK :</b>   |             |  |
| a.                         | Earth work excavation in all types 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 |
| b.                         | Earth work excavation in all types 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 types 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. |             |  |
| 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  |             |  |
|                            | NOTE :- 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.  |             |  |

| Sl. No. | Description  | Unit                              | SoR for 2013-2014                 |
|---------|--|-----------------------------------|-----------------------------------|
| 1       | 2  | 3                                 | 4                                 |
| 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 upto 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 upto 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.  |                                   | To follow as per AP.Standard data |
| a.      | C.I. Pipes/D.I. Pipes and fittings   | Per Tonne                         |                                   |
| b.      | A.C. Pipes & Specials  | Per Tonne                         |                                   |
|         | Note:- 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.  |                                   |                                   |
| 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)          |                                   | To follow as per AP.Standard data |
|         | Diameter of Pipe/Fittings in mm :  |                                   |                                   |
|         | 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 :  |                                   |                                   |
|         | 80mm to 750mm dia  | To follow as per AP.Standard data |                                   |
|         | 800mm dia  | Per Metre                         | 438.00                            |
|         | 900mm dia  | Per Metre                         | 569.00                            |
|         | 1000mm dia   | Per Metre                         | 740.00                            |
|         | 1100mm dia   | Per Metre                         | 912.00                            |

| Sl. No. | Description  | Unit                              | SoR for 2013-2014                 |
|---------|--|-----------------------------------|-----------------------------------|
| 1       | 2  | 3                                 | 4                                 |
|         | 1200mm dia   | Per Metre                         | 1084.00                           |
| 9. a.   | Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, Spun 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 :  |                                   |                                   |
|         | 80mm to 800mm  | To follow as per AP.Standard data |                                   |
|         | 900mm dia  | Each Joint                        | 12593.00                          |
|         | 1000mm dia   | Each Joint                        | 14068.00                          |
|         | 1100mm dia   | Each Joint                        | 15543.00                          |
|         | 1200mm dia   | Each Joint                        | 17018.00                          |
| 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)  |                                   | To follow as per AP.Standard data |
|         | Diameter of Pipe/Fittings in mm :  |                                   |                                   |
|         | 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.)   |                                   | To follow as per AP.Standard data |
|         | Diameter of pipe/Fittings/ valve in mm :   |                                   |                                   |
|         | 80mm to 750mm dia  | Each Joint                        |                                   |
|         | 800mm dia  | Each Joint                        | 5280.00                           |
|         | 900mm dia  | Each Joint                        | 6210.00                           |
|         | 1000mm dia   | Each Joint                        | 7151.00                           |
|         | 1100mm dia   | Each Joint                        | 8116.00                           |
|         | 1200mm dia   | Each Joint                        | 9115.00                           |
| 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 upto 500 metres excluding cost of rubber rings as per BIS No.783/85. |                                   |                                   |
|         | per every 25 mm dia.   | Per Metre                         | 16.00                             |
| 11b     | Lowering the RCC S/S pipes carefully into the ready made trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead upto 500 meters including cost of rubber rings as per BIS No. 783/1985   |                                   | To follow as per AP.Standard data |
|         | per every 25 mm dia.   | Per Metre                         |                                   |
|         | 80mm to 600mm  |                                   |                                   |

| Sl. No. | Description   | Unit      | SoR for 2013-2014                  |
|---------|---|-----------|------------------------------------|
| 1       | 2   | 3         | 4                                  |
|         | 700mm dia   |           | 265.00                             |
|         | 800mm dia   |           | 318.00                             |
|         | 900mm dia   |           | 382.00                             |
|         | 1000mm dia  |           | 457.00                             |
| 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               |           | To follow as per AP.Standard data  |
| a       | G.I. Pipes :Dia in mm   |           |                                    |
|         | 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 including trench excavation and refiling.   |           |                                    |
|         | Dia in mm   |           |                                    |
|         | 50mm dia  | Per Metre | 25.00                              |
|         | 40mm dia  | Per Metre | 25.00                              |
|         | 32mm dia  | Per Metre | 25.00                              |
|         | 25mm dia  | Per Metre | 23.00                              |
|         | 20mm dia  | Per Metre | 22.00                              |
|         | Note:(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)   |           | To follow as per AP. Standard data |
|         | Dia of Pipes in mm .  |           |                                    |
|         | 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 |           | To follow as per AP. Standard data |
|         | Dia of Pipes in mm .  |           |                                    |
|         | 63mm to 315mm   | Per Metre |                                    |
| 15      | Laying and jointing of HDPE pipes by butt fusion welding as per IS:7634 – 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  |           |                                    |
|         | 63mm dia OD   | Per Metre | 32.00                              |



| Sl. No. | Description  | Unit      | SoR for 2013-2014                  |
|---------|--|-----------|------------------------------------|
| 1       | 2  | 3         | 4                                  |
|         | 75mm dia OD  | Per Metre | 35.00                              |
|         | 90mm dia OD  | Per Metre | 40.00                              |
|         | 110mm dia OD   | Per Metre | 45.00                              |
|         | 125mm dia OD   | Per Metre | 55.00                              |
|         | 140mm dia OD   | Per Metre | 58.00                              |
|         | 160mm dia OD   | Per Metre | 63.00                              |
|         | 180mm dia OD   | Per Metre | 69.00                              |
|         | 200mm dia OD   | Per Metre | 75.00                              |
|         | 225mm dia OD   | Per Metre | 83.00                              |
|         | 250mm dia OD   | Per Metre | 88.00                              |
|         | 280mm dia OD   | Per Metre | 97.00                              |
|         | 315mm dia OD   | Per Metre | 166.00                             |
|         | 355mm dia OD   | Per Metre | 185.00                             |
|         | 400mm dia OD   | Per Metre | 206.00                             |
|         | 450mm dia OD   | Per Metre | 229.00                             |
| 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                         |           | To follow as per AP. Standard data |
|         | <u>Dia of Valve in mm.</u>   |           |                                    |
|         | 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.  |           | To follow as per AP. Standard data |
|         | <u>Dia of Air valve in mm.</u>   |           |                                    |
|         | 25mm dia   | Each      |                                    |
|         | 40mm dia   | Each      |                                    |
|         | 50mm dia   | Each      | 136.00                             |
|         | 65mm dia   | Each      | 145.00                             |
|         | 80mm dia   | Each      | 158.00                             |
|         | 100mm dia  | Each      | 186.00                             |
|         | 125mm dia  | Each      | 290.00                             |
|         | 150mm dia  | Each      | 318.00                             |
| 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. |           |                                    |
|         | <u>Dia of Air valve in mm.</u>   |           |                                    |
|         | 25mm dia   | Each      | 129.00                             |
|         | 40mm dia   | Each      | 146.00                             |
|         | 50mm dia (Double Air valves)   | Each      | 155.00                             |
|         | 65mm dia (Double Air valves)   | Each      | 166.00                             |
|         | 80mm dia (Double Air valves)   | Each      | 182.00                             |
|         | 100mm dia (Double Air valves)  | Each      | 212.00                             |
|         | 125mm dia (Double Air valves)  | Each      | 331.00                             |
|         | 150mm dia (Double Air valves)  | Each      | 362.00                             |

| Sl. No. | Description  | Unit         | SoR for 2013-2014                  |
|---------|--|--------------|------------------------------------|
| 1       | 2  | 3            | 4                                  |
| 19      | 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.          |              | To follow as per AP. Standard data |
|         | 80mm to 600mm  | Per Metre    |                                    |
| 20      | Uprooting of RCC pipes including breaking the collars, loosening the joint, seperating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling. | Per Metre    | To follow as per AP. Standard data |
|         | 100mm to 300mm   |              |                                    |
| 21      | 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.          |              | To follow as per AP.Standard data  |
|         | Dia of Pipes in mm   |              |                                    |
|         | 15mm to 50mm   | Per Metre    |                                    |
| 22      | Cutting C.I./ DI Pipes without water in mains.Dia of pipes in mm.  |              |                                    |
|         | Dia of Pipes in mm   |              | To follow as per AP.Standard data  |
|         | 80mm to 600mm  | Each cut     |                                    |
|         | 680mm dia  | Each cut     | 384.00                             |
|         | 700mm dia  | Each cut     | 395.00                             |
|         | 750mm dia  | Each cut     | 424.00                             |
|         | 800mm dia  | Each cut     | 452.00                             |
|         | 900mm dia  | Each cut     | 508.00                             |
|         | 1000mm dia   | Each cut     | 564.00                             |
|         | 1100mm dia   | Each cut     | 622.00                             |
|         | 1200mm dia   | Each cut     | 678.00                             |
| 23      | Cutting A.C. Pipes without water in mains.Dia of pipes in mm.  | Each cut     |                                    |
|         | Dia of Pipes in mm   |              |                                    |
|         | 80mm dia   | Each cut     | 25.00                              |
|         | 100mm dia  | Each cut     | 25.00                              |
|         | 125mm dia  | Each cut     | 25.00                              |
|         | 150mm dia  | Each cut     | 25.00                              |
|         | 200mm dia  | Each cut     | 26.00                              |
|         | 250mm dia  | Each cut     | 43.00                              |
|         | 300mm dia  | Each cut     | 43.00                              |
|         | 350mm dia  | Each cut     | 53.00                              |
|         | 400mm dia  | Each cut     | 58.00                              |
|         | 450mm dia  | Each cut     | 73.00                              |
|         | 500mm dia  | Each cut     | 81.00                              |
|         | 600mm dia  | Each cut     | 89.00                              |
| 24      | Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.  |              | To follow as per AP. Standard data |
|         | 10 mm to 20mm  | Each Tapping |                                    |
|         | 25 mm to 40mm  | Each Tapping |                                    |
| 25      | Cutting road surface including stacking of excavated materials for pipe line trench work.  |              |                                    |

| Sl. No. | Description   | Unit                  | SoR for 2013-2014                  |
|---------|---|-----------------------|------------------------------------|
| 1       | 2   | 3                     | 4                                  |
|         | a) Cutting open B.T. road surface (as well as asphalt concrete upto 75 mm thick) including water bound macadam  | 10 Sqm                | 518.00                             |
|         | b) Cutting open C.C. road surface   | 1 Cum                 | 1440.00                            |
|         | c) Cutting open water bound macadam road including soiling  | 1 Cum                 | 177.00                             |
| 26      | Bailing out water.(For PH item)   |                       |                                    |
|         | a) Bailing out water from the pipe line trenches with oil engine driven pumpsets, including hire charges, fuel charges and wages for Driver and Helper.   | HP/Hour               | 44.00                              |
|         | b) Bailing out water from the pipe line trenches with Electric Driven pumpset including hire charges, current charges and wages for Driver and Helper.  | HP/Hour               | 32.00                              |
|         | NOTE:- 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.  |                       |                                    |
| 27      | Shoring and strutting of trenches for water and sewer main.   |                       |                                    |
|         | a) Single Staging from (0 to 2.5 Mts.)  | 1 Sqm of Shoring area | To follow as per AP. Standard data |
|         | b) Double staging from (2.5 m to 4.5 Mts.)  | 1 Sqm of Shoring area |                                    |
| 28      | Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.  | 1 RMT                 | To follow as per AP. Standard data |
| 29      | 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                | 9645.00                            |
|         | b) 1 to 2 m deep under water.   | 10 Cum                | 13815.00                           |
|         | c) 2 to 5 m deep under water.   | 10 Cum                | 20737.00                           |
|         | d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'   | 10 Cum                | 3962.00                            |
|         | NOTE:- The above rates do not include rock requiring blasting or chiselling   |                       |                                    |
| 30      | Laying and jointing perforated RCC pipes 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 Metre             | 30.00                              |
|         | per every 25 mm dia.  |                       |                                    |
| 31      | Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.  |                       |                                    |

| Sl. No. | Description   | Unit                      | SoR for 2013-2014                          |
|---------|---|---------------------------|--|
| 1       | 2   | 3                         | 4  |
| a)      | for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.   | One Sqm of Centering area |  |
|         | 1) Slabs for thickness (150 mm to 300 mm)   |                           | 2577.00                                    |
|         | 2) Slabs for thickness above (300 mm)   |                           | 5152.00                                    |
|         | 3) Side walls curved surfaces.  |                           | 1947.00                                    |
|         | 4) Side wall straight surfaces.   |                           | 1733.00                                    |
|         | 5) Dome.  |                           | 2110.00                                    |
|         | 6) Roof Slab.   |                           | 1299.00                                    |
|         | 7) Column braces and beams  |                           | 869.00                                     |
|         | 8) Circular braces, ring beams & circular column.   |                           | 953.00                                     |
|         | Note:- 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 Cum                     |  |
|         | 3) Sun shades   | 1 Sqm                     |  |
|         | 4) RCC vertical walls of plane surface  | 1 Sqm of centering area   | As per Building SoR                        |
|         | 5) RCC vertical walls of circular faces   | 1 Sqm of centering area   | 30% extra over the rates of Plane surfaces |
|         | NOTE: Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m. The above centering charges are applicable for water retaining structures only.  |                           |  |
| 32      | Lift or delift of materials :   |                           |  |
|         | a) Lifting of cement concrete for RCC elevated reservoir. For every 1m height or part thereof over the initial lift of 3 m  | 1 Cum                     | To adopt as per Building SoR               |
|         | 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 1 m depth or part thereof beyond the initial depth of 3 meters from ground level. | 1 Cum                     | 50% of the lift rates                      |
| 33      | Labour charges for fixing ventilating shafts complete with all accessories.   | Each                      | To follow as per AP.Standard data          |
| 34      | Labour charges for fixing water closets including fixing of foot rests (for all sizes).   | Each                      |  |

| Sl. No. | Description   | Unit      | SoR for 2013-2014                   |
|---------|---|-----------|-------------------------------------|
| 1       | 2   | 3         | 4                                   |
| 35      | Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete   | Each      | Relevant Building SoR items         |
| 36      | Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete   | Each      |                                     |
| 37      | Fixing urinal with inlet and waste pipe connections etc., complete.   | Each      |                                     |
| 38      | Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete   | 10 Cum    |                                     |
| 39(a)   | Extra allowance for isolated scattered works viz., valve pits / chambers, public fountains, meter pits and manholes, delivery cistern etc., complete.   | Each      | 50% extra over the cost of chamber. |
| (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.  |           | 150% extra over the cost of work    |
| 40      | Removal of wet silt and sludge from sullage drains with aid of baskets and vessels.   | 10 Cum    | 1450.00                             |
| 41      | 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 |           |                                     |
|         | Upto 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 |                                     |
|         | Note:-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.  |           |                                     |
| 42      | 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                       |
| 43      | Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.  |           |                                     |
| a       | 500 Kilo litres   | Per litre | 15.63                               |
| b       | 1000 Kilo litres  | Per litre | 12.92                               |
| c       | 1500 Kilo litres  | Per litre | 11.65                               |
| d       | 2000 Kilo litres  | Per litre | 10.90                               |
| e       | 2500 Kilo litres  | Per litre | 10.22                               |
|         | 1) For intermediate ranges proportional rates may be adopted. All VRCC shall be in M30 grade design mix.  |           |                                     |
|         | 2) The above rates are applicable for ELSRs / OHSRs with Raft foundation footings and rate of Rs.4,100/- per tonne for cement and Rs.43,000/- per tonne for steel.  |           |                                     |

| Sl. No. | Description  | Unit | SoR for 2013-2014 |
|---------|--|------|-------------------|
| 1       | 2  | 3    | 4                 |
|         | 3) For every metre of staging less than 15 m, the rate shall be reduced by Rs.0.05 paise per litre per every metre of difference in staging  |      |                   |
|         | 4) For every metre of staging above 15 m, the rate shall be increased by Rs.0.10 paise per litre per every metre of additional in staging  |      |                   |
|         | 5)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by<br>Basic Rate x (Rc-4100) x 0.00007<br>Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate   |      |                   |
|         | 6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by<br>Basic Rate x (RS-43000) x 0.00002<br>Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.   |      |                   |
|         | 7) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.   |      |                   |
|         | 8) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of wheather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections including cost of pipes,bends and valves as per departmental designs and drawings. |      |                   |
|         | 9) The above rates are applicable for wind pressure upto 350 kg / sqm. For every 100 kg/sqm decrease in wind pressure, the rate is to be decreased by 5%   |      |                   |
|         | 10) For tribal/Agency / Rural area, the above rates shall be increased by 10%  |      |                   |
|         | 11) If the ELSR is to be designed for seismic forces a) The above rates are applied upto Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 33 1/3% .   |      |                   |
|         | 12) Fixtures include.  |      |                   |
|         | a) A balcony of 1.0 m width at floor slab level/middle ring beam level/ top ring beam level with S.S pipe hand railing upto 1.0mts height.   |      |                   |
|         | b) D.I. Manhole frame and cover OF 0.60 x 0.6 m size : 2 Nos.  |      |                   |
|         | c) D.I swan neck ventilators shall be provided in top dome and slab for mosquito proof.  |      |                   |
|         | d) RCC Finial - 1 No.  |      |                   |
|         | e) RCC precast ladders 0.60 m wide - 2 Nos.  |      |                   |

| Sl. No. | Description   | Unit | SoR for 2013-2014 |
|---------|---|------|-------------------|
| 1       | 2   | 3    | 4                 |
|         | f) RCC dog legged stair case with 1.0mts staircase flight width and 1.20mts landing width with S.S railing of 1.mts height - 1 No.  |      |                   |
|         | g) Latest Water level indicator-Digital water level indicators of reputed make - 1 No.  |      |                   |
|         | h) Lightening arrester with all its accessories complete including earthing - 1 No.   |      |                   |
|         | i) Construction of R.C.C valve chambers   |      |                   |
|         | j) For 500KL to 1000KL two rows columns shall be provided .   |      |                   |
|         | k) Above 1000KL three rows columns shall be provided .  |      |                   |
|         | l) Minimum staging for all ELSR/OHSR shall be 12.0mts.  |      |                   |
|         | m) The increase in staging shall be at 1.0mt interval.  |      |                   |
|         | n) The railing provided to the gallery and staircase shall be with stainless steel of grade 304 for a height of 1.20mts   |      |                   |
|         | o). The staircase shall be enclosed with brick/CRS wall on three side and collapsible gate on front side upto 1st brace level from ground level to prevent unauthorized entry.  |      |                   |
|         | p). The above rates are inclusive of all inlet, out let, scour conection and valves. All the vertical connections are with D.I and all valves near inlet, out let and for scour of ELSRs shall be D.I valves.   |      |                   |
|         | q) <u>Vertical connections</u> : All the inlet, out let, over flow and scour pipes and fittings shall be of D.I. The minimum size of scour pipe is 200mm dia. All the valves shall be of DI of PN 20 and valve chambers shall be constructed with VRCC M20 grade with 150mm thick side walls,, 150mm thick top slab , 150mm thick base slab over base course of 100mm thick (1:4:8)prop . The rates of inlet, outlet, scour and over flow pipes , D.I valves of PN20 and Valve chambers are included in the litre rate of ELSRs |      |                   |

| Sl. No. | Description  | Unit | SoR for 2013-2014 |
|---------|--|------|-------------------|
| 1       | 2  | 3    | 4                 |
|         | <p>r)<b>Compound wall:</b> Construction of compound wall including M.S.Gate is included in the litre rate of ELSRs.</p> <p>Length of compound wall shall be minimum of 150mts. The compound wall shall be constructed including earth work excavation for the minimum width of 0.60mts and depth of 0.60mts for wall portion and for column footings of 0.75x0.75 mts x 1.50mts size. VRCC footings 0.75*0.75*0.30mts in VRCC M20 grade shall be constructed over a C.C (1:4:8)prop bed of 150mm thick. The columns shall be of 230*230 mm size with VRCC M20 grade at 3.60m c/c spacing having depth of 0.75mts below ground level and height of 2.40mts, plinth beam of size 230X230 mm shall be constructed in VRCC M20 grade at basement level. 450*450mm size columns in M20 grade shall be constructed for gate.</p> |      |                   |
|         | <p>The size of CRS masonry in C.M(1:6)prop below ground level shall be of 0.45X0.45mts and size of basement above G.L is 0.45X0.30mts and size of brick work above plinth beam is 230mm with 2nd class bricks in CM(1:6)Prop upto 1.80mts . Plastering shall be done with 16mm thick in two coats i.e., base coat 12mm thick in CM(1:6)prop and 4mm thick 2nd coat CM(1:4) prop on both sides of brick work and CRS masonry upto and including 150mm below ground level. Plain CC M20 grade 75mm thick coping shall be provided over top of compound wall to prevent entry of rain water .</p>   |      |                   |
|         | <p>Over the compound wall, fencing shall be provided upto 0.60mts height with barbed wire fencing. Snowcem paint in two coats shall be provided for both sides of wall. The M.S ornamental gate as per the approved drawings shall be provided with minimum of 3.60mts width and 2.40mts height with enamel paint. Yard lighting shall be arranged on four corners of compound wall. If the length of the wall is increased/decreased</p>  |      |                   |
|         | <p>Note:-For every 10.0mts increase/decrease in length of compound wall the increase/decrease in litre rates in 500KL to 2500KL capacity ELSRs shall be as follows.:</p> <p>500 KL : 0.86%</p> <p>1000 KL : 0.47%</p> <p>1500 KL : 0.34%</p> <p>2000 KL : 0.26%</p> <p>2500 KL : 0.22 %</p>  |      |                   |



