



GOVERNMENT OF ANDHRA PRADESH

**COMMON STANDARD SCHEDULE OF
RATES FOR
ALL ENGINEERING DEPARTMENTS
FOR THE YEAR 2008-2009
(Effective from 1st June, 2008)**

BOARD OF CHIEF ENGINEERS

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

Procs.No.ENC/IW/P&M/EE3/DEE10/AE/13305/08 , _____ dt: 31 - 5 - 2008.

Sub:- Common SSRs for all Engineering Department works for the year 2008-09 – approved- Printing & Communication of SSRs – Reg.,

Ref:- 1. G.O.Ms.No.94, I & CAD Dept., dt:1-07-2003.

2. E-in-C(State Roads) Lr. No.SSR2008-09/T/DEE6/AE2/2008 Dt.16.5.2008

3. E-in-C(PH) Lr.No.146/SSR/2008-09/Vol-1/T1/2008 Dt.17.05.08 & 29.05.08

4. Commissioner, labour department Lr.No:J2/5549/2008,dt: 03-05-2008.

5.Minutes of BOCEs meeting for Common S S R s held on dt: 30 -5 - 2008.

-oOo-

The common SSR for the year 2008-09 is approved based on the following.

The Engineer-in-Chief (State Roads), R&B Department has furnished draft proposals for common materials ,conveyance rates of materials and hire charges of machinery & plant vide ref 2nd cited.

The Engineer-in-Chief, Public health Department has furnished Public Health Work Items and Public Health material rates vide ref 3rd cited.

The regional Superintending Engineers of Irrigation Circles of Hyderabad, Dowlaiswaram and Chittoor have furnished draft rates of Common materials & work items and Conveyance rates of Materials of their region., i.e., Telangana , Andhra and Rayalaseema regions respectively.

The labour rates are obtained from the Commissioner, labour department vide the reference 4th cited.

Based on the proposals, the draft common SSR for the year 2008-09 was reviewed and finalized in the annual Board of Chief Engineers meeting held on 24 -5-2008.

One hard copy & compact disc containing common S.S. Rates are communicated. No other items other than the items communicated by this Office shall be introduced in the SSR

The Heads of Department /Regional superintending Engineers of Irrigation & CAD Dept mentioned below are authorized to print the Common S S R. The unauthorized printing & selling of the Common SSR is strictly prohibited.

The revised rates will come into force from 1st June of 2008.

The receipt of the proceedings may be acknowledged.

Sd/- M.K. Rahaman 31.5.08
Engineer-in-Chief (I.W.)
Chairman, BOCE (S.S.R)

To
The Superintending Engineers of Irrigation Circles of
Hyderabad , Dowlaiswaram and Chittoor.

Copy along with Enclosures to

- 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) Chief Engineer (Buildings), R&B Department.

INDEX

Sl. No.	Description	Page No.	
		From	To
1	Preamble	1	6
2	Labour Rates	7	12
3	Common Material & work Items	13	31
4	Building Items and Sanitary & Water Supply Items	32	32
5	Public Health Items	33	121
6	Conveyance Rates of Materials	122	128
7	Hire Charges	129	132
8	Annexure	133	137

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:

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

C) INDUSTRIAL AREA:

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

Maximum 13% towards LI & LA will be allowed only in the case of works where the labour component i.e. excluding cost of material such as cement and steel works out to more than **Rs. 20.00 lakhs** on the basis of certificate of Executive Engineer that the labour available is not adequate and that labour has to be imported for executing the work, subject to approval of the Chief Engineer in terms of G.O.Ms.No.7 Finance (Works & Projects) Dept Dt. 20-6-2005.

Note: 1) Extra percentage towards labour importation and labour amenities where necessary, is admissible in addition to other percentage allowed:

3.0 WATER LEADS:

The following labour is allowed for conveyance of water for every ½ Kilometer lead or part thereof over the initial lead of ½ 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.

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

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

- 2) The above extra percentages in respect of excavation in restricted places are not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

5.0 Proportion of First class and 2nd class workmen under Skilled Labour:

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

6.0**A) Cement Concrete proportion and requirement of coarse aggregate etc., for 1 cum (unit) of finished work:**

- I) For Cement concrete proportions (1:4:8), (1:5:10) etc., 0.92 cum. of coarse aggregate shall be adopted and the quantity of mortar required calculated proportionately in each case.
- II) For cement concrete proportions (1:5:8), (1:6:10) etc., 0.90 cum. of coarse aggregate shall be adopted and the quantity of mortar required calculated proportionately in each case.

B) Requirement of Cement for stone masonry per unit (one cum.) of finished work:

- I) C. R. Masonry 1st Sort 0.28 Cum. of Cement Mortar.
- II) C. R. Masonry 2nd Sort 0.32 Cum. of Cement Mortar.
- III) R. R. Masonry 0.34 cum. of Cement Mortar.

Note:- In massive walls above 3 Mts. thick 0.40 cum. of cement mortar shall be allowed.

7.0 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 2/3rd of the labour charges of revetment as Chief Engineer, Circular No. P3/OT2/ T3/ 65167/78, Dt: 19.03.1980.

8.0 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.