| Sl. No. | Description   | Unit      | SoR for 2013-2014 |
|---------|---|-----------|-------------------|
| 1       | 2   | 3         | 4                 |
|         | s) <u>watchmen quarter</u> shall be constructed for a minimum plinth area of 40 sqm with the following specification. Construction of RCC framed structure with RCC grade not less than M20 design mix at the places specified by the department at the time of execution with verandah, hall, bed room, kitchen and bath & W/C with floor area of 40.00sqmts excluding balconies and staircases.   |           |                   |
|         | MS hollow door frame with cold rolled processed steel sheet 1.25mm thick bright CRCA conforming to IS 4351/76, Flush door shutters with solid bond wood bond board doors shall be provided. N.C.L. Windows centre fixed both sides openable shutter window 1.35 X 1.35mts outer frame section 48 x50mm shutter frame section with a size of 48 X20 mm mullion section of size 48 X 50mm fixed beading section of 12 X 12 mm shall be provided. Flooring with polished Kadapa stone shall be provided. Walls should be provided with snowcem paint in two coats over primary coat. Electrical and water supply arrangement shall be provided as directed by dept officer. Syntex tank with necessary out let and inlet connection, pipes shall be provided. septic tank for 5 users shall be provided. |           |                   |
| 45      | Rates for OHSRs/ELSRs including fixtures with a staging of 10 m without Seismic analysis.   |           |                   |
| a       | Upto 10,000 Litres capacity   | Per litre | 50.07             |
| b       | 15,000 Litres capacity  | Per litre | 34.43             |
| c       | 20,000 Litres capacity  | Per litre | 33.83             |
| d       | 40,000 Litres capacity  | Per litre | 29.95             |
| e       | 60,000 Litres capacity  | Per litre | 22.72             |
| f       | 1,00,000 Litres capacity  | Per litre | 20.98             |
| g       | 2,00,000 Litres capacity  | Per litre | 18.36             |
| h       | 3,00,000 Litres capacity  | Per litre | 17.23             |
| i       | 4,00,000 Litres capacity  | Per litre | 15.20             |
| j       | 4,50,000 Litres capacity  | Per litre | 13.17             |
|         | NOTE: -1) For intermediate ranges proportional rates may be adopted. All VRCC shall be in M30 grade design mix.   |           |                   |
|         | 2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.4,100/- per tonne for cement and Rs.43,000/- per tonne for steel.   |           |                   |
|         | 3) For every metre of staging less than 10 m, the rate shall be reduced by Rs.0.05 paise per litre per every metre of difference in staging   |           |                   |

| Sl. No. | Description  | Unit | SoR for 2013-2014 |
|---------|--|------|-------------------|
| 1       | 2  | 3    | 4                 |
|         | 4) For every metre of staging above 10 m , the rate shall be increase by Rs.0.10 paise per litre per every metre of additional in staging  |      |                   |
|         | 5) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by<br>Basic Rate x (Rc-4100) x 0.00007<br>Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate  |      |                   |
|         | 6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by<br>Basic Rate x (RS-43000) x 0.00002<br>Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.   |      |                   |
|         | 7) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.   |      |                   |
|         | 8) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of wheather 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. |      |                   |
|         | 9) The above rates are applicable for wind pressures upto 350 kg / sq m .For decrease in wind presure 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.   |      |                   |
|         | 10) For Tribal/Agency/ Rural area, the above rates shall be increased by 10%   |      |                   |
|         | 11) If the ELSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the design & difference to be paid extra.   |      |                   |
|         | 12) If the ELSR is to be designed for seismic forces a) The above rates are applied upto Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 33.33 % .   |      |                   |
|         | 13) Fixtures include :   |      |                   |
|         | a) RCC or Aluminium ladder inside 0.60 m wide.   |      |                   |
|         | b) spiral staircase on the outside shall be provided upto 200KL. Above 200KL capacity dog legged staircase shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing upto 1.0 height.  |      |                   |
|         | c) Lightning arrestor, including conductor and earthing etc.   |      |                   |
|         | d) RCC ventilators with copper or stainless steel fly proof mesh.  |      |                   |

| Sl. No. | Description  | Unit      | SoR for 2013-2014 |
|---------|--|-----------|-------------------|
| 1       | 2  | 3         | 4                 |
|         | e) D.I Manholes frame and cover 0.60x0.60 m as per IS specifications (light duty) - 2 Nos.   |           |                   |
|         | f) Water level indicator of good quality with ebonite/ copper float approved pattern - 1 No.   |           |                   |
|         | g) The ladder shall be with M.S ladder and Verticals with HDPE of 10kg/Sqcm shall be provided for single column OHSRs only.  |           |                   |
|         | h) Minimum staging for all ELSR/OHSR shall be 10.0mts.   |           |                   |
|         | i) The increase in staging shall be at 1.0mt interval.   |           |                   |
|         | j)The railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20mts.   |           |                   |
|         | k). The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with M.S collapsible gate upto 1st brace level from ground level to prevent unauthorized entry.                   |           |                   |
|         | l). D.I swan neck ventilators shall be provided in top dome and slab.  |           |                   |
|         | m). The above rates are exclusive of all inlet, out let connection and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves.  |           |                   |
| 45      | Construction of Rapid Gravity Filtration Plant including civil, mechanical and electrical fully automation including trial running etc., complete.   |           |                   |
|         | 1) 2.0 Mld   | Per litre | 3.09              |
|         | 2) 5.0 Mld   | Per litre | 2.82              |
|         | 3) 10.0 Mld  | Per litre | 2.55              |
|         | 4) 20.0 Mld  | Per litre | 2.29              |
|         | 5) 30.00 mld and above   | Per litre | 2.01              |
|         | NOTE :-  |           |                   |
|         | a) For intermediate ranges proportional rates may be adopted   |           |                   |
|         | b) The above rates are applicable with cement @ rate of Rs.4,100/-MT and steel of Rs. 43,000/MT.   |           |                   |
|         | c)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by<br>Basic Rate x (Rc-4100) x 0.00007<br>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<br>Basic Rate x (RS-43000) x 0.00002<br>Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate. |           |                   |

| Sl. No. | Description  | Unit | SoR for 2013-2014 |
|---------|--|------|-------------------|
| 1       | 2  | 3    | 4                 |
|         | e) For Rural areas an extra allowance of 10% shall be given on basic rate  |      |                   |
|         | The components of the filtration plant are as follows:   |      |                   |
|         | A) Civil Works<br>(All works of VRCC Shall be in M30 design mix)   |      |                   |
|         | 1). Stilling Chamber and Aeration cascade  |      |                   |
|         | 2). Ventury flume channel with measuring device  |      |                   |
|         | 3) Flash Mixer chamber   |      |                   |
|         | 4) .Clarifluculator / tube settler & flocculation tanks  |      |                   |
|         | 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 has to be provided.                       |      |                   |
|         | 6). Wash water tank of suitable capacity   |      |                   |
|         | 7) .All the doors and windows are of aluminimum 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 D.I. make. The size of sludge disposal pipe shall be minimum of 450 mm dia with C.I pipe. |      |                   |
|         | 9) The bottom level of the clear water control chamber must be above G.L so as to dispose the leakage water by gravity.  |      |                   |
|         | 10) . Clarifluculator bridge including sludge srcapping arrangement shall be with stainless steel of Grade 304 for chemical resistance and durability  |      |                   |
|         | 11) Railing for all the components shall be provided with Stainless steel of grade 304 for a height of 0.90mts.  |      |                   |
|         | 12).Path ways in filter beds : Middle pathway: Minimum of 1.50mts, Side pathway: Minimum of 1.20mts.   |      |                   |
|         | 13).Flooring in filter house shall be with 12mm thick Non-skid tiles.  |      |                   |
|         | 14).Back wash water tank shall be constrctued at a minimum height of 1.50mts above roof slab.  |      |                   |
|         | 15).Filtration plant building ground floor level shall be minimum of 1.20mts above height from the neary by road crust level.  |      |                   |
|         | 16). The minimum size of entrance hall shall be 12'x13' , Lab size shall be of 10'x15', Office room size shall be of 10'x15'.  |      |                   |
|         | 17). The water from the treatment plant shall be tested for quantity and quality simultaneously.   |      |                   |
|         | 18). Sufficient head room shall be provided at alum tank.  |      |                   |

| Sl. No. | Description  | Unit | SoR for 2013-2014 |
|---------|--|------|-------------------|
| 1       | 2  | 3    | 4                 |
|         | 19). S.S railing of grade 304 shall be provided for staircase.   |      |                   |
|         | 20). Testing of blowers as per I.S norms.  |      |                   |
|         | 21).All cables shall be with copper, Cable drains shall be covered with chequed plate.   |      |                   |
|         | 22).HDPE/MDPE pipes shall be provided for water drainage .   |      |                   |
|         | 23).Alum storage capacity shall be for minimum period of 90 days.  |      |                   |
|         | 24). Digital water flow meters, pressure gauges shall be provided of standard make   |      |                   |
|         | 25).Chemical house and chlorine storage system shall be constructed out side of plant  |      |                   |
|         | 26).Pneumatic tyre wheel shall be provided for the bridge clariflocculator.  |      |                   |
|         | 27). Min LUX levels inside the treatment plant shall be maintained.  |      |                   |
|         | 28). The length of sludge disposal drain shall be minimum of 30mts.  |      |                   |
|         | 29).Yard lighting shall be provided as per norms.  |      |                   |
|         | 30).Chlorimeter vaccum type: Metito/Toshocow-Jesco/ Industrial devices.  |      |                   |
|         | <b>B Mechanical Equipment</b>  |      |                   |
|         | 1)Alum dosing equipment  |      |                   |
|         | 2)Flash mixer equipment.   |      |                   |
|         | 3)Sludge disposal fittings by gravity  |      |                   |
|         | 4)Filtration plant euqipment instrumentation and piping.   |      |                   |
|         | 5)Clarifloccualation equipment (with stainless steel blades) with rotating bridge arrangeemnt etc.,                              |      |                   |
|         | 6)Wash water tank fittings and pumpsets 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,Vaccum feed Gas Chlorination has to provided.    |      |                   |
|         | 9)Spares & Tools for 2 years   |      |                   |
|         | 10)Gaseous Chlorination with cylinders has to provided with protection measures.   |      |                   |
|         | <b>C) Electrical Equipment</b>   |      |                   |
|         | 1) Necessary power supply wiring to motors and switches bus bar connections as per IE Rules                                      |      |                   |
|         | 2) Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc. |      |                   |

| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>SoR for 2013-2014</b> |
|----------------|--|-------------|--------------------------|
| <b>1</b>       | <b>2</b>   | <b>3</b>    | <b>4</b>                 |
|                | <b>3) Erecting mechanical and electrical equipment, trial run for 90 days 23.50 hours per day ttesting the treated water for efficient stardards and maintenance of records and imparting training to staff.</b>   |             |                          |
|                | <b>4) Supply of 6 - Sets of completion plans and maintenance manual and brochures.</b>   |             |                          |
|                | <b>5) Provision towards soil investigations.</b>   |             |                          |
|                | <b>D ) Automation for flow measurements<br/>1)Automated Lab testing equipment of internationally reputed make and consumables for one year. For filtration plants of capacity 10 MLD and more automated online testing equipment shall be installed.</b> |             |                          |
|                | <b>2) Automation for flow of Conductivity, Turbidity, Ph value, Residual Chlorine with recording &amp; Storage facility (Computer based) &amp; Alarm by SMS or other methods.</b>  |             |                          |
|                | <b>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).</b>   |             |                          |
|                | <b>1) Alam tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)</b>   |             |                          |
|                | <b>2) Mechanical equipment for alam mixing and in flocculation tank must be corrosive resistant (due to Alam)</b>  |             |                          |
|                |  |             |                          |
|                |  |             |                          |
|                |  |             |                          |
|                |  |             |                          |

## 1. SoRATES 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  | SoR For 2013-14 |              |              |
|          |  |       | NP - 2 Class    | NP - 3 Class | NP - 4 Class |
|          | 80 mm dia  | Metre | 129             |              |              |
|          | 100 mm dia   | Metre | 149             |              |              |
|          | 150 mm dia   | Metre | 176             |              |              |
|          | 200 mm dia   | Metre | 209             |              |              |
|          | 225 mm dia   | Metre | 227             |              |              |
|          | 250 mm dia   | Metre | 243             |              |              |
|          | 300 mm dia   | Metre | 348             | 791          | 812          |
|          | 350 mm dia   | Metre | 433             | 977          | 996          |
|          | 400 mm dia   | Metre | 499             | 1079         | 1103         |
|          | 450 mm dia   | Metre | 611             | 1235         | 1247         |
|          | 500 mm dia   | Metre | 671             | 1343         | 1544         |
|          | 600 mm dia   | Metre | 993             | 2019         | 2397         |
|          | 700 mm dia   | Metre | 1272            | 2512         | 3216         |
|          | 800 mm dia   | Metre | 1566            | 3318         | 4203         |
|          | 900 mm dia   | Metre | 1972            | 4171         | 5236         |
|          | 1000 mm dia  | Metre | 2397            | 5178         | 7157         |
|          | 1100 mm dia  | Metre | 2843            | 6112         | 8299         |
|          | 1200 mm dia  | Metre | 3387            | 7201         | 9705         |
|          | 1400 mm dia  | Metre | 4614            | 9306         | 13433        |
|          | 1600 mm dia  | Metre | 5348            | 12086        | 16177        |
|          | 1800 mm dia  | Metre | 7010            | 16031        | 21704        |

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.4,100/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,500/- 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 =  $(S2 - S1) / 1000 \times Ws$ .

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

S1 = Rs. 42,500/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,100/- 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. SoRATES FOR R.C.C. COLLARS

| Sl.No.   | Description  |             |                        |                     |                     |
|----------|--|-------------|------------------------|---------------------|---------------------|
| <b>1</b> | <b>2</b>   |             |                        |                     |                     |
| <b>1</b> | <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> |             |                        |                     |                     |
|          | <b>Size</b>  | <b>Unit</b> | <b>SoR For 2013-14</b> |                     |                     |
|          |  |             | <b>NP - 2 Class</b>    | <b>NP - 3 Class</b> | <b>NP - 4 Class</b> |
|          | 80 mm dia  | Each        | <b>39</b>              |                     |                     |
|          | 100 mm dia   | Each        | <b>40</b>              |                     |                     |
|          | 150 mm dia   | Each        | <b>42</b>              |                     |                     |
|          | 200 mm dia   | Each        | <b>56</b>              |                     |                     |
|          | 225 mm dia   | Each        | <b>60</b>              |                     |                     |
|          | 250 mm dia   | Each        | <b>66</b>              |                     |                     |
|          | 300 mm dia   | Each        | <b>87</b>              | <b>124</b>          | <b>124</b>          |
|          | 350 mm dia   | Each        | <b>107</b>             | <b>153</b>          | <b>153</b>          |
|          | 400 mm dia   | Each        | <b>118</b>             | <b>175</b>          | <b>175</b>          |
|          | 450 mm dia   | Each        | <b>185</b>             | <b>233</b>          | <b>233</b>          |
|          | 500 mm dia   | Each        | <b>211</b>             | <b>277</b>          | <b>277</b>          |
|          | 600 mm dia   | Each        | <b>285</b>             | <b>364</b>          | <b>364</b>          |
|          | 700 mm dia   | Each        | <b>371</b>             | <b>491</b>          | <b>491</b>          |
|          | 800 mm dia   | Each        | <b>524</b>             | <b>623</b>          | <b>623</b>          |
|          | 900 mm dia   | Each        | <b>626</b>             | <b>726</b>          | <b>726</b>          |
|          | 1000 mm dia  | Each        | <b>731</b>             | <b>908</b>          | <b>908</b>          |
|          | 1100 mm dia  | Each        | <b>896</b>             | <b>1150</b>         | <b>1150</b>         |
|          | 1200 mm dia  | Each        | <b>1089</b>            | <b>1440</b>         | <b>1440</b>         |
|          | 1400 mm dia  | Each        | <b>1404</b>            | <b>1824</b>         | <b>1824</b>         |
|          | 1600 mm dia  | Each        | <b>1792</b>            | <b>2339</b>         | <b>2339</b>         |
|          | 1800 mm dia  | Each        | <b>1861</b>            | <b>3015</b>         | <b>3015</b>         |

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.4,100/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,500/- 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. 42,500/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,100/-, 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. SoRATES 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> |       |                 |              |              |
|        | Size   | Unit  | SoR For 2013-14 |              |              |
|        |  |       | NP - 2 Class    | NP - 3 Class | NP - 4 Class |
|        | 80 mm dia  | Metre | 159             |              |              |
|        | 100 mm dia   | Metre | 180             |              |              |
|        | 150 mm dia   | Metre | 210             |              |              |
|        | 200 mm dia   | Metre | 255             |              |              |
|        | 225 mm dia   | Metre | 278             |              |              |
|        | 250 mm dia   | Metre | 298             |              |              |
|        | 300 mm dia   | Metre | 418             | 1005         | 1070         |
|        | 350 mm dia   | Metre | 537             | 1283         | 1305         |
|        | 400 mm dia   | Metre | 593             | 1422         | 1447         |
|        | 450 mm dia   | Metre | 738             | 1570         | 1582         |
|        | 500 mm dia   | Metre | 851             | 1796         | 1952         |
|        | 600 mm dia   | Metre | 1197            | 2519         | 2594         |
|        | 700 mm dia   | Metre | 1552            | 3217         | 3376         |
|        | 800 mm dia   | Metre | 1992            | 4258         | 4411         |
|        | 900 mm dia   | Metre | 2517            | 5354         | 5545         |
|        | 1000 mm dia  | Metre | 3056            | 6054         | 6617         |
|        | 1100 mm dia  | Metre | 3585            | 7148         | 7647         |
|        | 1200 mm dia  | Metre | 4065            | 8436         | 8951         |
|        | 1400 mm dia  | Metre | 5783            | 11173        | 12697        |
|        | 1600 mm dia  | Metre | 7154            | 14513        | 15307        |
|        | 1800 mm dia  | Metre | 8048            | 19245        | 20544        |

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.4, 100/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42, 500/- 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 =  $(S2 - S1) / 1000 \times Ws$ .

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

S1 = Rs. 42,500/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,100/- , 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. SoRATES 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> |       |                 |             |             |
|          | Size  | Unit  | SoR For 2013-14 |             |             |
|          |   |       | P1 - Class      | P2 - Class  | P3 - Class  |
|          | 80 mm dia   | Metre | <b>208</b>      | <b>234</b>  | <b>266</b>  |
|          | 100 mm dia  | Metre | <b>234</b>      | <b>280</b>  | <b>324</b>  |
|          | 150 mm dia  | Metre | <b>323</b>      | <b>418</b>  | <b>516</b>  |
|          | 200 mm dia  | Metre | <b>375</b>      | <b>539</b>  | <b>712</b>  |
|          | 225 mm dia  | Metre | <b>422</b>      | <b>613</b>  | <b>794</b>  |
|          | 250 mm dia  | Metre | <b>463</b>      | <b>656</b>  | <b>836</b>  |
|          | 300 mm dia  | Metre | <b>625</b>      | <b>946</b>  | <b>1182</b> |
|          | 350 mm dia  | Metre | <b>778</b>      | <b>1313</b> | <b>1702</b> |
|          | 400 mm dia  | Metre | <b>924</b>      | <b>1737</b> | <b>2245</b> |
|          | 450 mm dia  | Metre | <b>991</b>      | <b>2059</b> | <b>2770</b> |
|          | 500 mm dia  | Metre | <b>1314</b>     | <b>2244</b> | <b>3155</b> |
|          | 600 mm dia  | Metre | <b>1799</b>     | <b>3343</b> | <b>4391</b> |
|          | 700 mm dia  | Metre | <b>2395</b>     | <b>4418</b> | <b>5589</b> |
|          | 800 mm dia  | Metre | <b>3000</b>     | <b>5272</b> | <b>6774</b> |
|          | 900 mm dia  | Metre | <b>3623</b>     | <b>6216</b> |             |
|          | 1000 mm dia   | Metre | <b>4565</b>     | <b>7151</b> |             |
|          | 1100 mm dia   | Metre | <b>5477</b>     |             |             |
|          | 1200 mm dia   | Metre | <b>6428</b>     |             |             |

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.4,100/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.42,500/- 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 =  $(S2 - S1) / 1000 \times Ws$ .

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

S1 = Rs. 42,500/-

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

C1 = Rs. 4,100/-, 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. SoRATES FOR RUBBER RINGS TO SUIT R.C.C. S/S PIPES**

| Sl. No. | Description   |             |                        |                     |                     |
|---------|---|-------------|------------------------|---------------------|---------------------|
| 1       | 2   |             |                        |                     |                     |
| 1       | <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>SoR For 2013-14</b> |                     |                     |
|         |   |             | <b>NP - 2 Class</b>    | <b>NP - 3 Class</b> | <b>NP - 4 Class</b> |
|         | 80 mm dia   | Each        | 24                     |                     |                     |
|         | 100 mm dia  | Each        | 29                     |                     |                     |
|         | 150 mm dia  | Each        | 52                     |                     |                     |
|         | 200 mm dia  | Each        | 61                     |                     |                     |
|         | 225 mm dia  | Each        | 67                     |                     |                     |
|         | 250 mm dia  | Each        | 75                     |                     |                     |
|         | 300 mm dia  | Each        | 92                     | 118                 | 118                 |
|         | 350 mm dia  | Each        | 106                    | 141                 | 141                 |
|         | 400 mm dia  | Each        | 117                    | 160                 | 160                 |
|         | 450 mm dia  | Each        | 133                    | 182                 | 182                 |
|         | 500 mm dia  | Each        | 174                    | 208                 | 208                 |
|         | 600 mm dia  | Each        | 228                    | 303                 | 303                 |
|         | 700 mm dia  | Each        | 310                    | 362                 | 362                 |
|         | 800 mm dia  | Each        | 394                    | 439                 | 439                 |
|         | 900 mm dia  | Each        | 493                    | 594                 | 594                 |
|         | 1000 mm dia   | Each        | 576                    | 716                 | 716                 |
|         | 1100 mm dia   | Each        | 693                    | 917                 | 917                 |
|         | 1200 mm dia   | Each        | 1109                   | 1153                | 1153                |
|         | 1400 mm dia   | Each        | 1220                   | 1268                | 1268                |
|         | 1600 mm dia   | Each        | 1519                   | 1548                | 1548                |
|         | 1800 mm dia   | Each        | 1892                   | 1977                | 1977                |
| 2       | <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        | 24                     | 24                  | 24                  |
|         | 100 mm dia  | Each        | 29                     | 31                  | 31                  |
|         | 150 mm dia  | Each        | 52                     | 52                  | 52                  |
|         | 200 mm dia  | Each        | 61                     | 61                  | 61                  |
|         | 225 mm dia  | Each        | 67                     | 68                  | 70                  |
|         | 250 mm dia  | Each        | 75                     | 77                  | 79                  |
|         | 300 mm dia  | Each        | 92                     | 97                  | 101                 |
|         | 350 mm dia  | Each        | 106                    | 122                 | 133                 |
|         | 400 mm dia  | Each        | 117                    | 160                 | 164                 |

|  | <b>Size</b> |      | <b>P1 - Class</b> | <b>P2 - Class</b> | <b>P3 – Class</b> |
|--|-------------|------|-------------------|-------------------|-------------------|
|  | 450 mm dia  | Each | <b>133</b>        | <b>184</b>        | <b>188</b>        |
|  | 500 mm dia  | Each | <b>174</b>        | <b>208</b>        | <b>217</b>        |
|  | 600 mm dia  | Each | <b>228</b>        | <b>257</b>        | <b>262</b>        |
|  | 700 mm dia  | Each | <b>310</b>        | <b>340</b>        | <b>362</b>        |
|  | 800 mm dia  | Each | <b>394</b>        | <b>435</b>        | <b>435</b>        |
|  | 900 mm dia  | Each | <b>493</b>        | <b>549</b>        |                   |
|  | 1000 mm dia | Each | <b>576</b>        | <b>663</b>        |                   |
|  | 1100 mm dia | Each | <b>693</b>        |                   |                   |
|  | 1200 mm dia | Each | <b>1109</b>       |                   |                   |

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

**6. SoRATES FOR CONVEYANCE OF R.C.C. PLAIN ENDED PIPES**

| <b>Sl.No.</b> | <b>Description</b>   | <b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b> | <b>Rate for every additional 1 KM lead or part thereof.</b> | <b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b> | <b>Rate for every additional 1 KM lead or part thereof.</b> |
|---------------|--|---|---|---|---|
| <b>1</b>      | <b>2</b>   | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>  |
| <b>1</b>      | <b>CONVEYANCE OF R.C.C. PLAIN ENDED PIPES ON ALL WEATHER ROADS INCLUDING LOADING, UNLOADING AND STACKING (per Metre) SoR For 2013-14</b> |   |   |   |   |
|               |  | <b>NP - 2 Class</b>   |   | <b>NP - 3 Class &amp; NP - 4 Class</b>                                |   |
|               | 80 mm dia  | <b>3.00</b>   | <b>0.12</b>   |   |   |
|               | 100 mm dia   | <b>4.00</b>   | <b>0.12</b>   |   |   |
|               | 150 mm dia   | <b>5.00</b>   | <b>0.24</b>   |   |   |
|               | 200 mm dia   | <b>7.00</b>   | <b>0.24</b>   |   |   |
|               | 225 mm dia   | <b>8.00</b>   | <b>0.36</b>   |   |   |
|               | 250 mm dia   | <b>9.00</b>   | <b>0.36</b>   |   |   |
|               | 300 mm dia   | <b>13.00</b>  | <b>0.48</b>   | <b>35.00</b>  | <b>0.97</b>   |
|               | 350 mm dia   | <b>18.00</b>  | <b>1.09</b>   | <b>38.00</b>  | <b>1.09</b>   |
|               | 400 mm dia   | <b>20.00</b>  | <b>1.21</b>   | <b>45.00</b>  | <b>1.45</b>   |
|               | 450 mm dia   | <b>26.00</b>  | <b>1.45</b>   | <b>49.00</b>  | <b>1.69</b>   |
|               | 500 mm dia   | <b>28.00</b>  | <b>1.69</b>   | <b>54.00</b>  | <b>1.69</b>   |
|               | 600 mm dia   | <b>41.00</b>  | <b>2.66</b>   | <b>81.00</b>  | <b>3.75</b>   |
|               | 700 mm dia   | <b>52.00</b>  | <b>3.75</b>   | <b>90.00</b>  | <b>4.36</b>   |
|               | 800 mm dia   | <b>61.00</b>  | <b>3.75</b>   | <b>108.00</b>   | <b>4.36</b>   |
|               | 900 mm dia   | <b>70.00</b>  | <b>3.75</b>   | <b>142.00</b>   | <b>8.23</b>   |
|               | 1000 mm dia  | <b>104.00</b>   | <b>7.74</b>   | <b>171.00</b>   | <b>8.23</b>   |
|               | 1100 mm dia  | <b>114.00</b>   | <b>7.74</b>   | <b>185.00</b>   | <b>8.95</b>   |
|               | 1200 mm dia  | <b>129.00</b>   | <b>8.23</b>   | <b>207.00</b>   | <b>8.95</b>   |
|               | 1400 mm dia  | <b>155.00</b>   | <b>8.23</b>   | <b>282.00</b>   | <b>9.32</b>   |
|               | 1600 mm dia  | <b>180.00</b>   | <b>8.23</b>   | <b>338.00</b>   | <b>9.32</b>   |
|               | 1800 mm dia  | <b>207.00</b>   | <b>8.23</b>   | <b>451.00</b>   | <b>13.07</b>  |

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

| Sl.No. | Description   | Rate upto 5 Kms Lead including Loading, unloading & stacking | Rate for every additional 1 KM lead or part thereof. | Rate upto 5 Kms Lead including Loading, unloading and stacking | Rate for every additional 1 KM lead or part thereof. |
|--------|---|--|--|--|--|
| 1      | 2   | 3  | 4  | 5  | 6  |
| 1      | <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><br>SoR For 2013-14 |  |  |  |  |
|        | <b>Size</b>   | <b>NP - 2 &amp; P1 Class</b>                                 |  | <b>NP - 3 &amp; NP - 4 Class</b>                               |  |
|        | 80 mm dia   | 4.00   | 0.11   |  |  |
|        | 100 mm dia  | 4.00   | 0.22   |  |  |
|        | 150 mm dia  | 6.00   | 0.22   |  |  |
|        | 200 mm dia  | 8.00   | 0.44   |  |  |
|        | 225 mm dia  | 9.00   | 0.44   |  |  |
|        | 250 mm dia  | 10.00  | 0.99   |  |  |
|        | 300 mm dia  | 16.00  | 1.10   | 42.00  | 1.32   |
|        | 350 mm dia  | 19.00  | 1.21   | 45.00  | 1.54   |
|        | 400 mm dia  | 19.00  | 1.43   | 56.00  | 2.86   |
|        | 450 mm dia  | 27.00  | 1.54   | 62.00  | 2.86   |
|        | 500 mm dia  | 30.00  | 1.65   | 68.00  | 3.08   |
|        | 600 mm dia  | 39.00  | 2.86   | 92.00  | 4.40   |
|        | 700 mm dia  | 48.00  | 3.08   | 124.00   | 8.69   |
|        | 800 mm dia  | 66.00  | 4.73   | 146.00   | 8.69   |
|        | 900 mm dia  | 99.00  | 8.47   | 169.00   | 8.69   |
|        | 1000 mm dia   | 113.00   | 8.47   | 178.00   | 8.69   |
|        | 1100 mm dia   | 127.00   | 8.69   | 191.00   | 8.69   |
|        | 1200 mm dia   | 142.00   | 8.69   | 214.00   | 8.91   |
|        | 1400 mm dia   | 176.00   | 8.69   | 286.00   | 8.91   |
|        | 1600 mm dia   | 209.00   | 8.91   | 338.00   | 9.57   |
|        | 1800 mm dia   | 259.00   | 8.91   | 451.00   | 13.09  |
|        |   | <b>P2 - Class</b>  |  | <b>P3 - Class</b>  |  |
|        | 80 mm dia   | 4.00   | 0.11   | 4.00   | 0.11   |
|        | 100 mm dia  | 4.00   | 0.22   | 4.00   | 0.22   |
|        | 150 mm dia  | 6.00   | 0.22   | 6.00   | 0.22   |
|        | 200 mm dia  | 8.00   | 0.44   | 11.00  | 0.99   |
|        | 225 mm dia  | 11.00  | 0.99   | 13.00  | 1.10   |
|        | 250 mm dia  | 12.00  | 1.10   | 15.00  | 1.21   |
|        | 300 mm dia  | 23.00  | 1.32   | 26.00  | 1.43   |
|        | 350 mm dia  | 28.00  | 1.54   | 36.00  | 1.65   |
|        | 400 mm dia  | 34.00  | 1.65   | 48.00  | 2.86   |
|        | 450 mm dia  | 43.00  | 2.75   | 60.00  | 2.86   |
|        | 500 mm dia  | 48.00  | 2.86   | 73.00  | 4.29   |
|        | 600 mm dia  | 64.00  | 2.86   | 105.00   | 5.50   |
|        | 700 mm dia  | 95.00  | 5.83   | 154.00   | 8.69   |
|        | 800 mm dia  | 126.00   | 8.25   | 196.00   | 8.69   |
|        | 900 mm dia  | 154.00   | 8.69   |  |  |
|        | 1000 mm dia   | 189.00   | 8.91   |  |  |

### 8. SoRATES 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>SoR For 2013-14</b> |                   |                   |  |
|          |   |             | <b>Class - 15</b>      | <b>Class - 20</b> | <b>Class - 25</b> |  |
|          | 80 mm dia   | Rate/Metre  | <b>168</b>             | <b>184</b>        | <b>230</b>        |  |
|          | 100 mm dia  | Rate/Metre  | <b>222</b>             | <b>282</b>        | <b>347</b>        |  |
|          | 125 mm dia  | Rate/Metre  | <b>290</b>             | <b>361</b>        | <b>453</b>        |  |
|          | 150 mm dia  | Rate/Metre  | <b>408</b>             | <b>508</b>        | <b>639</b>        |  |
|          | 200 mm dia  | Rate/Metre  | <b>677</b>             | <b>865</b>        | <b>1098</b>       |  |
|          | 250 mm dia  | Rate/Metre  | <b>857</b>             | <b>1111</b>       | <b>1391</b>       |  |
|          | 300 mm dia  | Rate/Metre  | <b>1200</b>            | <b>1562</b>       | <b>1995</b>       |  |
|          | 350 mm dia  | Rate/Metre  | <b>1465</b>            | <b>1903</b>       | <b>2398</b>       |  |
|          | 400 mm dia  | Rate/Metre  | <b>1904</b>            | <b>2487</b>       | <b>3088</b>       |  |
|          | 450 mm dia  | Rate/Metre  | <b>2256</b>            | <b>2994</b>       | <b>3749</b>       |  |
|          | 500 mm dia  | Rate/Metre  | <b>2788</b>            | <b>3662</b>       | <b>4598</b>       |  |
|          | 600 mm dia  | Rate/Metre  | <b>3963</b>            | <b>5173</b>       | <b>6593</b>       |  |
|          | 700 mm dia  | Rate/Metre  | <b>5249</b>            | <b>7120</b>       | <b>9207</b>       |  |
|          | 750 mm dia  | Rate/Metre  | <b>5982</b>            | <b>8219</b>       | <b>10535</b>      |  |
|          | 800 mm dia  | Rate/Metre  | <b>6844</b>            | <b>9312</b>       | <b>11951</b>      |  |
|          | 850 mm dia  | Rate/Metre  | <b>7677</b>            | <b>10476</b>      | <b>13458</b>      |  |
|          | 900 mm dia  | Rate/Metre  | <b>8559</b>            | <b>11704</b>      | <b>15053</b>      |  |
|          | 1000 mm dia   | Rate/Metre  | <b>10566</b>           | <b>14368</b>      | <b>18512</b>      |  |
| <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 upto 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  | <b>32.00</b>           | <b>32.00</b>      | <b>32.00</b>      |  |
|          | 100 mm dia  | Rate/Metre  | <b>47.00</b>           | <b>47.00</b>      | <b>47.00</b>      |  |
|          | 125 mm dia  | Rate/Metre  | <b>52.00</b>           | <b>52.00</b>      | <b>52.00</b>      |  |
|          | 150 mm dia  | Rate/Metre  | <b>62.00</b>           | <b>62.00</b>      | <b>62.00</b>      |  |
|          | 200 mm dia  | Rate/Metre  | <b>81.00</b>           | <b>81.00</b>      | <b>81.00</b>      |  |
|          | 250 mm dia  | Rate/Metre  | <b>97.00</b>           | <b>97.00</b>      | <b>97.00</b>      |  |
|          | 300 mm dia  | Rate/Metre  | <b>120.00</b>          | <b>120.00</b>     | <b>120.00</b>     |  |
|          | 350 mm dia  | Rate/Metre  | <b>204.00</b>          | <b>204.00</b>     | <b>204.00</b>     |  |
|          | 400 mm dia  | Rate/Metre  | <b>305.00</b>          | <b>305.00</b>     | <b>305.00</b>     |  |
|          | 450 mm dia  | Rate/Metre  | <b>372.00</b>          | <b>372.00</b>     | <b>372.00</b>     |  |
|          | 500 mm dia  | Rate/Metre  | <b>473.00</b>          | <b>473.00</b>     | <b>473.00</b>     |  |
|          | 600 mm dia  | Rate/Metre  | <b>508.00</b>          | <b>508.00</b>     | <b>508.00</b>     |  |
|          | 700 mm dia  | Rate/Metre  | <b>567.00</b>          | <b>567.00</b>     | <b>567.00</b>     |  |
|          | 750 mm dia  | Rate/Metre  | <b>631.00</b>          | <b>631.00</b>     | <b>631.00</b>     |  |
|          | 800 mm dia  | Rate/Metre  | <b>664.00</b>          | <b>664.00</b>     | <b>664.00</b>     |  |
|          | 850 mm dia  | Rate/Metre  | <b>708.00</b>          | <b>708.00</b>     | <b>708.00</b>     |  |

|              |   |            |  |               |   |               |
|--------------|---|------------|--|---------------|---|---------------|
|              | 900 mm dia  | Rate/Metre |  | <b>773.00</b> | <b>773.00</b>   | <b>773.00</b> |
|              | 1000 mm dia   | Rate/Metre |  | <b>795.00</b> | <b>795.00</b>   | <b>795.00</b> |
|              | <p>1. The above rates of AC Pipes are based on the Cement cost of RS 4,100/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 68,198/- per M.T basic price (Ex- India Port) (Excluding duties, taxes and transportation etc.)</p> <p>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 Kg's/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 Kg's/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 "Mazza" 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. SoRATES 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>SoR For 2013-14</b> |                   |                   |  |
|          |  |             | <b>Class - 15</b>      | <b>Class - 20</b> | <b>Class - 25</b> |  |
|          | 80 mm dia  | Rate/Each   | <b>82</b>              | <b>87</b>         | <b>101</b>        |  |
|          | 100 mm dia   | Rate/Each   | <b>106</b>             | <b>113</b>        | <b>137</b>        |  |
|          | 125 mm dia   | Rate/Each   | <b>133</b>             | <b>146</b>        | <b>176</b>        |  |
|          | 150 mm dia   | Rate/Each   | <b>154</b>             | <b>193</b>        | <b>239</b>        |  |
|          | 200 mm dia   | Rate/Each   | <b>284</b>             | <b>310</b>        | <b>395</b>        |  |
|          | 250 mm dia   | Rate/Each   | <b>332</b>             | <b>418</b>        | <b>533</b>        |  |
|          | 300 mm dia   | Rate/Each   | <b>433</b>             | <b>561</b>        | <b>722</b>        |  |
|          | 350 mm dia   | Rate/Each   | <b>562</b>             | <b>726</b>        | <b>927</b>        |  |
|          | 400 mm dia   | Rate/Each   | <b>865</b>             | <b>1131</b>       | <b>1449</b>       |  |
|          | 450 mm dia   | Rate/Each   | <b>1037</b>            | <b>1367</b>       | <b>1756</b>       |  |
|          | 500 mm dia   | Rate/Each   | <b>1236</b>            | <b>1653</b>       | <b>2112</b>       |  |
|          | 600 mm dia   | Rate/Each   | <b>1513</b>            | <b>1897</b>       | <b>2427</b>       |  |
|          | <b>700 mm dia</b>  | Rate/Each   | <b>2002</b>            | <b>2695</b>       | <b>3505</b>       |  |
|          | <b>750 mm dia</b>  | Rate/Each   | <b>2259</b>            | <b>3088</b>       | <b>3985</b>       |  |
|          | <b>800 mm dia</b>  | Rate/Each   | <b>2562</b>            | <b>3474</b>       | <b>4496</b>       |  |
|          | <b>850 mm dia</b>  | Rate/Each   | <b>2854</b>            | <b>3886</b>       | <b>5039</b>       |  |
|          | <b>900 mm dia</b>  | Rate/Each   | <b>3158</b>            | <b>4320</b>       | <b>5609</b>       |  |
|          | <b>1000 mm dia</b>   | Rate/Each   | <b>3855</b>            | <b>5253</b>       | <b>6846</b>       |  |

1. The above rates of AC Coupling are based on the Cement cost of RS 4,100/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 68,198/- 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 Kgs/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 Kgs/Each

$IF$  = Increase /Decrease in cost of fiber/kg

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

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

**10. SoRATES FOR RUBBER RINGS TO SUIT A.C. COUPLINGS**

| Sl. No. | Description   |             |                        |                   |                   |  |
|---------|---|-------------|------------------------|-------------------|-------------------|--|
| 1       | 2   |             |                        |                   |                   |  |
| 1       | <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>SoR For 2013-14</b> |                   |                   |  |
|         |   |             | <b>Class - 15</b>      | <b>Class - 20</b> | <b>Class - 25</b> |  |
|         | 80 mm dia   | Each Set    | <b>62.00</b>           | <b>62.00</b>      | <b>62.00</b>      |  |
|         | 100 mm dia  | Each Set    | <b>75.00</b>           | <b>75.00</b>      | <b>75.00</b>      |  |
|         | 125 mm dia  | Each Set    | <b>98.00</b>           | <b>98.00</b>      | <b>98.00</b>      |  |
|         | 150 mm dia  | Each Set    | <b>124.00</b>          | <b>124.00</b>     | <b>124.00</b>     |  |
|         | 200 mm dia  | Each Set    | <b>129.00</b>          | <b>129.00</b>     | <b>129.00</b>     |  |
|         | 250 mm dia  | Each Set    | <b>149.00</b>          | <b>149.00</b>     | <b>149.00</b>     |  |
|         | 300 mm dia  | Each Set    | <b>149.00</b>          | <b>149.00</b>     | <b>149.00</b>     |  |
|         | 350 mm dia  | Each Set    | <b>169.00</b>          | <b>169.00</b>     | <b>169.00</b>     |  |
|         | 400 mm dia  | Each Set    | <b>207.00</b>          | <b>207.00</b>     | <b>207.00</b>     |  |
|         | 450 mm dia  | Each Set    | <b>243.00</b>          | <b>243.00</b>     | <b>243.00</b>     |  |
|         | 500 mm dia  | Each Set    | <b>281.00</b>          | <b>281.00</b>     | <b>281.00</b>     |  |
|         | 600 mm dia  | Each Set    | <b>318.00</b>          | <b>318.00</b>     | <b>318.00</b>     |  |
|         | 700 mm dia  | Each Set    | <b>661.00</b>          | <b>661.00</b>     | <b>661.00</b>     |  |
|         | 750 mm dia  | Each Set    | <b>686.00</b>          | <b>686.00</b>     | <b>686.00</b>     |  |
|         | 800 mm dia  | Each Set    | <b>737.00</b>          | <b>737.00</b>     | <b>737.00</b>     |  |
|         | 850 mm dia  | Each Set    | <b>822.00</b>          | <b>822.00</b>     | <b>822.00</b>     |  |
|         | 900 mm dia  | Each Set    | <b>864.00</b>          | <b>864.00</b>     | <b>864.00</b>     |  |
|         | 1000 mm dia   | Each Set    | <b>957.00</b>          | <b>957.00</b>     | <b>957.00</b>     |  |

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

## 11. SoRATES FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2013-14

| Sl.No. | Description   |       |                  |          |           |           |           |           |
|--------|---|-------|------------------|----------|-----------|-----------|-----------|-----------|
| 1      | 2   |       |                  |          |           |           |           |           |
| 1      | MANUFACTURE, SUPPLY, DELIVERY OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES CONFORMING TO IS 784/2001 Ex-factory excluding transportation, taxes & duties.  |       |                  |          |           |           |           |           |
|        | Size  | Unit  | SoR For 2013-14. |          |           |           |           |           |
|        |   |       | 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 | 2511             | 2520     | 2532      | 2546      | 2600      | 2692      |
|        | 400 MM DIA  | Metre | 2693             | 2714     | 2747      | 2784      | 2837      | 2882      |
|        | 450 MM DIA  | Metre | 2840             | 2854     | 2889      | 2948      | 3027      | 3094      |
|        | 500 MM DIA  | Metre | 3073             | 3088     | 3114      | 3186      | 3255      | 3355      |
|        | 600 MM DIA  | Metre | 3529             | 3556     | 3595      | 3713      | 3837      | 3960      |
|        | 700 MM DIA  | Metre | 4349             | 4369     | 4442      | 4551      | 4719      | 4857      |
|        | 800 MM DIA  | Metre | 5132             | 5187     | 5326      | 5459      | 5685      | 5893      |
|        | 900 MM DIA  | Metre | 5951             | 5999     | 6141      | 6407      | 6666      | 7134      |
|        | 1000 MM DIA   | Metre | 6990             | 7053     | 7261      | 7561      | 7930      | 8360      |
|        | 1100 MM DIA   | Metre | 7937             | 8056     | 8291      | 8759      | 9155      | 9602      |
|        | 1200 MM DIA   | Metre | 8786             | 8942     | 9424      | 9873      | 10517     | 11326     |
|        | 1300 MM DIA   | Metre | 9959             | 10539    | 11131     | 11733     | 12764     | 13957     |
|        | 1400 MM DIA   | Metre | 11399            | 12070    | 12771     | 13892     | 14908     | 15733     |
|        | 1500 MM DIA   | Metre | 13305            | 14097    | 14889     | 16176     | 17258     | 18194     |
|        | 1600 MM DIA   | Metre | 14982            | 15885    | 16790     | 19068     | 19556     | 20617     |
|        | 1700 MM DIA   | Metre | 15769            | 16428    | 17322     | 19538     | 21697     | 22722     |
|        | 1800 MM DIA   | Metre | 16982            | 18111    | 19151     | 21109     | 23441     | 24583     |
|        | 1900 MM DIA   | Metre | 18153            | 19196    | 20957     | 22206     | 24208     | 27029     |
|        | 2000 MM DIA   | Metre | 19953            | 21252    | 22418     | 24702     | 28218     | 30347     |
| 2      | 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. |       |                  |          |           |           |           |           |
|        | 350 MM DIA  | Metre | 176              | 176      | 176       | 176       | 176       | 176       |

|          |   |         |      |      |      |      |      |      |
|----------|---|---------|------|------|------|------|------|------|
|          | 400 MM DIA  | Metre   | 190  | 190  | 190  | 190  | 190  | 190  |
|          | 450 MM DIA  | Metre   | 220  | 220  | 220  | 220  | 220  | 220  |
|          | 500 MM DIA  | Metre   | 234  | 234  | 234  | 234  | 234  | 234  |
|          | 600 MM DIA  | Metre   | 287  | 287  | 287  | 287  | 287  | 287  |
|          | 700 MM DIA  | Metre   | 337  | 337  | 337  | 337  | 337  | 337  |
|          | 800 MM DIA  | Metre   | 382  | 382  | 382  | 382  | 382  | 382  |
|          | 900 MM DIA  | Metre   | 418  | 418  | 418  | 418  | 418  | 418  |
|          | 1000 MM IA  | Metre   | 483  | 483  | 483  | 483  | 483  | 483  |
|          | 1100 MM IA  | Metre   | 542  | 542  | 542  | 542  | 542  | 542  |
|          | 1200 MMDIA  | Metre   | 601  | 601  | 601  | 601  | 601  | 601  |
|          | 1300 MM DIA   | Metre   | 681  | 681  | 681  | 681  | 681  | 681  |
|          | 1400 MM DIA   | Metre   | 770  | 770  | 770  | 770  | 770  | 770  |
|          | 1500 MM DIA   | Metre   | 835  | 835  | 835  | 835  | 835  | 835  |
|          | 1600 MM DIA   | Metre   | 936  | 936  | 936  | 936  | 936  | 936  |
|          | 1700 MM DIA   | Metre   | 1019 | 1019 | 1019 | 1019 | 1019 | 1019 |
|          | 1800 MM DIA   | Metre   | 1078 | 1078 | 1078 | 1078 | 1078 | 1078 |
|          | 1900 MM DIA   | Metre   | 1139 | 1139 | 1139 | 1139 | 1139 | 1139 |
|          | 2000 MM DIA   | Metre   | 1198 | 1198 | 1198 | 1198 | 1198 | 1198 |
| <b>3</b> | <b>CONVEYANCE OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPEES 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 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 |
|          | 400 MM DIA  | PerKM/M | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 |
|          | 450 MM DIA  | PerKM/M | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 |
|          | 500 MM DIA  | PerKM/M | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 |
|          | 600 MM DIA  | PerKM/M | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 |
|          | 700 MM DIA  | PerKM/M | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
|          | 800 MM DIA  | PerKM/M | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
|          | 900 MM DIA  | PerKM/M | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |

|          |  |          |              |              |              |              |              |              |
|----------|--|----------|--------------|--------------|--------------|--------------|--------------|--------------|
|          | 1000 MM DIA  | PerKM/M  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  |
|          | 1100 MM DIA  | PerKM/M  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  | <b>4.51</b>  |
|          | 1200 MM DIA  | PerKM/M  | <b>8.69</b>  | <b>8.69</b>  | <b>8.69</b>  | <b>8.69</b>  | <b>8.69</b>  | <b>8.69</b>  |
|          | 1300 MM DIA  | PerKM/M  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  |
|          | 1400 MM DIA  | PerKM/M  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  |
|          | 1500 MM DIA  | PerKM/M  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  | <b>8.80</b>  |
|          | 1600 MM DIA  | PerKM/M  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  |
|          | 1700 MM DIA  | PerKM/M  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  |
|          | 1800 MM DIA  | PerKM/M  | <b>10.12</b> | <b>10.12</b> | <b>10.12</b> | <b>10.12</b> | <b>10.12</b> | <b>10.12</b> |
|          | 1900 MM DIA  | PerKM/M  | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> |
|          | 2000 MM DIA  | PerKM/M  | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> | <b>10.56</b> |
| <b>4</b> | <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 | <b>11124</b> | <b>11124</b> | <b>11124</b> | <b>11124</b> | <b>11124</b> | <b>11124</b> |
|          | 400 MM DIA   | Per Pair | <b>12759</b> | <b>12759</b> | <b>12759</b> | <b>12759</b> | <b>12759</b> | <b>12759</b> |
|          | 450 MM DIA   | Per Pair | <b>14394</b> | <b>14394</b> | <b>14394</b> | <b>14394</b> | <b>14394</b> | <b>14394</b> |
|          | 500 MM DIA   | Per Pair | <b>16030</b> | <b>16030</b> | <b>16030</b> | <b>16030</b> | <b>16030</b> | <b>16030</b> |
|          | 600 MM DIA   | Per Pair | <b>19237</b> | <b>19237</b> | <b>19237</b> | <b>19237</b> | <b>19237</b> | <b>19237</b> |
|          | 700 MM DIA   | Per Pair | <b>22508</b> | <b>22508</b> | <b>22508</b> | <b>22508</b> | <b>22508</b> | <b>22508</b> |
|          | 800 MM DIA   | Per Pair | <b>25780</b> | <b>25780</b> | <b>25780</b> | <b>25780</b> | <b>25780</b> | <b>25780</b> |
|          | 900 MM DIA   | Per Pair | <b>29051</b> | <b>29051</b> | <b>29051</b> | <b>29051</b> | <b>29051</b> | <b>29051</b> |
|          | 1000 MM DIA  | Per Pair | <b>32061</b> | <b>32061</b> | <b>32061</b> | <b>32061</b> | <b>32061</b> | <b>32061</b> |
|          | 1100 MM DIA  | Per Pair | <b>35333</b> | <b>35333</b> | <b>35333</b> | <b>35333</b> | <b>35333</b> | <b>35333</b> |
|          | 1200 MM DIA  | Per Pair | <b>38604</b> | <b>38604</b> | <b>38604</b> | <b>38604</b> | <b>38604</b> | <b>38604</b> |
|          | 1300 MM DIA  | Per Pair | <b>41614</b> | <b>41614</b> | <b>41614</b> | <b>41614</b> | <b>41614</b> | <b>41614</b> |

|          |  |                    |               |                           |                    |               |               |               |
|----------|--|--------------------|---------------|---------------------------|--------------------|---------------|---------------|---------------|
|          | 1400 MM DIA  | Per Pair           | <b>49073</b>  | <b>49073</b>              | <b>49073</b>       | <b>49073</b>  | <b>49073</b>  | <b>49073</b>  |
|          | 1500 MM DIA  | Per Pair           | <b>57579</b>  | <b>57579</b>              | <b>57579</b>       | <b>57579</b>  | <b>57579</b>  | <b>57579</b>  |
|          | 1600 MM DIA  | Per Pair           | <b>64122</b>  | <b>64122</b>              | <b>64122</b>       | <b>64122</b>  | <b>64122</b>  | <b>64122</b>  |
|          | 1700 MM DIA  | Per Pair           | <b>71950</b>  | <b>71950</b>              | <b>71950</b>       | <b>71950</b>  | <b>71950</b>  | <b>71950</b>  |
|          | 1800 MM DIA  | Per Pair           | <b>82229</b>  | <b>82229</b>              | <b>82229</b>       | <b>82229</b>  | <b>82229</b>  | <b>82229</b>  |
|          | 1900 MM DIA  | Per Pair           | <b>95076</b>  | <b>95076</b>              | <b>95076</b>       | <b>95076</b>  | <b>95076</b>  | <b>95076</b>  |
|          | 2000 MM DIA  | Per Pair           | <b>114349</b> | <b>114349</b>             | <b>114349</b>      | <b>114349</b> | <b>114349</b> | <b>114349</b> |
| <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  | <b>Each Flange</b> | <b>713</b>    | 100 mm DIA x 20 mm thick  | <b>Each Flange</b> | <b>7206</b>   |               |               |
|          | 100 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>972</b>    | 600 mm DIA x 20 mm thick  | <b>Each Flange</b> | <b>9071</b>   |               |               |
|          | 125 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>1167</b>   | 700 mm DIA x 25 mm thick  | <b>Each Flange</b> | <b>12830</b>  |               |               |
|          | 150 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>1555</b>   | 750 mm DIA x 25 mm thick  | <b>Each Flange</b> | <b>14126</b>  |               |               |
|          | 200 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>1944</b>   | 800 mm DIA x 25 mm thick  | <b>Each Flange</b> | <b>15810</b>  |               |               |
|          | 250 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>2527</b>   | 900 mm DIA x 25 mm thick  | <b>Each Flange</b> | <b>18143</b>  |               |               |
|          | 300 mm DIA x 15 mm thick   | <b>Each Flange</b> | <b>2863</b>   | 1000 mm DIA x 25 mm thick | <b>Each Flange</b> | <b>21382</b>  |               |               |
|          | 350 mm DIA x 18 mm thick   | <b>Each Flange</b> | <b>4173</b>   | 1050 mm DIA x 25 mm thick | <b>Each Flange</b> | <b>22653</b>  |               |               |
|          | 400 mm DIA x 18 mm thick   | <b>Each Flange</b> | <b>5209</b>   | 1100 mm DIA x 25 mm thick | <b>Each Flange</b> | <b>24492</b>  |               |               |
|          | 450 mm DIA x 18 mm thick   | <b>Each Flange</b> | <b>6052</b>   | 1200 mm DIA x 32 mm thick | <b>Each Flange</b> | <b>32527</b>  |               |               |

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.58,000/-MT (Basic+ CED+ST & freight). and cement price of Rs.4,100/- 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 X Wh.

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

$H1 = \text{Rs. } 58,000/-$   $H2 = \text{Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.}$

$C1 = \text{Rs. } 4,100/-$   $C2 = \text{Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate}$

$Wh = \text{Weight of HT Wire required (Kg.) per metre of pipe.}$   $Wc = \text{Weight of Cement required (Kg.) per metre of pipe.}$

The rates for MS flanges are considering landed price of MS Plates of Rs.43,000/- 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. SoRATES FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2013-14

| Sl No. | Description   |       |                 |          |          |           |           |           |           |           |           |
|--------|---|-------|-----------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1      | 2   |       |                 |          |          |           |           |           |           |           |           |
| 1      | 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 & duties Etc.  |       |                 |          |          |           |           |           |           |           |           |
|        | Size  | Unit  | SoR For 2013-14 |          |          |           |           |           |           |           |           |
|        |   |       | 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 | 4784            | 4784     | 4784     | 4784      | 4808      | 4859      | 4944      | 5026      | 5089      |
|        | 450 MM DIA  | Meter | 5199            | 5199     | 5199     | 5223      | 5284      | 5359      | 5467      | 5541      | 5628      |
|        | 500 MM DIA  | Meter | 5684            | 5684     | 5697     | 5776      | 5845      | 5940      | 6028      | 6161      | 6259      |
|        | 600 MM DIA  | Meter | 6750            | 6799     | 6888     | 7008      | 7117      | 7228      | 7398      | 7555      | 7714      |
|        | 700 MM DIA  | Meter | 7799            | 7921     | 8068     | 8225      | 8373      | 8518      | 8699      | 8931      | 9103      |
|        | 800 MM DIA  | Meter | 9151            | 9322     | 9527     | 9733      | 9920      | 10112     | 10345     | 10592     | 10876     |
|        | 900 MM DIA  | Meter | 10819           | 11038    | 11292    | 11549     | 11805     | 12036     | 12346     | 12653     | 12959     |
|        | 1000 MM DIA   | Meter | 12547           | 12838    | 13145    | 13462     | 13776     | 14038     | 14401     | 14776     | 15161     |
|        | 1100 MM DIA   | Meter | 13945           | 14293    | 14661    | 14992     | 15343     | 15662     | 16060     | 16481     | 17402     |
|        | 1200 MM DIA   | Meter | 15806           | 16212    | 16623    | 17032     | 17452     | 17827     | 18293     | 19215     | 19874     |
|        | 1300 MM DIA   | Meter | 17576           | 18045    | 18523    | 19001     | 19491     | 19923     | 21025     | 21613     | 22351     |
|        | 1400 MM DIA   | Meter | 19274           | 19808    | 20365    | 20924     | 21481     | 22583     | 23266     | 23965     | 25516     |
|        | 1500 MM DIA   | Meter | 21112           | 21707    | 22302    | 22888     | 24121     | 24797     | 25821     | 27342     | 29145     |
|        | 1600 MM DIA   | Meter | 23819           | 24482    | 25158    | 26419     | 27186     | 27954     | 29866     | 30714     | 31539     |
|        | 1700 MM DIA   | Meter | 25630           | 26397    | 27210    | 28655     | 29525     | 31151     | 32617     | 33535     | 34406     |
|        | 1800 MM DIA   | Meter | 28071           | 28876    | 30450    | 31427     | 32380     | 34172     | 35735     | 36838     | 37941     |
|        | 1900 MM DIA   | Meter | 32916           | 33834    | 35591    | 36633     | 38489     | 39971     | 41409     | 42634     | 43792     |
|        | 2000 MM DIA   | Meter | 35078           | 36819    | 37999    | 39213     | 41332     | 42615     | 44597     | 46006     | 47255     |
| 2      | Cost of laying jointing, testing to Hydrostatic field test pressure including 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. |       |                 |          |          |           |           |           |           |           |           |



|          |   |          |      |      |      |      |      |      |      |      |      |
|----------|---|----------|------|------|------|------|------|------|------|------|------|
|          | 400 MM DIA  | Meter    | 371  | 371  | 371  | 371  | 371  | 371  | 371  | 371  | 371  |
|          | 450 MM DIA  | Meter    | 436  | 436  | 436  | 436  | 436  | 436  | 436  | 436  | 436  |
|          | 500 MM DIA  | Meter    | 475  | 475  | 475  | 475  | 475  | 475  | 475  | 475  | 475  |
|          | 600 MM DIA  | Meter    | 556  | 556  | 556  | 556  | 556  | 556  | 556  | 556  | 556  |
|          | 700 MM DIA  | Meter    | 634  | 634  | 634  | 634  | 634  | 634  | 634  | 634  | 634  |
|          | 800 MM DIA  | Meter    | 727  | 727  | 727  | 727  | 727  | 727  | 727  | 727  | 727  |
|          | 900 MM DIA  | Meter    | 820  | 820  | 820  | 820  | 820  | 820  | 820  | 820  | 820  |
|          | 1000 MM DIA   | Meter    | 898  | 898  | 898  | 898  | 898  | 898  | 898  | 898  | 898  |
|          | 1100 MM DIA   | Meter    | 1018 | 1018 | 1018 | 1018 | 1018 | 1018 | 1018 | 1018 | 1018 |
|          | 1200 MM DIA   | Meter    | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 |
|          | 1300 MM DIA   | Meter    | 1189 | 1189 | 1189 | 1189 | 1189 | 1189 | 1189 | 1189 | 1189 |
|          | 1400 MM DIA   | Meter    | 1309 | 1309 | 1309 | 1309 | 1309 | 1309 | 1309 | 1309 | 1309 |
|          | 1500 MM DIA   | Meter    | 1453 | 1453 | 1453 | 1453 | 1453 | 1453 | 1453 | 1453 | 1453 |
|          | 1600 MM DIA   | Meter    | 1573 | 1573 | 1573 | 1573 | 1573 | 1573 | 1573 | 1573 | 1573 |
|          | 1700 MM DIA   | Meter    | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 | 1771 |
|          | 1800 MM DIA   | Meter    | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 | 1877 |
|          | 1900 MM DIA   | Meter    | 2048 | 2048 | 2048 | 2048 | 2048 | 2048 | 2048 | 2048 | 2048 |
|          | 2000 MM DIA   | Meter    | 2180 | 2180 | 2180 | 2180 | 2180 | 2180 | 2180 | 2180 | 2180 |
| <b>3</b> | <b>CONVEYANCE OF PRE-STRES-SED (CYLINDER TYPE) CONCRETE 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> |          |      |      |      |      |      |      |      |      |      |
|          | 400 MM DIA  | Per KM/M | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
|          | 450 MM DIA  | Per KM/M | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
|          | 500 MM DIA  | Per KM/M | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 |
|          | 600 MM DIA  | Per KM/M | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 |
|          | 700 MM DIA  | Per KM/M | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 |

|             |          |              |              |              |              |              |              |              |              |              |              |
|-------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 800 MM DIA  | Per KM/M | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  |
| 900 MM DIA  | Per KM/M | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  | <b>2.64</b>  |
| 1000 MM DIA | Per KM/M | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  |
| 1100 MM DIA | Per KM/M | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  | <b>4.18</b>  |
| 1200 MM DIA | Per KM/M | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  |
| 1300 MM DIA | Per KM/M | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  |
| 1400 MM DIA | Per KM/M | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  |
| 1500 MM DIA | Per KM/M | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  |
| 1600 MM DIA | Per KM/M | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  | <b>8.14</b>  |
| 1700 MM DIA | Per KM/M | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  |
| 1800 MM DIA | Per KM/M | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  |
| 1900 MM DIA | Per KM/M | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  | <b>9.90</b>  |
| 2000 MM DIA | Per KM/M | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> | <b>10.45</b> |

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

HT Wire: - Rs.58,000/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.48,500/- (including all taxes & freight)

Cement Cost Rs. 4,100/- 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. 58,000/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 48,500/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .  
C1 = Rs. 4,100/- 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.  
Wr = 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. SoRATES FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2013-14

| 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<br>Kg/cm <sup>2</sup> | 18<br>Kg/cm <sup>2</sup> | 20<br>Kg/cm <sup>2</sup> | 22<br>Kg/cm <sup>2</sup> | 24<br>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 | 2788                        | 2788                     | 2788                     | 2788                     | 2788                     | 2788                     | 2791                     | 2832                     | 2864                     | 3013                     |
|        | 300 MM DIA  | Meter | 3139                        | 3139                     | 3139                     | 3139                     | 3139                     | 3187                     | 3276                     | 3400                     | 3470                     | 3650                     |
|        | 350 MM DIA  | Meter | 3801                        | 3801                     | 3801                     | 3824                     | 3868                     | 3916                     | 4021                     | 4168                     | 4294                     | 4485                     |
|        | 400 MM DIA  | Meter | 4172                        | 4172                     | 4198                     | 4268                     | 4323                     | 4529                     | 4712                     | 4900                     | 5066                     | 5726                     |
|        | 450 MM DIA  | Meter | 4602                        | 4619                     | 4701                     | 4767                     | 5009                     | 5220                     | 5476                     | 5688                     | 5923                     | 6422                     |
|        | 500 MM DIA  | Meter | 5144                        | 5220                     | 5311                     | 5576                     | 5850                     | 6150                     | 6457                     | 6723                     | 7173                     | 7619                     |
|        | 600 MM DIA  | Meter | 6799                        | 6914                     | 7037                     | 7455                     | 7870                     | 8213                     | 8676                     | 9083                     | 9650                     | 10139                    |
|        | 700 MM DIA  | Meter | 8202                        | 8447                     | 9034                     | 9605                     | 10186                    | 10765                    | 11513                    | 12033                    | 12621                    | 13419                    |
|        | 800 MM DIA  | Meter | 9327                        | 10129                    | 10858                    | 11571                    | 12338                    | 13285                    | 14096                    | 15197                    | 15915                    | 16902                    |
|        | 900 MM DIA  | Meter | 11569                       | 12102                    | 13040                    | 13969                    | 14869                    | 15636                    | 17207                    | 18471                    | 19361                    | 20647                    |
|        | 1000 MM DIA   | Meter | 13077                       | 14378                    | 15464                    | 16546                    | 17659                    | 19189                    | 21057                    | 22528                    | 23837                    | 25503                    |
|        | 1100 MM DIA   | Meter | 18832                       | 19182                    | 19438                    | 21342                    | 23474                    | 24966                    | 27739                    | 29186                    | 31177                    | 33854                    |
|        | 1200 MM DIA   | Meter | 20828                       | 21493                    | 22346                    | 24618                    | 27057                    | 29186                    | 31771                    | 33146                    | 37069                    | 40709                    |
| 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 | 253                         | 253                      | 253                      | 253                      | 253                      | 253                      | 253                      | 253                      | 253                      | 253                      |
|        | 300 MM DIA  | Meter | 297                         | 297                      | 297                      | 297                      | 297                      | 297                      | 297                      | 297                      | 297                      | 297                      |
|        | 350 MM DIA  | Meter | 352                         | 352                      | 352                      | 352                      | 352                      | 352                      | 352                      | 352                      | 352                      | 352                      |
|        | 400 MM DIA  | Meter | 394                         | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      |
|        | 450 MM DIA  | Meter | 394                         | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      | 394                      |
|        | 500 MM DIA  | Meter | 493                         | 493                      | 493                      | 493                      | 493                      | 493                      | 493                      | 493                      | 493                      | 493                      |
|        | 600 MM DIA  | Meter | 605                         | 605                      | 605                      | 605                      | 605                      | 605                      | 605                      | 605                      | 605                      | 605                      |

|          |   |          |      |      |      |      |      |      |      |      |      |      |
|----------|---|----------|------|------|------|------|------|------|------|------|------|------|
|          | 700 MM DIA  | Meter    | 705  | 705  | 705  | 705  | 705  | 705  | 705  | 705  | 705  | 705  |
|          | 800 MM DIA  | Meter    | 803  | 803  | 803  | 803  | 803  | 803  | 803  | 803  | 803  | 803  |
|          | 900 MM DIA  | Meter    | 944  | 944  | 944  | 944  | 944  | 944  | 944  | 944  | 944  | 944  |
|          | 1000 MM DIA   | Meter    | 1043 | 1043 | 1043 | 1043 | 1043 | 1043 | 1043 | 1043 | 1043 | 1043 |
|          | 1100 MM DIA   | Meter    | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 |
|          | 1200 MM DIA   | Meter    | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 |
| <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 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
|          | 300 MM DIA  | Per KM/M | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
|          | 350 MM DIA  | Per KM/M | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
|          | 400 MM DIA  | Per KM/M | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
|          | 450 MM DIA  | Per KM/M | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 |
|          | 500 MM DIA  | Per KM/M | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 |
|          | 600 MM DIA  | Per KM/M | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 |
|          | 700 MM DIA  | Per KM/M | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 |
|          | 800 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 |
|          | 900 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 |
|          | 1000 MM DIA   | Per KM/M | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
|          | 1100 MM DIA   | Per KM/M | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 |
|          | 1200 MM DIA   | Per KM/M | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 | 9.68 |

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

HR Plates - Rs.48,500/- per MT (Basic +CED+ST & freight)

Wire rods - Rs.46,000/- per MT (Basic +CED+ST & freight)

Cement Cost Rs. 4,100/-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. 48,500/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 46,000/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

C1 = Rs. 4,100/- 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. SoRATES FOR M.S.SPIRAL PIPES FOR THE YEAR 2013-14**

| <b>Sl.No.</b> | <b>Description</b>   | <b>Unit</b> | <b>Thicknes<br/>s in mm</b> | <b>Rate (Rs.)</b> |
|---------------|--|-------------|-----------------------------|-------------------|
| <b>1</b>      | <b>2</b>   | <b>3</b>    | <b>4</b>                    | <b>5</b>          |
| 1             | <b>Manufacture, Supply and Delivery of Spirally welded M.S Pipes Conforming to IS 3589/2001 including in lining with Cement motor(1:2)15mm thick using 4 numbers of 6mm dia M.S.Rings at each end of the pipe and Out coating cement motor(1:3)30mm thick by shorcreting 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                        | <b>8126</b>       |
|               | 600 MM DIA   | Meter       | 8.00                        | <b>9689</b>       |
|               | 700 MM DIA   | Meter       | 8.00                        | <b>11303</b>      |
|               | 700 MM DIA   | Meter       | 10.00                       | <b>14037</b>      |
|               | 800 MM DIA   | Meter       | 8.00                        | <b>12971</b>      |
|               | 800 MM DIA   | Meter       | 10.00                       | <b>14980</b>      |
|               | 800 MM DIA   | Meter       | 12.00                       | <b>17744</b>      |
|               | 900 MM DIA   |             | 8.00                        | <b>14480</b>      |
|               | 900 MM DIA   | Meter       | 10.00                       | <b>16737</b>      |
|               | 900 MM DIA   | Meter       | 12.00                       | <b>18999</b>      |
|               | 1000 MM DIA  | Meter       | 8.00                        | <b>16254</b>      |
|               | 1000 MM DIA  | Meter       | 10.00                       | <b>18752</b>      |
|               | 1000 MM DIA  | Meter       | 12.00                       | <b>21169</b>      |
|               | 1000 MM DIA  | Meter       | 14.00                       | <b>24461</b>      |
|               | 1100 MM DIA  | Meter       | 8.00                        | <b>19173</b>      |
|               | 1100 MM DIA  | Meter       | 10.00                       | <b>21921</b>      |
|               | 1100 MM DIA  | Meter       | 12.00                       | <b>24672</b>      |
|               | 1100 MM DIA  | Meter       | 14.00                       | <b>28520</b>      |
|               | 1100 MM DIA  | Meter       | 16.00                       | <b>32383</b>      |
|               | 1200 MM DIA  | Meter       | 8.00                        | <b>21678</b>      |
|               | 1200 MM DIA  | Meter       | 10.00                       | <b>24665</b>      |
|               | 1200 MM DIA  | Meter       | 12.00                       | <b>27663</b>      |
|               | 1200 MM DIA  | Meter       | 14.00                       | <b>30676</b>      |
|               | 1200 MM DIA  | Meter       | 16.00                       | <b>34821</b>      |
|               | 1200 MM DIA  | Meter       | 18.00                       | <b>38978</b>      |

|  |             |       |       |              |
|--|-------------|-------|-------|--------------|
|  | 1300 MM DIA | Meter | 8.00  | <b>23659</b> |
|  | 1300 MM DIA | Meter | 10.00 | <b>26891</b> |
|  | 1300 MM DIA | Meter | 12.00 | <b>30135</b> |
|  | 1300 MM DIA | Meter | 14.00 | <b>33387</b> |
|  | 1300 MM DIA | Meter | 16.00 | <b>36654</b> |
|  | 1300 MM DIA | Meter | 18.00 | <b>41019</b> |
|  | 1300 MM DIA | Meter | 20.00 | <b>45398</b> |
|  |             |       |       |              |
|  | 1400 MM DIA | Meter | 8.00  | <b>25169</b> |
|  | 1400 MM DIA | Meter | 10.00 | <b>28644</b> |
|  | 1400 MM DIA | Meter | 12.00 | <b>32133</b> |
|  | 1400 MM DIA | Meter | 14.00 | <b>35635</b> |
|  | 1400 MM DIA | Meter | 16.00 | <b>39143</b> |
|  | 1400 MM DIA | Meter | 18.00 | <b>43798</b> |
|  | 1400 MM DIA | Meter | 20.00 | <b>48465</b> |
|  | 1400 MM DIA | Meter | 22.00 | <b>53145</b> |
|  |             |       |       |              |
|  | 1500 MM DIA | Meter | 8.00  | <b>26939</b> |
|  | 1500 MM DIA | Meter | 10.00 | <b>30665</b> |
|  | 1500 MM DIA | Meter | 12.00 | <b>34395</b> |
|  | 1500 MM DIA | Meter | 14.00 | <b>38140</b> |
|  | 1500 MM DIA | Meter | 16.00 | <b>41895</b> |
|  | 1500 MM DIA | Meter | 18.00 | <b>45654</b> |
|  | 1500 MM DIA | Meter | 20.00 | <b>50506</b> |
|  | 1500 MM DIA | Meter | 22.00 | <b>55372</b> |
|  | 1500 MM DIA | Meter | 24.00 | <b>60251</b> |
|  |             |       |       |              |
|  | 1600 MM DIA | Meter | 8.00  | <b>28464</b> |
|  | 1600 MM DIA | Meter | 10.00 | <b>32415</b> |
|  | 1600 MM DIA | Meter | 12.00 | <b>36394</b> |
|  | 1600 MM DIA | Meter | 14.00 | <b>40384</b> |
|  | 1600 MM DIA | Meter | 16.00 | <b>44382</b> |
|  | 1600 MM DIA | Meter | 18.00 | <b>48389</b> |
|  | 1600 MM DIA | Meter | 20.00 | <b>53525</b> |
|  | 1600 MM DIA | Meter | 22.00 | <b>58676</b> |
|  | 1600 MM DIA | Meter | 24.00 | <b>63838</b> |
|  | 1600 MM DIA | Meter | 26.00 | <b>69012</b> |
|  |             |       |       |              |
|  | 1700 MM DIA | Meter | 8.00  | <b>30220</b> |
|  | 1700 MM DIA | Meter | 10.00 | <b>34431</b> |
|  | 1700 MM DIA | Meter | 12.00 | <b>38654</b> |
|  | 1700 MM DIA | Meter | 14.00 | <b>42888</b> |
|  | 1700 MM DIA | Meter | 16.00 | <b>47129</b> |
|  | 1700 MM DIA | Meter | 18.00 | <b>51384</b> |
|  | 1700 MM DIA | Meter | 20.00 | <b>56835</b> |
|  | 1700 MM DIA | Meter | 22.00 | <b>62301</b> |
|  | 1700 MM DIA | Meter | 24.00 | <b>67776</b> |
|  | 1700 MM DIA | Meter | 26.00 | <b>73267</b> |
|  | 1700 MM DIA | Meter | 28.00 | <b>78768</b> |
|  |             |       |       |              |



|  |             |       |       |               |
|--|-------------|-------|-------|---------------|
|  | 1800 MM DIA | Meter | 8.00  | <b>31990</b>  |
|  | 1800 MM DIA | Meter | 10.00 | <b>36447</b>  |
|  | 1800 MM DIA | Meter | 12.00 | <b>40915</b>  |
|  | 1800 MM DIA | Meter | 14.00 | <b>45397</b>  |
|  | 1800 MM DIA | Meter | 16.00 | <b>49879</b>  |
|  | 1800 MM DIA | Meter | 18.00 | <b>54380</b>  |
|  | 1800 MM DIA | Meter | 20.00 | <b>58888</b>  |
|  | 1800 MM DIA | Meter | 22.00 | <b>64539</b>  |
|  | 1800 MM DIA | Meter | 24.00 | <b>70203</b>  |
|  | 1800 MM DIA | Meter | 26.00 | <b>75876</b>  |
|  | 1800 MM DIA | Meter | 28.00 | <b>81565</b>  |
|  | 1800 MM DIA | Meter | 30.00 | <b>87263</b>  |
|  |             |       |       |               |
|  | 1900 MM DIA | Meter | 8.00  | <b>32516</b>  |
|  | 1900 MM DIA | Meter | 10.00 | <b>38202</b>  |
|  | 1900 MM DIA | Meter | 12.00 | <b>42910</b>  |
|  | 1900 MM DIA | Meter | 14.00 | <b>47634</b>  |
|  | 1900 MM DIA | Meter | 16.00 | <b>52368</b>  |
|  | 1900 MM DIA | Meter | 18.00 | <b>57113</b>  |
|  | 1900 MM DIA | Meter | 20.00 | <b>61862</b>  |
|  | 1900 MM DIA | Meter | 22.00 | <b>67794</b>  |
|  | 1900 MM DIA | Meter | 24.00 | <b>73737</b>  |
|  | 1900 MM DIA | Meter | 26.00 | <b>79694</b>  |
|  | 1900 MM DIA | Meter | 28.00 | <b>85661</b>  |
|  | 1900 MM DIA | Meter | 30.00 | <b>91642</b>  |
|  | 1900 MM DIA | Meter | 32.00 | <b>97632</b>  |
|  |             |       |       |               |
|  | 2000 MM DIA | Meter | 8.00  | <b>34015</b>  |
|  | 2000 MM DIA | Meter | 10.00 | <b>39956</b>  |
|  | 2000 MM DIA | Meter | 12.00 | <b>44914</b>  |
|  | 2000 MM DIA | Meter | 14.00 | <b>49880</b>  |
|  | 2000 MM DIA | Meter | 16.00 | <b>54857</b>  |
|  | 2000 MM DIA | Meter | 18.00 | <b>59848</b>  |
|  | 2000 MM DIA | Meter | 20.00 | <b>64840</b>  |
|  | 2000 MM DIA | Meter | 22.00 | <b>69808</b>  |
|  | 2000 MM DIA | Meter | 24.00 | <b>75918</b>  |
|  | 2000 MM DIA | Meter | 26.00 | <b>82038</b>  |
|  | 2000 MM DIA | Meter | 28.00 | <b>88173</b>  |
|  | 2000 MM DIA | Meter | 30.00 | <b>94316</b>  |
|  | 2000 MM DIA | Meter | 32.00 | <b>100473</b> |
|  | 2000 MM DIA | Meter | 34.00 | <b>106640</b> |
|  |             |       |       |               |
|  | 2100 MM DIA | Meter | 8.00  | <b>35733</b>  |
|  | 2100 MM DIA | Meter | 10.00 | <b>41971</b>  |
|  | 2100 MM DIA | Meter | 12.00 | <b>47174</b>  |
|  | 2100 MM DIA | Meter | 14.00 | <b>52374</b>  |
|  | 2100 MM DIA | Meter | 16.00 | <b>57607</b>  |
|  | 2100 MM DIA | Meter | 18.00 | <b>62839</b>  |
|  | 2100 MM DIA | Meter | 20.00 | <b>68080</b>  |
|  | 2100 MM DIA | Meter | 22.00 | <b>73334</b>  |

|  |             |       |       |               |
|--|-------------|-------|-------|---------------|
|  | 2100 MM DIA | Meter | 24.00 | <b>79750</b>  |
|  | 2100 MM DIA | Meter | 26.00 | <b>86177</b>  |
|  | 2100 MM DIA | Meter | 28.00 | <b>92616</b>  |
|  | 2100 MM DIA | Meter | 30.00 | <b>99065</b>  |
|  | 2100 MM DIA | Meter | 32.00 | <b>105528</b> |
|  | 2100 MM DIA | Meter | 34.00 | <b>112002</b> |
|  | 2100 MM DIA | Meter | 36.00 | <b>118487</b> |
|  |             |       |       |               |
|  | 2200 MM DIA | Meter | 8.00  | <b>37229</b>  |
|  | 2200 MM DIA | Meter | 10.00 | <b>43726</b>  |
|  | 2200 MM DIA | Meter | 12.00 | <b>49175</b>  |
|  | 2200 MM DIA | Meter | 14.00 | <b>54628</b>  |
|  | 2200 MM DIA | Meter | 16.00 | <b>60097</b>  |
|  | 2200 MM DIA | Meter | 18.00 | <b>65570</b>  |
|  | 2200 MM DIA | Meter | 20.00 | <b>71058</b>  |
|  | 2200 MM DIA | Meter | 22.00 | <b>76558</b>  |
|  | 2200 MM DIA | Meter | 26.00 | <b>89956</b>  |
|  | 2200 MM DIA | Meter | 28.00 | <b>96670</b>  |
|  | 2200 MM DIA | Meter | 30.00 | <b>103398</b> |
|  | 2200 MM DIA | Meter | 32.00 | <b>110137</b> |
|  | 2200 MM DIA | Meter | 34.00 | <b>116889</b> |
|  | 2200 MM DIA | Meter | 36.00 | <b>123652</b> |
|  | 2200 MM DIA | Meter | 38.00 | <b>130428</b> |
|  |             |       |       |               |
|  | 2300 MM DIA | Meter | 10.00 | <b>45741</b>  |
|  | 2300 MM DIA | Meter | 12.00 | <b>51433</b>  |
|  | 2300 MM DIA | Meter | 16.00 | <b>62841</b>  |
|  | 2300 MM DIA | Meter | 18.00 | <b>68565</b>  |
|  | 2300 MM DIA | Meter | 20.00 | <b>74298</b>  |
|  | 2300 MM DIA | Meter | 22.00 | <b>80037</b>  |
|  | 2300 MM DIA | Meter | 26.00 | <b>94037</b>  |
|  | 2300 MM DIA | Meter | 28.00 | <b>101053</b> |
|  | 2300 MM DIA | Meter | 30.00 | <b>108084</b> |
|  | 2300 MM DIA | Meter | 32.00 | <b>115124</b> |
|  | 2300 MM DIA | Meter | 34.00 | <b>122176</b> |
|  | 2300 MM DIA | Meter | 36.00 | <b>129241</b> |
|  | 2300 MM DIA | Meter | 38.00 | <b>136318</b> |
|  | 2300 MM DIA | Meter | 40.00 | <b>143404</b> |
|  |             |       |       |               |
|  | 2400MM DIA  | Meter | 10.00 | <b>47494</b>  |
|  | 2400 MM DIA | Meter | 12.00 | <b>53431</b>  |
|  | 2400 MM DIA | Meter | 14.00 | <b>60264</b>  |
|  | 2400 MM DIA | Meter | 16.00 | <b>66222</b>  |
|  | 2400 MM DIA | Meter | 18.00 | <b>72186</b>  |
|  | 2400 MM DIA | Meter | 20.00 | <b>78165</b>  |
|  | 2400 MM DIA | Meter | 22.00 | <b>84956</b>  |
|  | 2400 MM DIA | Meter | 26.00 | <b>91732</b>  |
|  | 2400 MM DIA | Meter | 28.00 | <b>98097</b>  |
|  | 2400 MM DIA | Meter | 30.00 | <b>104473</b> |
|  | 2400 MM DIA | Meter | 32.00 | <b>110858</b> |

|   |   |       |       |               |
|---|---|-------|-------|---------------|
|   | 2400 MM DIA   | Meter | 34.00 | <b>117252</b> |
|   | 2400 MM DIA   | Meter | 36.00 | <b>123660</b> |
|   | 2400 MM DIA   | Meter | 38.00 | <b>130075</b> |
|   | 2400 MM DIA   | Meter | 40.00 | <b>130536</b> |
|   | 2400 MM DIA   | Meter | 42.00 | <b>136968</b> |
|   |   |       |       |               |
|   | 2500 MM DIA   | Meter | 10.00 | <b>49513</b>  |
|   | 2500 MM DIA   | Meter | 14.00 | <b>61884</b>  |
|   | 2500 MM DIA   | Meter | 16.00 | <b>68085</b>  |
|   | 2500 MM DIA   | Meter | 18.00 | <b>74296</b>  |
|   | 2500 MM DIA   | Meter | 20.00 | <b>80516</b>  |
|   | 2500 MM DIA   | Meter | 22.00 | <b>86747</b>  |
|   | 2500 MM DIA   | Meter | 28.00 | <b>109499</b> |
|   | 2500 MM DIA   | Meter | 30.00 | <b>117108</b> |
|   | 2500 MM DIA   | Meter | 34.00 | <b>132358</b> |
|   | 2500 MM DIA   | Meter | 36.00 | <b>140002</b> |
|   | 2500 MM DIA   | Meter | 38.00 | <b>147657</b> |
|   | 2500 MM DIA   | Meter | 40.00 | <b>155323</b> |
|   | 2500 MM DIA   | Meter | 42.00 | <b>163002</b> |
|   | 2500 MM DIA   | Meter | 44.00 | <b>170692</b> |
|   | 2500 MM DIA   | Meter | 46.00 | <b>178394</b> |
|   |   |       |       |               |
|   | 2600 MM DIA   | Meter | 12.00 | <b>57688</b>  |
|   | 2600 MM DIA   | Meter | 14.00 | <b>64127</b>  |
|   | 2600 MM DIA   | Meter | 16.00 | <b>70576</b>  |
|   | 2600 MM DIA   | Meter | 18.00 | <b>77030</b>  |
|   | 2600 MM DIA   | Meter | 20.00 | <b>83496</b>  |
|   | 2600 MM DIA   | Meter | 22.00 | <b>89970</b>  |
|   | 2600 MM DIA   | Meter | 32.00 | <b>129338</b> |
|   | 2600 MM DIA   | Meter | 34.00 | <b>137247</b> |
|   | 2600 MM DIA   | Meter | 36.00 | <b>145167</b> |
|   | 2600 MM DIA   | Meter | 38.00 | <b>153099</b> |
|   | 2600 MM DIA   | Meter | 40.00 | <b>161044</b> |
|   | 2600 MM DIA   | Meter | 42.00 | <b>169000</b> |
|   | 2600 MM DIA   | Meter | 44.00 | <b>176968</b> |
|   | 2600 MM DIA   | Meter | 46.00 | <b>184947</b> |
|   | 2600 MM DIA   | Meter | 48.00 | <b>192939</b> |
| 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 |       | <b>435</b>    |
|   | 500 MM DIA  | Meter |       | <b>542</b>    |
|   | 600 MM DIA  | Meter |       | <b>667</b>    |
|   | 700 MM DIA  | Meter |       | <b>774</b>    |
|   | 800 MM DIA  | Meter |       | <b>883</b>    |
|   | 900 MM DIA  | Meter |       | <b>1038</b>   |
|   | 1000 MM DIA   | Meter |       | <b>1146</b>   |
|   | 1100 MM DIA   | Meter |       | <b>1348</b>   |

|  |             |       |  |              |
|--|-------------|-------|--|--------------|
|  | 1200 MM DIA | Meter |  | <b>1510</b>  |
|  | 1300 MM DIA | Meter |  | <b>1735</b>  |
|  | 1400 MM DIA | Meter |  | <b>1997</b>  |
|  | 1500 MM DIA | Meter |  | <b>2295</b>  |
|  | 1600 MM DIA | Meter |  | <b>2639</b>  |
|  | 1700 MM DIA | Meter |  | <b>3033</b>  |
|  | 1800 MM DIA | Meter |  | <b>3489</b>  |
|  | 1900 MM DIA | Meter |  | <b>4013</b>  |
|  | 2000 MM DIA | Meter |  | <b>4616</b>  |
|  | 2100 MM DIA | Meter |  | <b>5309</b>  |
|  | 2200 MM DIA | Meter |  | <b>6104</b>  |
|  | 2300 MM DIA | Meter |  | <b>7019</b>  |
|  | 2400 MM DIA | Meter |  | <b>8072</b>  |
|  | 2500 MM DIA | Meter |  | <b>9283</b>  |
|  | 2600 MM DIA | Meter |  | <b>10676</b> |

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

MS Plates = Rs 43,000/- 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>".

$R_1 = \text{Variation (Increase/Decrease) in cost (Rs. Per meter) due to change in cost of MS Plates} = (M_2 - M_1) / 1000 \times W_m$

$M_1 = \text{Rs } 43,000/-$

$M_2 = \text{Cost of MS Plates (Rs. Per MT including all taxes and freight )}$   
at the time of preparation of estimate

$W_m = \text{Weight of MS Plates required (Kg) per meter of pipe}$

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 H.D.P.E PIPES FOR THE YEAR 2013-14. (PE - 80 Grade)**

| Sl.No | Description  | 4.0 kg/<br>sqcm |
|-------|--|-----------------|
| 1     | 2  | 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   | 37              |
|       | OD 50 mm   | 56              |
|       | OD 63 mm   | 77              |
|       | OD 75 mm   | 105             |
|       | OD 90 mm   | 151             |
|       | OD 110 mm  | 224             |
|       | OD 125 mm  | 290             |
|       | OD 140 mm  | 358             |
|       | OD 160 mm  | 468             |
|       | OD 180 mm  | 590             |
|       | OD 200 mm  | 724             |
|       | OD 225 mm  | 942             |
|       | OD 250 mm  | 1165            |
|       | OD 280 mm  | 1453            |
|       | OD 315 mm  | 1846            |
|       | OD 355 mm  | 2242            |
|       | OD 400 mm  | 2905            |
|       | OD 450 mm  | 3692            |
|       | OD 500 mm  | 4535            |
|       | OD 560 mm  | 5608            |
|       | OD 630 mm  | 7093            |
|       | OD 710 mm  | 9013            |
|       | OD 800 mm  | 11408           |
|       | OD 900 mm  | 14455           |
|       | OD 1000 mm   | 17800           |

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.94,680/- 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.

**16(I). SoRATES FOR H.D.P.E PIPES FOR THE YEAR 2013-14. (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  |              |              |               |               | <b>38</b>     |
|          | OD 32 mm  |              |              | <b>38</b>     | <b>50</b>     | <b>62</b>     |
|          | OD 40 mm  |              | <b>49</b>    | <b>58</b>     | <b>75</b>     | <b>95</b>     |
|          | OD 50 mm  | <b>60</b>    | <b>75</b>    | <b>91</b>     | <b>117</b>    | <b>148</b>    |
|          | OD 63 mm  | <b>91</b>    | <b>116</b>   | <b>140</b>    | <b>185</b>    | <b>230</b>    |
|          | OD 75 mm  | <b>129</b>   | <b>164</b>   | <b>197</b>    | <b>263</b>    | <b>328</b>    |
|          | OD 90 mm  | <b>183</b>   | <b>234</b>   | <b>280</b>    | <b>374</b>    | <b>476</b>    |
|          | OD 110 mm   | <b>275</b>   | <b>349</b>   | <b>416</b>    | <b>562</b>    | <b>693</b>    |
|          | OD 125 mm   | <b>351</b>   | <b>450</b>   | <b>540</b>    | <b>721</b>    | <b>891</b>    |
|          | OD 140 mm   | <b>441</b>   | <b>563</b>   | <b>677</b>    | <b>907</b>    | <b>1124</b>   |
|          | OD 160 mm   | <b>576</b>   | <b>733</b>   | <b>881</b>    | <b>1182</b>   | <b>1459</b>   |
|          | OD 180 mm   | <b>725</b>   | <b>928</b>   | <b>1115</b>   | <b>1492</b>   | <b>1841</b>   |
|          | OD 200 mm   | <b>896</b>   | <b>1146</b>  | <b>1375</b>   | <b>1847</b>   | <b>2274</b>   |
|          | OD 225 mm   | <b>1158</b>  | <b>1480</b>  | <b>1781</b>   | <b>2330</b>   | <b>2873</b>   |
|          | OD 250 mm   | <b>1425</b>  | <b>1829</b>  | <b>2199</b>   | <b>2878</b>   | <b>3547</b>   |
|          | OD 280 mm   | <b>1786</b>  | <b>2290</b>  | <b>2751</b>   | <b>3616</b>   | <b>4456</b>   |
|          | OD 315 mm   | <b>2264</b>  | <b>2900</b>  | <b>3484</b>   | <b>4559</b>   | <b>5636</b>   |
|          | OD 355 mm   | <b>2841</b>  | <b>3632</b>  | <b>4370</b>   | <b>5799</b>   | <b>7170</b>   |
|          | OD 400 mm   | <b>3742</b>  | <b>4779</b>  | <b>5736</b>   | <b>7508</b>   | <b>9255</b>   |
|          | OD 450 mm   | <b>4647</b>  | <b>5959</b>  | <b>7166</b>   | <b>9492</b>   | <b>11646</b>  |
|          | OD 500 mm   | <b>5747</b>  | <b>7347</b>  | <b>8838</b>   | <b>11724</b>  | <b>14019</b>  |
|          | OD 560 mm   | <b>6663</b>  | <b>8524</b>  | <b>10189</b>  | <b>13096</b>  |               |
|          | OD 630 mm   | <b>8399</b>  | <b>10785</b> | <b>12907</b>  | <b>15483</b>  |               |
|          | OD 710 mm   | <b>10685</b> | <b>13667</b> | <b>16394</b>  |               |               |
|          | OD 800 mm   | <b>13560</b> | <b>17352</b> | <b>20879</b>  |               |               |

|  |            |              |              |  |  |  |
|--|------------|--------------|--------------|--|--|--|
|  | OD 900 mm  | <b>17178</b> | <b>21966</b> |  |  |  |
|  | OD 1000 mm | <b>21183</b> |              |  |  |  |

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.95,680/- 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.

**16(II)HDPE PIPES –(PE –100 Grade) SEWER LINES FOR THE YEAR 2013-14**

| 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 14333 - 2000 For using Under Ground Drainage and Sewerage Systems 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 or 12 M.)</b> |              |              |              |              |              |
|          | <b>Rate per Meter</b>   |              |              |              |              |              |
|          | OD 63 mm  | <b>99</b>    | <b>126</b>   | <b>151</b>   | <b>179</b>   | <b>214</b>   |
|          | OD 75 mm  | <b>140</b>   | <b>179</b>   | <b>214</b>   | <b>255</b>   | <b>304</b>   |
|          | OD 90 mm  | <b>200</b>   | <b>256</b>   | <b>305</b>   | <b>362</b>   | <b>438</b>   |
|          | OD 110 mm   | <b>288</b>   | <b>365</b>   | <b>435</b>   | <b>522</b>   | <b>624</b>   |
|          | OD 125 mm   | <b>368</b>   | <b>471</b>   | <b>563</b>   | <b>668</b>   | <b>806</b>   |
|          | OD 140 mm   | <b>461</b>   | <b>587</b>   | <b>707</b>   | <b>841</b>   | <b>1011</b>  |
|          | OD 160 mm   | <b>601</b>   | <b>766</b>   | <b>921</b>   | <b>1078</b>  | <b>1317</b>  |
|          | OD 180 mm   | <b>757</b>   | <b>972</b>   | <b>1164</b>  | <b>1384</b>  | <b>1666</b>  |
|          | OD 200 mm   | <b>938</b>   | <b>1197</b>  | <b>1435</b>  | <b>1714</b>  | <b>2053</b>  |
|          | OD 225 mm   | <b>1182</b>  | <b>1510</b>  | <b>1817</b>  | <b>2160</b>  | <b>2602</b>  |
|          | OD 250 mm   | <b>1459</b>  | <b>1868</b>  | <b>2242</b>  | <b>2668</b>  | <b>3205</b>  |
|          | OD 280 mm   | <b>1824</b>  | <b>2337</b>  | <b>2795</b>  | <b>3354</b>  | <b>4025</b>  |
|          | OD 315 mm   | <b>2309</b>  | <b>2958</b>  | <b>3589</b>  | <b>4231</b>  | <b>5089</b>  |
|          | OD 355 mm   | <b>2926</b>  | <b>3747</b>  | <b>4509</b>  | <b>5380</b>  | <b>6456</b>  |
|          | OD 400 mm   | <b>3868</b>  | <b>4949</b>  | <b>5942</b>  | <b>7085</b>  | <b>8498</b>  |
|          | OD 450 mm   | <b>4883</b>  | <b>6262</b>  | <b>7526</b>  | <b>8954</b>  |              |
|          | OD 500 mm   | <b>6035</b>  | <b>7720</b>  | <b>9282</b>  | <b>11065</b> |              |
|          | OD 560 mm   | <b>7545</b>  | <b>9675</b>  | <b>11646</b> |              |              |
|          | OD 630 mm   | <b>9554</b>  | <b>12247</b> | <b>14714</b> |              |              |
|          | OD 710 mm   | <b>12389</b> | <b>15870</b> |              |              |              |
|          | OD 800 mm   | <b>15717</b> |              |              |              |              |
|          | OD 900 mm   | <b>19907</b> |              |              |              |              |



|  |            |       |  |  |  |  |
|--|------------|-------|--|--|--|--|
|  | OD 1000 mm | 24594 |  |  |  |  |
|--|------------|-------|--|--|--|--|

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.95,680/- 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(I). SoRATES FOR H.D.P.E FITTINGS FOR THE YEAR 2013-14.**

|              | <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 (a)</b> | <b>PIPE ENDS LONG NECK</b>   | <b>Rate per Each</b> |
|              | OD 50 mm   | <b>69</b>            |
|              | OD 63 mm   | <b>87</b>            |
|              | OD 75 mm   | <b>104</b>           |
|              | OD 90 mm   | <b>135</b>           |
|              | OD 110 mm  | <b>187</b>           |
|              | OD 125 mm  | <b>336</b>           |
|              | OD 140 mm  | <b>340</b>           |
|              | OD 160 mm  | <b>474</b>           |
|              | OD 180 mm  | <b>672</b>           |
|              | OD 200 mm  | <b>864</b>           |
|              | OD 225 mm  | <b>991</b>           |
|              | OD 250 mm  | <b>1160</b>          |
|              | OD 280 mm  | <b>1297</b>          |
|              | OD 315 mm  | <b>1495</b>          |
|              | OD 355 mm  | <b>3125</b>          |
|              | OD 400 mm  | <b>4164</b>          |
|              | OD 450 mm  | <b>6930</b>          |
|              | OD 500 mm  | <b>7712</b>          |
| <b>(b)</b>   | <b>MS FLANGES</b>  | <b>Rate per Each</b> |
|              | OD 50 mm   | <b>108</b>           |
|              | OD 63 mm   | <b>137</b>           |
|              | OD 75 mm   | <b>173</b>           |
|              | OD 90 mm   | <b>186</b>           |
|              | OD 110 mm  | <b>196</b>           |
|              | OD 125 mm  | <b>269</b>           |
|              | OD 140 mm  | <b>292</b>           |
|              | OD 160 mm  | <b>383</b>           |
|              | OD 180 mm  | <b>540</b>           |
|              | OD 200 mm  | <b>700</b>           |
|              | OD 225 mm  | <b>875</b>           |
|              | OD 250 mm  | <b>1033</b>          |
|              | OD 280 mm  | <b>1172</b>          |
|              | OD 315 mm  | <b>1379</b>          |
|              | OD 355 mm  | <b>2335</b>          |

|            |                    |                      |
|------------|--------------------|----------------------|
|            | OD 400 mm          | <b>2896</b>          |
|            | OD 450 mm          | <b>3781</b>          |
|            | OD 500 mm          | <b>4329</b>          |
| <b>(c)</b> | <b>END CAPS</b>    | <b>Rate per Each</b> |
|            | OD 50 mm           | <b>46</b>            |
|            | OD 63 mm           | <b>56</b>            |
|            | OD 75 mm           | <b>70</b>            |
|            | OD 90 mm           | <b>93</b>            |
|            | OD 110 mm          | <b>106</b>           |
|            | OD 125 mm          | <b>147</b>           |
|            | OD 140 mm          | <b>171</b>           |
|            | OD 160 mm          | <b>263</b>           |
|            | OD 180 mm          | <b>426</b>           |
|            | OD 200 mm          | <b>465</b>           |
|            | OD 225 mm          | <b>485</b>           |
|            | OD 250 mm          | <b>690</b>           |
|            | OD 280 mm          | <b>706</b>           |
|            | OD 315 mm          | <b>965</b>           |
|            | OD 355 mm          | <b>1490</b>          |
|            | OD 400 mm          | <b>2602</b>          |
|            | OD 450 mm          | <b>4185</b>          |
|            | OD 500 mm          | <b>7712</b>          |
| <b>(d)</b> | <b>REDUCERS</b>    | <b>Rate per Each</b> |
|            | OD 50 mm x 63 mm   | <b>65</b>            |
|            | OD 63 mm x 75 mm   | <b>93</b>            |
|            | OD 75 mm x 90 mm   | <b>152</b>           |
|            | OD 90 mm x 110 mm  | <b>211</b>           |
|            | OD 110 mm x 125 mm | <b>321</b>           |
|            | OD 125 mm x 140 mm | <b>444</b>           |
|            | OD 140 mm x 160 mm | <b>620</b>           |
|            | OD 160 mm x 180 mm | <b>859</b>           |
|            | OD 180 mm x 200 mm | <b>1110</b>          |
|            | OD 200 mm x 225 mm | <b>1362</b>          |
|            | OD 225 mm x 250 mm | <b>1857</b>          |
|            | OD 250 mm x 280 mm | <b>2638</b>          |
|            | OD 280 mm x 315 mm | <b>3730</b>          |
|            | OD 315 mm x 355 mm | <b>4277</b>          |
|            | OD 355 mm x 400 mm | <b>6036</b>          |

|            |                    |                      |
|------------|--------------------|----------------------|
|            | OD 400 mm x 450 mm | <b>6261</b>          |
|            | OD 450 mm x 500 mm | <b>8028</b>          |
| <b>(e)</b> | <b>TEES</b>        | <b>Rate per Each</b> |
|            | OD 50 mm           | <b>89</b>            |
|            | OD 63 mm           | <b>142</b>           |
|            | OD 75 mm           | <b>171</b>           |
|            | OD 90 mm           | <b>301</b>           |
|            | OD 110 mm          | <b>357</b>           |
|            | OD 125 mm          | <b>537</b>           |
|            | OD 140 mm          | <b>741</b>           |
|            | OD 160 mm          | <b>1275</b>          |
|            | OD 180 mm          | <b>1730</b>          |
|            | OD 200 mm          | <b>2382</b>          |
|            | OD 225 mm          | <b>3381</b>          |
|            | OD 250 mm          | <b>4629</b>          |
|            | OD 280 mm          | <b>6482</b>          |
|            | OD 315 mm          | <b>9240</b>          |
|            | OD 355 mm          | <b>13175</b>         |
|            | OD 400 mm          | <b>19297</b>         |
|            | OD 450 mm          | <b>27411</b>         |
|            | OD 500 mm          | <b>37646</b>         |
| <b>(f)</b> | <b>BENDS</b>       | <b>Rate per Each</b> |
|            | OD 50 mm           | <b>56</b>            |
|            | OD 63 mm           | <b>125</b>           |
|            | OD 75 mm           | <b>162</b>           |
|            | OD 90 mm           | <b>278</b>           |
|            | OD 110 mm          | <b>366</b>           |
|            | OD 125 mm          | <b>540</b>           |
|            | OD 140 mm          | <b>711</b>           |
|            | OD 160 mm          | <b>1061</b>          |
|            | OD 180 mm          | <b>1523</b>          |
|            | OD 200 mm          | <b>2063</b>          |
|            | OD 225 mm          | <b>2926</b>          |
|            | OD 250 mm          | <b>4011</b>          |
|            | OD 280 mm          | <b>5783</b>          |
|            | OD 315 mm          | <b>7998</b>          |
|            | OD 355 mm          | <b>11087</b>         |
|            | OD 400 mm          | <b>16723</b>         |

|           |   |                  |
|-----------|---|------------------|
|           | OD 450 mm   | 24586            |
|           | OD 500 mm   | 33332            |
| <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 DVGMK/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"   | 797              |
|           | 63 x3/4"  | 797              |
|           | 63 x1"  | 797              |
|           | 63 x1/2"  | 797              |
|           | 75 x1/2"  | 797              |
|           | 75 x3/4"  | 797              |
|           | 75 x1   | 797              |
|           | 90 x1/2"  | 797              |
|           | 90 x3/4"  | 797              |
|           | 90 x1"  | 797              |
|           | 90 x 1 1/4"   | 1034             |
|           | 90 x 1 1/2"   | 1034             |
|           | 90 x2"  | 1034             |
|           | 110x1/2"  | 797              |
|           | 110 x3/4"   | 797              |
|           | 110 x1"   | 797              |
|           | 110 x 1 1/4"  | 1034             |
|           | 110x1 1/2"  | 1034             |
|           | 110x2"  | 1034             |
|           | 160 x1/2"   | 797              |
|           | 160 x3/4"   | 797              |
|           | 160 x1"   | 797              |
|           | 160 x 1 1/4"  | 1130             |
|           | 160 x 1 1/2"  | 1130             |
|           | 160 x 2"  | 1130             |
|           | 200 x 1/2"  | 1126             |

|              |             |
|--------------|-------------|
| 200 x 3/4"   | <b>1126</b> |
| 200 x 1"     | <b>1126</b> |
| 200 x 1 1/4" | <b>1628</b> |
| 200 x 2"     | <b>1628</b> |
| 250 x 1/2"   | <b>1126</b> |
| 250 x 3/4"   | <b>1126</b> |
| 250 x 1"     | <b>1126</b> |
| 250 x 1 1/4" | <b>1628</b> |
| 250 x 1 1/2" | <b>1628</b> |
| 250 x 2"     | <b>1628</b> |
| 315 x 1/2"   | <b>1341</b> |
| 315 x 3/4"   | <b>1341</b> |
| 315 x 1"     | <b>1341</b> |
| 315 x 1 1/4" | <b>1820</b> |
| 315 x 1 1/2" | <b>1820</b> |
| 315 x 2"     | <b>1820</b> |

**18. SoRATES FOR PVC PIPES FOR THE YEAR 2013-14**

| 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. |                         |                         |                       |                        |
|         | DIA IN MM  | Rate/Metre              | Rs.                     | Rs.                   | Rs.                    |
|         | 20   |                         |                         |                       | 13                     |
|         | 25   |                         |                         |                       | 19                     |
|         | 32   |                         |                         |                       | 30                     |
|         | 40   |                         |                         | 28                    | 47                     |
|         | 50   |                         |                         | 44                    | 72                     |
|         | 63   |                         | 48                      | 69                    | 105                    |
|         | 75   |                         | 70                      | 95                    | 151                    |
|         | 90   | 63                      | 96                      | 137                   | 213                    |
|         | 110  | 95                      | 139                     | 198                   | 319                    |
|         | 125  | 124                     | 181                     | 253                   | 417                    |
|         | 140  | 151                     | 226                     | 327                   | 516                    |
|         | 160  | 201                     | 298                     | 422                   | 678                    |
|         | 180  | 252                     | 381                     | 544                   | 867                    |
|         | 200  | 320                     | 463                     | 662                   | 1056                   |
|         | 225  | 413                     | 612                     | 885                   | 1408                   |
|         | 250  | 497                     | 714                     | 1090                  | 1718                   |
|         | 280  | 638                     | 935                     | 1376                  | 2175                   |
|         | 315  | 804                     | 1183                    | 1729                  | 2744                   |
|         | 355  |                         | 1666                    | 2417                  |                        |
|         | 400  |                         | 2100                    | 3076                  |                        |

**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.65,325/- 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.

**19. SoRATES FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2013-14**

| <b>Code No</b> | <b>Description</b>   |                               |
|----------------|--|-------------------------------|
| <b>1</b>       | <b>2</b>   | <b>4</b>                      |
|                | <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 system 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>Proposed Rates 2013-14</b> |
|                | <b>Rate per Meter</b>  | <b>Rs.</b>                    |
|                | <b>Pipe Series (S25)</b>   |                               |
|                | OD 160 mm  | <b>263</b>                    |
|                | OD 200 mm  | <b>401</b>                    |
|                | OD 250mm   | <b>621</b>                    |
|                | OD 315 mm  | <b>980</b>                    |
|                | <b>Pipe Series (S20)</b>   |                               |
|                | OD 125 mm  | <b>204</b>                    |
|                | OD 160 mm  | <b>326</b>                    |
|                | OD 200 mm  | <b>495</b>                    |
|                | OD 250mm   | <b>772</b>                    |
|                | OD 315 mm  | <b>1212</b>                   |
|                | <b>Pipe Series (S16.5)</b>   |                               |
|                | OD 110 mm  | <b>180</b>                    |
|                | OD 125 mm  | <b>242</b>                    |
|                | OD 160 mm  | <b>378</b>                    |
|                | OD 200 mm  | <b>589</b>                    |
|                | OD 250mm   | <b>912</b>                    |
|                | OD 315 mm  | <b>1440</b>                   |

**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.65,325/- 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. SoRATES FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2013-14**

| <b>Code No</b> | <b>Description</b>   |                               |
|----------------|--|-------------------------------|
| <b>1</b>       | <b>2</b>   | <b>4</b>                      |
|                | <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 <u>Elastomeric Seal Ring Joints (Ringtite PVC Pipes)</u>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>Proposed Rates 2013-14</b> |
|                | <b>Rate per Meter</b>  | <b>Rs.</b>                    |
|                | <b>Pipe Series (S25)</b>   |                               |
|                | OD 160 mm  | <b>282</b>                    |
|                | OD 200 mm  | <b>427</b>                    |
|                | OD 250mm   | <b>664</b>                    |
|                | OD 315 mm  | <b>1045</b>                   |
|                | <b>Pipe Series (S20)</b>   |                               |
|                | OD 125 mm  | <b>220</b>                    |
|                | OD 160 mm  | <b>346</b>                    |
|                | OD 200 mm  | <b>526</b>                    |
|                | OD 250mm   | <b>821</b>                    |
|                | OD 315 mm  | <b>1288</b>                   |
|                | <b>Pipe Series (S16.5)</b>   |                               |
|                | OD 110 mm  | <b>192</b>                    |
|                | OD 125 mm  | <b>258</b>                    |
|                | OD 160 mm  | <b>404</b>                    |
|                | OD 200 mm  | <b>623</b>                    |
|                | OD 250mm   | <b>968</b>                    |
|                | OD 315 mm  | <b>1528</b>                   |

**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.65,325/- 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.

## 21. SoRATES FOR CENTRIFUGALLY CAST (SPUN)IRON PRESSURE PIPES

| Sl. No.  | Description  | Unit        | S.S. Rates for 2013-14 |                     |                     |
|----------|--|-------------|------------------------|---------------------|---------------------|
|          |  |             | 4                      | 5                   | 6                   |
| <b>I</b> | <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         | <b>780</b>             | <b>846</b>          | <b>909</b>          |
|          | 100  | Rmt         | <b>950</b>             | <b>1043</b>         | <b>1115</b>         |
|          | 125  | Rmt         | <b>1198</b>            | <b>1308</b>         | <b>1408</b>         |
|          | 150  | Rmt         | <b>1452</b>            | <b>1591</b>         | <b>1715</b>         |
|          | 200  | Rmt         | <b>2120</b>            | <b>2300</b>         | <b>2490</b>         |
|          | 250  | Rmt         | <b>2856</b>            | <b>3111</b>         | <b>3366</b>         |
|          | 300  | Rmt         | <b>3684</b>            | <b>4029</b>         | <b>4364</b>         |
|          | 350  | Rmt         | <b>4710</b>            | <b>5110</b>         | <b>5542</b>         |
|          | 400  | Rmt         | <b>5734</b>            | <b>6266</b>         | <b>6763</b>         |
|          | 450  | Rmt         | <b>6938</b>            | <b>7623</b>         | <b>8222</b>         |
|          | 500  | Rmt         | <b>8203</b>            | <b>8937</b>         | <b>9668</b>         |
|          | 600  | Rmt         | <b>10850</b>           | <b>11845</b>        | <b>12829</b>        |
|          | 700  | Rmt         | <b>14276</b>           | <b>15596</b>        | <b>16851</b>        |
|          | 750  | Rmt         | <b>15989</b>           | <b>17482</b>        | <b>18964</b>        |
|          | 800  | Rmt         | <b>17898</b>           | <b>19501</b>        | <b>21096</b>        |
|          | 900  | Rmt         | <b>21810</b>           | <b>27149</b>        | <b>25784</b>        |
|          | 1000   | Rmt         | <b>26202</b>           | <b>28621</b>        | <b>30936</b>        |
|          | <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>            |
|          | 80   | Per KM/RMT  | <b>0.22</b>            | <b>0.22</b>         | <b>0.22</b>         |
|          | 100  | Per KM/RMT  | <b>0.22</b>            | <b>0.22</b>         | <b>0.22</b>         |
|          | 125  | Per KM/RMT  | <b>0.33</b>            | <b>0.33</b>         | <b>0.33</b>         |
|          | 150  | Per KM/RMT  | <b>0.33</b>            | <b>0.33</b>         | <b>0.33</b>         |
|          | 200  | Per KM/RMT  | <b>0.55</b>            | <b>0.55</b>         | <b>0.55</b>         |

|      |            |  |             |             |             |
|------|------------|--|-------------|-------------|-------------|
| 250  | Per KM/RMT |  | <b>0.66</b> | <b>0.66</b> | <b>0.66</b> |
| 300  | Per KM/RMT |  | <b>0.88</b> | <b>0.99</b> | <b>0.99</b> |
| 350  | Per KM/RMT |  | <b>1.21</b> | <b>1.21</b> | <b>1.32</b> |
| 400  | Per KM/RMT |  | <b>1.43</b> | <b>1.43</b> | <b>1.54</b> |
| 450  | Per KM/RMT |  | <b>1.65</b> | <b>1.76</b> | <b>1.87</b> |
| 500  | Per KM/RMT |  | <b>1.98</b> | <b>2.09</b> | <b>2.20</b> |
| 600  | Per KM/RMT |  | <b>1.98</b> | <b>2.09</b> | <b>2.20</b> |
| 700  | Per KM/RMT |  | <b>1.98</b> | <b>2.09</b> | <b>2.20</b> |
| 750  | Per KM/RMT |  | <b>3.30</b> | <b>3.52</b> | <b>3.74</b> |
| 800  | Per KM/RMT |  | <b>5.61</b> | <b>5.61</b> | <b>5.61</b> |
| 900  | Per KM/RMT |  | <b>5.61</b> | <b>5.61</b> | <b>5.61</b> |
| 1000 | Per KM/RMT |  | <b>5.61</b> | <b>5.61</b> | <b>5.61</b> |

**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. 27,500/-

**22.S o RATES FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR 2013-14**

| Sl. No.  | Description  | Unit       | S.S. Rate for 2013-14 |              |
|----------|--|------------|-----------------------|--------------|
|          |  |            | 4                     | 5            |
| <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>SOCKET SPIGOT ENDS</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 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>K7</b>             | <b>K9</b>    |
|          | 100  | Rmt        | <b>868</b>            | <b>1033</b>  |
|          | 150  | Rmt        | <b>1203</b>           | <b>1528</b>  |
|          | 200  | Rmt        | <b>1676</b>           | <b>2040</b>  |
|          | 250  | Rmt        | <b>2247</b>           | <b>2677</b>  |
|          | 300  | Rmt        | <b>2886</b>           | <b>3391</b>  |
|          | 350  | Rmt        | <b>3630</b>           | <b>4227</b>  |
|          | 400  | Rmt        | <b>4405</b>           | <b>5095</b>  |
|          | 450  | Rmt        | <b>5297</b>           | <b>6096</b>  |
|          | 500  | Rmt        | <b>6312</b>           | <b>7092</b>  |
|          | 600  | Rmt        | <b>8398</b>           | <b>9354</b>  |
|          | 700  | Rmt        | <b>10864</b>          | <b>12089</b> |
|          | 750  | Rmt        | <b>12171</b>          | <b>13567</b> |
|          | 800  | Rmt        | <b>13453</b>          | <b>14970</b> |
|          | 900  | Rmt        | <b>16413</b>          | <b>18257</b> |
|          | 1000   | Rmt        | <b>19457</b>          | <b>21645</b> |
|          | 1100   | Rmt        |                       | <b>23159</b> |
|          | 1200   | Rmt        |                       | <b>27073</b> |
| <b>2</b> | CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE <b>WITH PLAIN ENDS</b> CONFORMING TO I.S.:8329/2000IN 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>K7</b>             | <b>K9</b>    |
|          | 100  | Rmt        | <b>741</b>            | <b>949</b>   |
|          | 150  | Rmt        | <b>1068</b>           | <b>1393</b>  |
|          | 200  | Rmt        | <b>1514</b>           | <b>1892</b>  |
|          | 250  | Rmt        | <b>1970</b>           | <b>2512</b>  |
|          | 300  | Rmt        | <b>2592</b>           | <b>3178</b>  |
|          | 350  | Rmt        | <b>3254</b>           | <b>3949</b>  |
|          | 400  | Rmt        | <b>3937</b>           | <b>4759</b>  |
|          | 450  | Rmt        | <b>4714</b>           | <b>5624</b>  |
|          | 500  | Rmt        | <b>5610</b>           | <b>6712</b>  |
|          | 600  | Rmt        | <b>7429</b>           | <b>8664</b>  |
|          | 700  | Rmt        | <b>9832</b>           | <b>10990</b> |

|          |  |      |                       |                       |
|----------|--|------|-----------------------|-----------------------|
|          | 750  | Rmt  | <b>10996</b>          | <b>12314</b>          |
|          | 800  | Rmt  | <b>12162</b>          | <b>13596</b>          |
|          | 900  | Rmt  | <b>14706</b>          | <b>16441</b>          |
|          | 1000   | Rmt  | <b>17483</b>          | <b>19545</b>          |
|          | 1100   | Rmt  |                       | <b>20810</b>          |
|          | 1200   | Rmt  |                       | <b>24222</b>          |
| <b>3</b> | <b>CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIES WITH <u>FLANGED (WELDED) ENDS</u> 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.RATESAREEX-FACTORY, EXCLUDING TRANSPORTATION, TAXES &amp; DUTIES.</b> |      |                       |                       |
|          | <b>Nominal Dia in mm</b>   |      | <b>1.0 Mt. Length</b> | <b>2.0 Mt. Length</b> |
|          | 100  | Each | <b>3612</b>           | <b>4712</b>           |
|          | 150  | Each | <b>5109</b>           | <b>6710</b>           |
|          | 200  | Each | <b>6763</b>           | <b>8948</b>           |
|          | 250  | Each | <b>8832</b>           | <b>11748</b>          |
|          | 300  | Each | <b>11047</b>          | <b>14730</b>          |
|          | 350  | Each | <b>17290</b>          | <b>21863</b>          |
|          | 400  | Each | <b>21396</b>          | <b>26920</b>          |
|          | 450  | Each | <b>25838</b>          | <b>32355</b>          |
|          | 500  | Each | <b>31302</b>          | <b>38953</b>          |
|          | 600  | Each | <b>44305</b>          | <b>54369</b>          |
|          | 700  | Each | <b>52830</b>          | <b>65599</b>          |
|          | 800  | Each | <b>65134</b>          | <b>80931</b>          |
|          | 900  | Each | <b>77633</b>          | <b>96733</b>          |
|          | 1000   | Each | <b>99623</b>          | <b>122328</b>         |
|          |  |      | <b>3.0 Mt. Length</b> | <b>4.0 Mt. Length</b> |
|          | 100  | Each | <b>5810</b>           | <b>6377</b>           |
|          | 150  | Each | <b>8313</b>           | <b>9255</b>           |
|          | 200  | Each | <b>11136</b>          | <b>12561</b>          |
|          | 250  | Each | <b>14664</b>          | <b>16597</b>          |
|          | 300  | Each | <b>18409</b>          | <b>20953</b>          |
|          | 350  | Each | <b>26438</b>          | <b>29046</b>          |
|          | 400  | Each | <b>32445</b>          | <b>35177</b>          |
|          | 450  | Each | <b>38870</b>          | <b>42008</b>          |
|          | 500  | Each | <b>46606</b>          | <b>50206</b>          |
|          | 600  | Each | <b>64431</b>          | <b>68731</b>          |
|          | 700  | Each | <b>78370</b>          | <b>84176</b>          |
|          | 800  | Each | <b>96724</b>          | <b>103984</b>         |
|          | 900  | Each | <b>115834</b>         | <b>124815</b>         |
|          | 1000   | Each | <b>145034</b>         | <b>154668</b>         |
|          |  |      | <b>5.0 Mt. Length</b> |                       |

|          |   |             |               |             |                                    |
|----------|---|-------------|---------------|-------------|------------------------------------|
|          | 100   | Each        | <b>7452</b>   |             |                                    |
|          | 150   | Each        | <b>10846</b>  |             |                                    |
|          | 200   | Each        | <b>14747</b>  |             |                                    |
|          | 250   | Each        | <b>19509</b>  |             |                                    |
|          | 300   | Each        | <b>24642</b>  |             |                                    |
|          | 350   | Each        | <b>33618</b>  |             |                                    |
|          | 400   | Each        | <b>40695</b>  |             |                                    |
|          | 450   | Each        | <b>48520</b>  |             |                                    |
|          | 500   | Each        | <b>57845</b>  |             |                                    |
|          | 600   | Each        | <b>78771</b>  |             |                                    |
|          | 700   | Each        | <b>96923</b>  |             |                                    |
|          | 800   | Each        | <b>119749</b> |             |                                    |
|          | 900   | Each        | <b>148072</b> |             |                                    |
|          | 1000  | Each        | <b>177330</b> |             |                                    |
| <b>4</b> | <b>Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, unloading at site and stacking for the following sizes</b> |             | <b>Class</b>  |             | <b>WELDED DOUBLE FLANGED PIPES</b> |
|          | <b>SIZE IN MM</b>   | <b>UNIT</b> | <b>K7</b>     | <b>K9</b>   | <b>K9</b>                          |
|          | 100   | Per KM/RMT  | <b>0.22</b>   | <b>0.22</b> | <b>0.33</b>                        |
|          | 150   | Per KM/RMT  | <b>0.33</b>   | <b>0.33</b> | <b>0.44</b>                        |
|          | 200   | Per KM/RMT  | <b>0.33</b>   | <b>0.44</b> | <b>0.66</b>                        |
|          | 250   | Per KM/RMT  | <b>0.44</b>   | <b>0.55</b> | <b>0.88</b>                        |
|          | 300   | Per KM/RMT  | <b>0.66</b>   | <b>0.66</b> | <b>1.10</b>                        |
|          | 350   | Per KM/RMT  | <b>0.77</b>   | <b>0.88</b> | <b>1.32</b>                        |
|          | 400   | Per KM/RMT  | <b>0.88</b>   | <b>0.99</b> | <b>1.54</b>                        |
|          | 450   | Per KM/RMT  | <b>1.10</b>   | <b>1.21</b> | <b>1.87</b>                        |
|          | 500   | Per KM/RMT  | <b>1.32</b>   | <b>1.43</b> | <b>2.20</b>                        |
|          | 600   | Per KM/RMT  | <b>1.87</b>   | <b>1.87</b> | <b>2.86</b>                        |
|          | 700   | Per KM/RMT  | <b>2.75</b>   | <b>2.75</b> | <b>4.18</b>                        |
|          | 750   | Per KM/RMT  | <b>3.30</b>   | <b>3.30</b> | <b>5.06</b>                        |
|          | 800   | Per KM/RMT  | <b>5.61</b>   | <b>5.61</b> | <b>8.36</b>                        |
|          | 900   | Per KM/RMT  | <b>5.61</b>   | <b>5.61</b> | <b>8.36</b>                        |
|          | 1000  | Per KM/RMT  | <b>5.61</b>   | <b>5.61</b> | <b>8.36</b>                        |
|          | 1100  | Per KM/RMT  | <b>5.61</b>   | <b>5.61</b> | <b>-</b>                           |
|          | 1200  | Per KM/RMT  | <b>6.00</b>   | <b>6.00</b> |                                    |
| <b>5</b> | <b>Supply and Delivery of Polyethylene (PE)Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.</b>                               |             |               |             |                                    |
|          | <b>DIA IN MM</b>  |             |               |             |                                    |
|          | 100 MM DIA  |             |               | <b>RMT</b>  | <b>41.00</b>                       |
|          | 150 MM DIA  |             |               | <b>RMT</b>  | <b>50.00</b>                       |
|          | 200 MM DIA  |             |               | <b>RMT</b>  | <b>64.00</b>                       |
|          | 250 MM DIA  |             |               | <b>RMT</b>  | <b>74.00</b>                       |
|          | 300 MM DIA  |             |               | <b>RMT</b>  | <b>81.00</b>                       |

|          |   |  |            |               |
|----------|---|--|------------|---------------|
|          | 350 MM DIA  |  | <b>RMT</b> | <b>91.00</b>  |
|          | 400 MM DIA  |  | <b>RMT</b> | <b>127.00</b> |
|          | 450 MM DIA  |  | <b>RMT</b> | <b>127.00</b> |
|          | 500 MM DIA  |  | <b>RMT</b> | <b>154.00</b> |
|          | 600 MM DIA  |  | <b>RMT</b> | <b>154.00</b> |
|          | 700 MM DIA  |  | <b>RMT</b> | <b>200.00</b> |
|          | 750 MM DIA  |  | <b>RMT</b> | <b>200.00</b> |
|          | 800 MM DIA  |  | <b>RMT</b> | <b>200.00</b> |
|          | 900 MM DIA  |  | <b>RMT</b> | <b>227.00</b> |
|          | 1000 MM DIA   |  | <b>RMT</b> | <b>227.00</b> |
|          | 1100 MM DIA   |  | <b>RMT</b> | <b>227.00</b> |
| <b>6</b> | <b>Additional price for HAC(high alumina cement motar lining)</b> |  |            |               |
|          | <b>DIA IN MM</b>  |  |            |               |
|          | 100 MM DIA  |  | <b>RMT</b> | <b>50.00</b>  |
|          | 150 MM DIA  |  | <b>RMT</b> | <b>66.00</b>  |
|          | 200 MM DIA  |  | <b>RMT</b> | <b>81.00</b>  |
|          | 250 MM DIA  |  | <b>RMT</b> | <b>96.00</b>  |
|          | 300 MM DIA  |  | <b>RMT</b> | <b>104.00</b> |
|          | 350 MM DIA  |  | <b>RMT</b> | <b>118.00</b> |
|          | 400 MM DIA  |  | <b>RMT</b> | <b>162.00</b> |
|          | 450 MM DIA  |  | <b>RMT</b> | <b>162.00</b> |
|          | 500 MM DIA  |  | <b>RMT</b> | <b>200.00</b> |
|          | 600 MM DIA  |  | <b>RMT</b> | <b>200.00</b> |
|          | 700 MM DIA  |  | <b>RMT</b> | <b>256.00</b> |
|          | 750 MM DIA  |  | <b>RMT</b> | <b>256.00</b> |
|          | 800 MM DIA  |  | <b>RMT</b> | <b>256.00</b> |
|          | 900 MM DIA  |  | <b>RMT</b> | <b>293.00</b> |
|          | 1000 MM DIA   |  | <b>RMT</b> | <b>293.00</b> |
|          | 1100 MM DIA   |  | <b>RMT</b> | <b>293.00</b> |

**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 SoR =Rs.27,500/-

**23. SoRATES FOR DUCTILE IRON FITTINGS FOR THE YEAR 2013-14**

| <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>       | DI double socket branch flange Tee  |             |               |
|                | Upto 500 x 500 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 500 x 500 mm dia  | Kg          | <b>103.00</b> |
| <b>II</b>      | DI All Socket Tees  |             |               |
|                | Upto 300 x 300 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 300 x 300 mm dia  | Kg          | <b>103.00</b> |
| <b>III</b>     | DI Double socket Tapers (Reducer)   |             |               |
|                | Upto 500 x 450 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 500 x 450 mm dia  | Kg          | <b>103.00</b> |
| <b>IV</b>      | DI Flanged Socket   |             |               |
|                | Upto 500 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 500 mm dia  | Kg          | <b>103.00</b> |
| <b>V</b>       | DI Flanged Spigot   |             |               |
|                | Upto 500 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 500 mm dia  | Kg          | <b>103.00</b> |
| <b>VI</b>      | DI Double Socket Duck Foot Bend   |             |               |
|                | Upto 300mm dia  | Kg          | <b>92.00</b>  |
|                | Above 300mm dia   | Kg          | <b>103.00</b> |
| <b>VII</b>     | DI Double Flange Duck/Foot bend   |             |               |
|                | Upto 300 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 300 mm dia  | Kg          | <b>103.00</b> |
| <b>VIII</b>    | DI All socket Cross.  |             |               |
|                | Upto 300 x 300 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 300 x 300 mm dia  | Kg          | <b>103.00</b> |
| <b>IX</b>      | DI All Flange Tee   |             |               |
|                | Upto 500 x 500 mm dia   | Kg          | <b>92.00</b>  |
|                | Above 500 x 500 mm dia  | Kg          | <b>103.00</b> |
| <b>X</b>       | DI All Flange Cross   |             |               |



|             |                          |    |               |
|-------------|--------------------------|----|---------------|
|             | Upto 300 x 300 mm dia    | Kg | <b>92.00</b>  |
|             | Above 300 x 300 mm dia   | Kg | <b>103.00</b> |
|             |                          |    |               |
| <b>XI</b>   | DI Double Flange Reducer |    |               |
|             | Upto 500 x 450 mm dia    | Kg | <b>92.00</b>  |
|             | Above 500 x 450 mm dia   | Kg | <b>103.00</b> |
|             |                          |    |               |
| <b>XII</b>  | Blank Flange             |    |               |
|             | Upto 500 mm dia          | Kg | <b>92.00</b>  |
|             | Above 500 mm dia         | Kg | <b>103.00</b> |
|             |                          |    |               |
| <b>XIII</b> | Mechanical Joints        |    |               |
|             | Upto 300 mm dia          | Kg | <b>92.00</b>  |
|             | Above 300 mm dia         | Kg | <b>103.00</b> |
|             |                          |    |               |
| <b>XIV</b>  | DI Double Socket Bends   |    |               |
|             | Upto 500mm dia           | Kg | <b>92.00</b>  |
|             | Above 500 mm dia         | Kg | <b>103.00</b> |
|             |                          |    |               |
| <b>XV</b>   | DI Double Flanged Bends  |    |               |
|             | Upto 500mm dia           | Kg | <b>92.00</b>  |
|             | Above 500 mm dia         | Kg | <b>103.00</b> |
|             |                          |    |               |

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

**24. SoRATES FOR RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES**

| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>S.S Rates For 2013-14</b> |
|----------------|--|-------------|------------------------------|
| <b>1</b>       | <b>2</b>   | <b>3</b>    | <b>4</b>                     |
| <b>1</b>       | <b>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 &amp; STACKING BUT EXCLUDING CENTRAL EXCISE DUTY, SALES TAX, OCTROI AND OTHER GOVT. LEVIES ETC., COMPLETE.</b> |             |                              |
|                | 80mm dia   | Each        | <b>57</b>                    |
|                | 100mm dia  | Each        | <b>89</b>                    |
|                | 125mm dia  | Each        | <b>106</b>                   |
|                | 150mm dia  | Each        | <b>130</b>                   |
|                | 200mm dia  | Each        | <b>158</b>                   |
|                | 250mm dia  | Each        | <b>176</b>                   |
|                | 300mm dia  | Each        | <b>268</b>                   |
|                | 350mm dia  | Each        | <b>340</b>                   |
|                | 400mm dia  | Each        | <b>371</b>                   |
|                | 450mm dia  | Each        | <b>399</b>                   |
|                | 500mm dia  | Each        | <b>554</b>                   |
|                | 600mm dia  | Each        | <b>656</b>                   |
|                | 700mm dia  | Each        | <b>872</b>                   |
|                | 750mm dia  | Each        | <b>968</b>                   |
|                | 800mm dia  | Each        | <b>1161</b>                  |
|                | 900mm dia  | Each        | <b>1401</b>                  |
|                | 1000mm dia   | Each        | <b>1533</b>                  |

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

**25.SoRATES FOR CI PIPES AND SPECIALS FOR THE YEAR 2013-14**

| Sl. No. | Description  | Quality or sort   | Rate/ Kg including packing, forwarding, transit risk and delivery any where in A.P. for the year 2013-14. Rs. |
|---------|--|---|---|
| 1       | 2  | 3   | 4   |
|         | <b>MANUFACTURE, SUPPLY AND DELIVERY OF CAST IRON PIPES AND FITTINGS (Spls.) 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> | <b>67.20</b>  |

**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.27,500/- per M.T.(excluding CED, Tax & Fright)

**Coke :** Rs.37,000/- 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.

**26. So RATES FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2013-14**  
**(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</b>  |                        |                        |                        |                        |   |
|         | <b>Rate/Each</b>  | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             |   |
|         | 150   | 66929                  | 78125                  | 82741                  | 91017                  |   |
|         | 200   | 69921                  | 80408                  | 86440                  | 95082                  |   |
|         | 250   | 78890                  | 90723                  | 97528                  | 107281                 |   |
|         | 300   | 88781                  | 102098                 | 109758                 | 120731                 |   |
| 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</b>  | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>             | <b>Rs.</b>                                  |
|         | 350   | 94560                  | 108743                 | 116899                 | 128588                 | 8193  |
|         | 400   | 104522                 | 120199                 | 129214                 | 142141                 | 9879  |
|         | 450   | 121567                 | 139803                 | 150288                 | 165317                 | 11806                                       |
|         | 500   | 140501                 | 161574                 | 173693                 | 191063                 | 12771                                       |
|         | 525/550   | 150914                 | 171560                 | 188951                 | 207846                 | 16505                                       |
|         | 600   | 168974                 | 194319                 | 208893                 | 229783                 | 23545                                       |
|         | 650   | 189147                 | 208064                 | 236496                 | 255291                 | 26626                                       |
|         | 700   | 220473                 | 242640                 | 275651                 | 297698                 | 31806                                       |
|         | 750   | 244206                 | 268661                 | 305288                 | 329744                 | 35709                                       |
|         | 800   | 297486                 | 342111                 | 367767                 | 404541                 | 40239                                       |

|          |  |                                    |                |                |                |               |
|----------|--|------------------------------------|----------------|----------------|----------------|---------------|
|          | 900  | <b>353581</b>                      | <b>406618</b>  | <b>428896</b>  | <b>480827</b>  | <b>48673</b>  |
|          | 1000   | <b>428896</b>                      | <b>428896</b>  | <b>428896</b>  | <b>595998</b>  | <b>61804</b>  |
|          | 1050   | <b>433185</b>                      | <b>433185</b>  | <b>433185</b>  | <b>627538</b>  | <b>64277</b>  |
|          | 1100   | <b>546433</b>                      | <b>619611</b>  | <b>675544</b>  | <b>743100</b>  | <b>71564</b>  |
|          | 1200   | <b>657681</b>                      | <b>723464</b>  | <b>824180</b>  | <b>887913</b>  | <b>80960</b>  |
|          | 1400   | <b>986522</b>                      | <b>1085193</b> | <b>1236270</b> | <b>1331866</b> | <b>113850</b> |
|          | 1500   | <b>1149467</b>                     | <b>1264402</b> | <b>1436801</b> | <b>1551618</b> | <b>116128</b> |
|          | 1600   | <b>1172455</b>                     | <b>1289688</b> | <b>1465538</b> | <b>1582648</b> | <b>121441</b> |
| <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  | <b>61203</b>                       | <b>70385</b>   | <b>77422</b>   | <b>85161</b>   |               |
|          | 150  | <b>93009</b>                       | <b>106960</b>  | <b>117655</b>  | <b>129421</b>  |               |
|          | 200  | <b>99273</b>                       | <b>114163</b>  | <b>125581</b>  | <b>138138</b>  |               |
| <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.

**27. SoRATES FOR CAST STEEL VALVES FOR THE YEAR 2013-14.**

| Sl.No. | Description  | TEST PRESSURES  |  |                                     |           |
|--------|--|---|--|-------------------------------------|-----------|
|        |  | 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 150                           | Class 300 |
|        | DIA IN MM  | Rs.   | Rs.  | Rs.                                 |           |
|        | 40   | 5456  | 10912  |                                     |           |
|        | 50   | 8990  | 16367  |                                     |           |
|        | 65   | 11251   | 20459  |                                     |           |
|        | 80   | 13494   | 24551  |                                     |           |
|        | 100  | 17997   | 32734  |                                     |           |
|        | 125  | 23081   | 41967  |                                     |           |
|        | 150  | 27004   | 49101  |                                     |           |
|        | 200  | 43613   | 88656  | 53379                               | 97532     |
|        | 250  | 61385   | 139540   | 71150                               | 148418    |
|        | 300  | 77543   | 176261   | 87308                               | 185138    |
|        | 350  | 103400  | 235015   | 116716                              | 247121    |
|        | 400  | 210045  | 477374   | 223361                              | 489480    |
|        | 450  | 235434  | 524587   | 248751                              | 536693    |
|        | 500  | 276982  | 629504   | 290298                              | 641610    |
|        | 600  | 316220  | 717635   | 329537                              | 729741    |
|        | 700  | 611668  |  | 624984                              |           |
|        | 750  | 657831  |  | 676474                              |           |
|        | 800  | 761699  |  | 780342                              |           |
|        | 900  | 900191  |  | 918834                              |           |
|        | 1000   | 1154091   |  | 1172733                             |           |
|        | 1100   | 1246418   |  | 1265061                             |           |

|   |  |                      |        |         |  |
|---|--|----------------------|--------|---------|--|
|   | 1200   | 1407990              |        | 1426633 |  |
| 2 | <b>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 &amp; Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete</b> |                      |        |         |  |
|   | <b>DIA IN MM</b>   | PN-20                | PN-30  |         |  |
|   |  | <b>Rate/Each Rs.</b> |        |         |  |
|   | 40   | 5424                 | 9863   |         |  |
|   | 50   | 8071                 | 14688  |         |  |
|   | 65   | 10087                | 18361  |         |  |
|   | 80   | 12105                | 22033  |         |  |
|   | 100  | 16609                | 29378  |         |  |
|   | 125  | 20774                | 37771  |         |  |
|   | 150  | 22841                | 41547  |         |  |
|   | 200  | 34623                | 75540  |         |  |
|   | 250  | 48472                | 125901 |         |  |
|   | 300  | 69245                | 157376 |         |  |
|   | 350  | 92328                | 209835 |         |  |
|   | 400  | 189271               | 430161 |         |  |
|   | 450  | 212353               | 482620 |         |  |
|   | 500  | 249284               | 566554 |         |  |
|   | 600  | 288522               | 655732 |         |  |
| 3 | <b>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 &amp; Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.</b>                   | PN-20                |        |         |  |
|   |  | Rate/Each            |        |         |  |
|   | <b>DIA IN MM</b>   | Rs.                  |        |         |  |
|   | 500  | 419669               |        |         |  |
|   | 600  | 524587               |        |         |  |
|   | 700  | 629504               |        |         |  |
|   | 750  | 776389               |        |         |  |

|   |  |                                    |                |  |  |
|---|--|------------------------------------|----------------|--|--|
|   | 800  | <b>1154091</b>                     |                |  |  |
|   | 900  | <b>1384909</b>                     |                |  |  |
|   | 1000   | <b>1510809</b>                     |                |  |  |
|   | 1100   | <b>1783595</b>                     |                |  |  |
|   | 1200   | <b>1804578</b>                     |                |  |  |
| 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<br/>Rate/Each</b>   | PN-<br>1.0/1.6                     | PN-2.5         |  |  |
|   | 300  | <b>80099</b>                       | <b>99850</b>   |  |  |
|   | 350  | <b>107750</b>                      | <b>135401</b>  |  |  |
|   | 400  | <b>129476</b>                      | <b>167879</b>  |  |  |
|   | 450  | <b>156907</b>                      | <b>198602</b>  |  |  |
|   | 500  | <b>178852</b>                      | <b>228228</b>  |  |  |
|   | 600  | <b>208478</b>                      | <b>267729</b>  |  |  |
|   | 700  | <b>326981</b>                      | <b>405983</b>  |  |  |
|   | 750  | <b>405983</b>                      | <b>504735</b>  |  |  |
|   | 800  | <b>445484</b>                      | <b>554111</b>  |  |  |
|   | 900  | <b>504735</b>                      | <b>633113</b>  |  |  |
|   | 1000   | <b>800993</b>                      | <b>998498</b>  |  |  |
|   | 1100   | <b>998498</b>                      | <b>1294755</b> |  |  |
|   | 1200   | <b>1196003</b>                     | <b>1294755</b> |  |  |
|   | 1300   | <b>1601985</b>                     | <b>1788518</b> |  |  |
|   | 1400   | <b>1689765</b>                     | <b>1887270</b> |  |  |
|   | 1500   | <b>1788518</b>                     | <b>1986023</b> |  |  |
|   | 1600   | <b>2084775</b>                     | <b>2381033</b> |  |  |
|   | 1800   | <b>2578538</b>                     | <b>2776043</b> |  |  |
|   | 2000   | <b>3566063</b>                     | <b>3862320</b> |  |  |
| 5 | <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.



## 28. SoRATES FOR DI D/F VALVES FOR THE YEAR 2013-14.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 <u>Air Valve</u> 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 Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per IS:1538.   |               |        |        |   |
|         | DIA IN MM  | PN 10         | PN 16  | PN 25  |   |
|         | 25 (Screwed End)   | 8190          | 8190   |        |   |
|         | 32 (Screwed End)   | 16290         | 16290  |        |   |
|         | 40 (Screwed End)   | 17100         | 17100  |        |   |
|         | 50   | 29421         | 29421  | 37856  |   |
|         | 80   | 39250         | 39250  | 39250  |   |
|         | 100  | 45825         | 45825  | 52698  |   |
|         | 150  | 55787         | 55787  | 63756  |   |
|         | 200  | 61100         | 61100  | 71062  |   |
|         | 300  | 99000         | 99000  | 109000 |   |
| 2       | Manufacture, Supply and delivery of DI D/F <u>Gate Valves</u> (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   | 7043          | 7043   | 11904  |   |
|         | 80   | 9020          | 9020   | 14676  |   |
|         | 100  | 11898         | 11898  | 16640  |   |
|         | 150  | 18734         | 18734  | 27755  |   |
|         | 200  | 31131         | 31131  | 46814  |   |
|         | 250  | 43117         | 43117  | 69534  |   |
|         | 300  | 65165         | 65165  | 112786 |   |
|         | 350  | 197300        | 197300 | 330048 |   |
|         | 400  | 206937        | 206937 | 335704 |   |
|         | 450 With By-pass & Gear  | 356020        | 356020 | 669213 |   |
|         | 500 With By-pass & Gear  | 378070        | 378070 | 710659 |   |
|         | 600 With By-pass & Gear  | 486846        | 486846 | 915124 |   |

|   |  |                     |                     |                     |                     |
|---|--|---------------------|---------------------|---------------------|---------------------|
| 3 | <b>Manufacture, Supply and delivery of DI D/F <u>Butterfly Valves</u> 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 or IS:13095. Drilled as per IS: 1538/ISO</b> |                     |                     |                     |                     |
|   | <b>DIA IN MM</b>   | <b><u>PN 10</u></b> | <b><u>PN 16</u></b> | <b><u>PN 25</u></b> | <b><u>PN 40</u></b> |
|   | 150  | 75082               | 75082               | 77505               | 102898              |
|   | 200  | 81776               | 84431               | 99204               | 125117              |
|   | 250  | 95280               | 98050               | 114844              | 175325              |
|   | 300  | 113690              | 117037              | 130541              | 184097              |
|   | 350  | 130079              | 141911              | 165283              | 200372              |
|   | 400  | 163837              | 185620              | 216115              | 306338              |
|   | 450  | 179864              | 199625              | 254237              |                     |
|   | 500  | 181574              | 214326              | 340822              | 378551              |
|   | 600  | 237977              | 336000              | 395590              | 414792              |
|   | 700  | 469808              | 495722              | 745049              |                     |
|   | 800  | 509329              | 530792              | 1087427             |                     |
|   | 900  | 666102              | 666102              |                     |                     |
|   | 1000   | 834990              | 834990              | 1576839             |                     |
|   | 1100   | 960239              |                     |                     |                     |
|   | 1200   | 1118792             | 1118792             | 1761526             |                     |
|   | 1400   | 2404501             | 2404501             |                     |                     |
|   | 1600   | 2867145             | 2867145             |                     |                     |
|   | 1800   | 3516719             | 3516719             |                     |                     |
|   | 2000   | 6007465             | 6007465             |                     |                     |
|   | 2200   | 8672955             | 8672955             |                     |                     |
| 4 | <b>Manufacture, Supply and delivery of DI D/F <u>Swing Check Valves</u> 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>                         |                     |                     |                     |                     |
|   | <b>DIA IN MM</b>   | <b><u>PN 10</u></b> | <b><u>PN 16</u></b> | <b><u>PN 25</u></b> | <b><u>PN 40</u></b> |
|   | 100  | 29751               | 33056               |                     |                     |
|   | 150  | 49958               | 55509               |                     |                     |
|   | 200  | 75761               | 80268               | 117720              | 154085              |
|   | 250  | 83376               | 88426               | 142973              | 180660              |
|   | 300  | 104511              | 110727              | 174054              | 220520              |
|   | 350  | 123004              | 130385              | 197987              | 240723              |

|          |  |                     |                     |                     |               |
|----------|--|---------------------|---------------------|---------------------|---------------|
|          | <b>400</b>   | <b>149422</b>       | <b>158358</b>       | <b>200473</b>       | <b>260693</b> |
|          | <b>500</b>   | <b>189984</b>       | <b>201485</b>       | <b>254087</b>       | <b>334356</b> |
|          | <b>600</b>   | <b>285042</b>       | <b>302177</b>       | <b>374567</b>       | <b>484148</b> |
|          | <b>700</b>   | <b>411426</b>       | <b>448683</b>       | <b>548435</b>       | <b>695472</b> |
|          | <b>800</b>   | <b>514432</b>       | <b>560655</b>       | <b>691554</b>       | <b>876114</b> |
|          |  |                     |                     |                     |               |
| <b>5</b> | <b>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</b>  |                     |                     |                     |               |
|          | <b>DIA IN MM</b>   | <b><u>PN 10</u></b> | <b><u>PN 16</u></b> |                     |               |
|          | <b>40</b>  | <b>5100</b>         | <b>5100</b>         |                     |               |
|          | <b>50</b>  | <b>5100</b>         | <b>5100</b>         |                     |               |
|          | <b>65</b>  | <b>5519</b>         | <b>5519</b>         |                     |               |
|          | <b>80</b>  | <b>6018</b>         | <b>6595</b>         |                     |               |
|          | <b>100</b>   | <b>8461</b>         | <b>8771</b>         |                     |               |
|          | <b>125</b>   | <b>10633</b>        | <b>10633</b>        |                     |               |
|          | <b>150</b>   | <b>14359</b>        | <b>14670</b>        |                     |               |
|          | <b>200</b>   | <b>19482</b>        | <b>19482</b>        |                     |               |
|          | <b>250</b>   | <b>25925</b>        | <b>25925</b>        |                     |               |
|          | <b>300</b>   | <b>36479</b>        | <b>36479</b>        |                     |               |
|          | <b>350</b>   | <b>44268</b>        | <b>48022</b>        |                     |               |
| <b>6</b> | <b>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. Electrostatically applied epoxy (1) Flange connection as per IS 1538, (2) Female (BSP/NTP Threaded for sizes 25 mm</b>  |                     |                     |                     |               |
|          | <b>DIA IN MM</b>   | <b><u>PN 10</u></b> | <b><u>PN 16</u></b> | <b><u>PN 25</u></b> |               |
|          | <b>25 mm dia</b>   | <b>13467</b>        | <b>-</b>            | <b>-</b>            |               |
|          | <b>50 mm dia</b>   | <b>-</b>            | <b>43400</b>        | <b>43400</b>        |               |
|          | <b>80 mm dia</b>   | <b>-</b>            | <b>68087</b>        | <b>68087</b>        |               |
|          | <b>100 mm dia</b>  | <b>-</b>            | <b>75075</b>        | <b>75075</b>        |               |
|          | <b>150 mm dia</b>  | <b>-</b>            | <b>153962</b>       | <b>153962</b>       |               |
|          | <b>200 mm dia</b>  | <b>-</b>            | <b>231231</b>       | <b>231231</b>       |               |
| <b>7</b> | <b>Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass &amp; gear operated, for water and sewage applications&amp; 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</b> |                     |                     |                     |               |

| <b>per IS 1538</b> |  |                     |                     |  |  |
|--------------------|--|---------------------|---------------------|--|--|
| <b>DIA IN MM</b>   |  | <b><u>PN 10</u></b> | <b><u>PN 16</u></b> |  |  |
| <b>DN700</b>       |  | <b>1247445</b>      | <b>1247445</b>      |  |  |
| <b>DN800</b>       |  | <b>1577213</b>      | <b>1577213</b>      |  |  |
| <b>DN 900</b>      |  | <b>1782891</b>      | <b>1782891</b>      |  |  |
| <b>DN 1000</b>     |  | <b>1997580</b>      | <b>1997580</b>      |  |  |
| <b>DN 1100</b>     |  | <b>3093809</b>      | <b>3093809</b>      |  |  |
| <b>DN 1200</b>     |  | <b>2721881</b>      | <b>2721881</b>      |  |  |

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.

**29. SoRATES FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR  
2013-14**

| Sl.No.    | Description  | Unit | SoRates for 2013-14. |
|-----------|--|------|----------------------|
| 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.                  |
| a)        | M.D. -10 with 500mm dia clear opening  | Each | <b>1498</b>          |
| b)        | H.D.-20 with 500mm dia clear opening   | Each | <b>1931</b>          |
| c)        | H.D.-10with 560mmdia clear opening(New item)   | Each | <b>1515</b>          |
| d)        | H.D.-20 with 560mm dia clear opening   | Each | <b>2071</b>          |
| e)        | H.D.-35 with 560mm dia clear opening.  | Each | <b>2219</b>          |
| f)        | 24x24 MD 10  | Each | <b>1633</b>          |
| g)        | 24x18 MD 10  | Each | <b>1503</b>          |
| h)        | 24x24 HD 20  | Each | <b>1835</b>          |
| i)        | 24x18 HD 20  | Each | <b>1871</b>          |
| j)        | Deviders 0.9 mtr.  | Each | <b>3842</b>          |
| <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 | <b>158</b>           |

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

**30. SoRATES FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2013-14**

| <b>Sl.No.</b> | <b>Description</b>   | <b>Unit</b> | <b>2013-14.</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        | <b>3988</b>      |
|               | 80   | Each        | <b>4365</b>      |
|               | 100  | Each        | <b>5728</b>      |
|               | 125  | Each        | <b>7365</b>      |
|               | 150  | Each        | <b>8080</b>      |
|               | 200  | Each        | <b>11458</b>     |
|               | 250  | Each        | <b>13640</b>     |
|               | 300  | Each        | <b>21825</b>     |
| <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  |             | <b>51762</b>     |
|               | 400  |             | <b>59314</b>     |
|               | 450  |             | <b>64351</b>     |
|               | 500  |             | <b>77021</b>     |
|               | 600  |             | <b>89624</b>     |
|               | 700  |             | <b>99706</b>     |
|               | 750  |             | <b>102229</b>    |
|               | 800  |             | <b>122394</b>    |
|               | 900  |             | <b>127690</b>    |
|               | 1000   |             | <b>152953</b>    |
|               | 1100   |             | <b>165580</b>    |
|               | 1200   |             | <b>190840</b>    |
|               | 1300   |             | <b>216097</b>    |
|               | 1400   |             | <b>241847</b>    |
|               | 1600   |             | <b>267156</b>    |
|               | 1800   |             | <b>316368</b>    |
|               | 2000   |             | <b>393705</b>    |
| <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>  | The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.   |             |                  |

**31. OTHER ITEMS FOR THE YEAR 2013-14**

| <b>Sl. No.</b> | <b>Description</b>   | <b>Unit</b> | <b>S.S. Rates for 2013-14.</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      | <b>290</b>                     |
| <b>2</b>       | <b>SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                          | Per Kg      | <b>153</b>                     |
| <b>3</b>       | <b>SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                       | Per Kg      | <b>116</b>                     |
| <b>4</b>       | <b>SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>                                  |             |                                |
|                | a) 3 mm thick  | Per Kg      | <b>94</b>                      |
|                | b) 6 mm thick  | Per Kg      | <b>94</b>                      |
| <b>5</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      | <b>112</b>                     |

**32. SoRATES FOR RUBBER RINGS SUITABLE FOR  
SWG PIPES FOR THE YEAR 2013-14**

| <b>Sl. No.</b> | <b>Description</b>  | <b>Unit</b> | <b>S.S Rates For 2013-14</b> |
|----------------|---|-------------|------------------------------|
| <b>1</b>       | <b>2</b>  | <b>3</b>    | <b>4</b>                     |
| <b>1</b>       | <b>Manufacture Supply of Rubber Rings made with EPDM Rubber rings(seals according to EN681 AND ASTM425) suitable for SWG pipes confirming to IS No.651/1992 any where in A.P , FOR including cost of materials, loading, unloading , handling with company standard packing , transportation, unloading and stacking but excluding central excise duty and other taxes etc complete</b> |             |                              |
|                | 100 mm dia  | Each        | <b>48</b>                    |
|                | 150 mm dia  | Each        | <b>73</b>                    |
|                | 200 mm dia  | Each        | <b>109</b>                   |
|                | 230 mm dia  | Each        | <b>133</b>                   |
|                | 250 mm dia  | Each        | <b>169</b>                   |
|                | 300 mm dia  | Each        | <b>194</b>                   |
|                | 350 mm dia  | Each        | <b>230</b>                   |

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



**33. SoRATES FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING  
METHOD FOR THE YEAR 2013-14**

| Sl. No. | Description  | Unit | S.S Rates For 2013-14 |
|---------|--|------|-----------------------|
| 1       | 2  | 3    | 4                     |
| 1       | <b>Railway crossing/road crossings/canal crossings by trenchless technology tunneling work through specialized pipe jacking method in co-ordination with concerned authorities for as per approved drawings, installing to correct level gradient and alignment by hydraulic pipe jacking technique complete including tunneling excavation drive and receive pits , excavation and all machines transportation charges and other required materials but excluding cost of encasing pipe</b> |      |                       |
|         | 800 mm dia   | Rmt  | <b>20000</b>          |
|         | 900 mm dia   | Rmt  | <b>21000</b>          |
|         | 1000 mm dia  | Rmt  | <b>22000</b>          |
|         | 1100 mm dia  | Rmt  | <b>23000</b>          |
|         | 1200 mm dia  | Rmt  | <b>24000</b>          |
|         | 1300 mm dia  | Rmt  | <b>25000</b>          |
|         | 1400mm dia   | Rmt  | <b>27000</b>          |
|         | 1500 mm dia  | Rmt  | <b>30000</b>          |

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

# **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.

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**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”**

| <b>Sl.No.</b> | <b>Name of the Minor Mineral</b>            | <b>Unit</b>        | <b>Rate of Seigniorage Fee<br/>(in Rupees)</b>                     |
|---------------|---|--------------------|--|
| <b>1</b>      | <b>2</b>                                    | <b>3</b>           | <b>4</b>   |
| 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. |

**Annexure-Seigniorage Charges – Common SoR 2013-14**

|       |   |                    |   |
|-------|---|--------------------|---|
|       |   |                    | Grade) in respect of Major 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 CMX 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 |
|------|---|---|------------------------------|-------------------|
|      |   |   |                              |                   |

**Annexure-Seigniorage Charges – Common SoR 2013-14**

|            |   |  |  |  |   |
|------------|---|--|--|--|---|
| <b>(a)</b> | Black Granite<br>Galaxy Variety   | Rs. 3300/-<br>(Rupees<br>Three<br>Thousand<br>Three<br>hundred)                    | Rs. 2625/-<br>(Rupees Two<br>thousand Six<br>hundred and<br>twenty five<br>only) | Rs. 2475/-<br>(Rupees Two<br>thousand Four<br>hundred and<br>Seventy Five<br>only) | Rs. 1100/-<br>(Rupees One<br>thousand One<br>hundred only)        |
| <b>(b)</b> | Black Granite other<br>than Galaxy<br>Variety   | Rs. 2475/-<br>(Rupees Two<br>thousand<br>Four hundred<br>and Seventy<br>Five only) | Rs.2000/-<br>(Rupees Two<br>thousand<br>only)                                    | Rs.1,925/-<br>(Rupees One<br>thousand Nine<br>hundred and<br>Twenty Five<br>only)  | Rs.825/-<br>(Rupees Eight<br>hundred and<br>Twenty Five<br>only)  |
| <b>(c)</b> | Colour Granite<br>Srikakulam Blue,<br>Indian aurora of<br>Nizamabad Dist.,<br>Leptinites of Coastal<br>Dists., Black pearl of<br>Praksam and Guntur<br>Dists. | Rs. 2475/-<br>(Rupees Two<br>thousand<br>Four hundred<br>and Seventy<br>Five only) | Rs.2000/-<br>(Rupees Two<br>thousand<br>only)                                    | Rs.1925/-<br>(Rupees One<br>thousand Nine<br>hundred and<br>Twenty Five<br>only)   | Rs.825/-<br>(Rupees Eight<br>hundred and<br>Twenty Five<br>only)  |
| <b>(d)</b> | Colour Granite of<br>other varieties  | RS.1,925/-<br>(Rupees One<br>thousand<br>Nine hundred<br>and Twenty<br>Five only)  | Rs. 1625/-<br>(Rupees One<br>thousand Six<br>hundred and<br>Twenty five<br>only) | Rs.1650/-<br>(Rupees One<br>thousand Six<br>hundred Fifty<br>only)                 | Rs.825/-<br>( Rupees Eight<br>hundred and<br>Twenty Five<br>only) |

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

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

**Annexure-Seigniorage Charges – Common SoR 2013-14**

**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.