9.0 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)

10.0 SEIGNIORAGE CHARGES:

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.217 (industries and commerce department), dated 29. 9.2004 may be added in the data of rates in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

11.0 EARTH WORK EXCAVATION BY MACHINERY:

Excavation in all soils up to SDR & Stone matrix with machinery within a radius of 5 m i.e. cut and dump – **Basic rate for SS 20B Rs : 13.00 / cum**

NOTE:-I) The machinery rate for earth work excavation should be adopted for more than **1000 cum** quantity as per **G. O. Ms. No. 134** Dated: 25.11.2002. (Irrigation & CAD(PW:COD) Department).

II) The machinery rates for earth work excavation for soil classification should be adopted as per G.O. **Ms. No 10** Dated: 26.07.2005 Finance (works & Projects) Dept. The machinery rates for soil classification from Extracts of the above G.O are as follows.(The machinery rates for earth work excavation should be adopted for 1000 Cum or more.)

- | | |
|--|-----------------------|
| 1. Excavation of all soils up to SDR | Rs: 13.00/Cum |
| 2. Excavation in H.D.R-I & II | Rs: 19.50/Cum |
| 3. Excavation in F & F rock | Rs: 43.50/Cum |
| 4. Excavation of Hard rock and boulders of more than 3 Cum in Size requiring blasting by machinery. | Rs: 87.00/ Cum |

Note: The machinery rates for above items are to be adopted as per Government orders issued from time to time.

III) The earth work excavation by machinery re handling (second operation) Rs: 6.50 /cum -

LABOUR RATES

RATES OF LABOUR

Sl. No.	S.S. Item No.	Description	Unit (per)	S S RATE FOR 2008-09
1	2	3	4	5
		(A) Skilled Workmen		
		First Class		
1	1 a	Mason and stone Cutter	Day	206.00
2	b	Brick Layer	Day	206.00
3	c	Carpenter	Day	206.00
4	d	Painter	Day	206.00
5	e	Plumber	Day	206.00
6	f	Welder	Day	206.00
7	g	Fitter	Day	206.00
8	h	Electrician	Day	206.00
9	I	Cook	Day	206.00
10	2	Mechanic	Day	206.00
11	3	Rigger	Day	206.00
12	4	Rigger Syrang	Day	206.00
13	5	Well Sinker	Day	206.00
14	6	Blaster	Day	206.00
15	7	Tipper and Heavy Vehicle Driver above 12 T	Day	222.00
16		Tanker and Medium Vehicle Driver (7.5 T to 12 T)	Day	196.00
17		Tanker and Light Vehicle Driver up to 7.5 T	Day	179.00
18		Wagon Drill Operator up to 7.5 T	Day	222.00
19	8	Lorry and Heavy Vehicle Driver above 12 T	Day	222.00

Sl. No.	S.S. Item No.	Description	Unit (per)	S S RATE FOR 2008-09
1	2	3	4	5
20		Road Roller Driver (7.5 T to 12 T)	Day	196.00
21		Road Roller Driver up to 7.5 T	Day	179.00
22	9	Tractor Driver above 12 T	Day	222.00
23		Tractor Driver (7.5 T to 12 T)	Day	196.00
24		Tractor Driver up to 7.5 T	Day	179.00
		<u>Operator</u>		
25	10	Pan Mixer	Day	206.00
26		Concrete mixer	Day	206.00
27		Vibrator	Day	206.00
28		Compressor	Day	206.00
29		Jack Hammer	Day	206.00
30		Driller	Day	206.00
31		Boring Maistry	Day	206.00
32	11	Pump Operator	Day	206.00
33	12	Turner Grade-I	Day	206.00
34	13	Wireless Operator	Day	222.00
35	14	Assistant Wireless Operator	Day	188.00
36	15	Jeep Driver	Day	179.00
37	16	Work inspector with I.T.I qualification	Day	204.00
38	17	Work Inspector with LCE,LME,L.E.E Qualification	Day	250.00
39	18	Work Inspector with B.E (Civil, Mechanical and Electrical qualification)	Day	324.00

Sl. No.	S.S. Item No.	Description	Unit (per)	S S RATE FOR 2008-09
1	2	3	4	5
40	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	188.00
41	20	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	206.00
42	21(a)	Computer Operator/Job Typist	Day	200.00
	(b)	Auto CAD Operator with Diploma in Computer having experience in AutoCAD.	Day	275.00
(B) SEMI-SKILLED WORKMEN				
SECOND CLASS				
43	1- a	Mason	Day	188.00
44	b	Brick Layer and Stone Cutter	Day	188.00
45	c	Carpenter	Day	188.00
46	d	Painter	Day	188.00
47	e	Plumber	Day	188.00
48	f	Blacksmith	Day	188.00
49	g	Welder	Day	188.00
50	h	Fitter	Day	188.00
51	I	Electrician	Day	188.00
52	2	Caulker	Day	188.00
53	3	Bar bender	Day	188.00
54	4	Tinker	Day	188.00
55	5	Sawyer	Day	188.00
56	6	Brick-Moulder	Day	188.00

Sl. No.	S.S. Item No.	Description	Unit (per)	S S RATE FOR 2008-09
1	2	3	4	5
57	7	Pot-tile turner	Day	188.00
58	8	Pan -tile turner	Day	188.00
59	9	Brick and Lime Kiln man /Glazzer	Day	188.00
60	10	Telephone Operator	Day	188.00
61	11	Hand Driller	Day	188.00
62	12	Quarry man	Day	188.00
63	13	Hammer man	Day	188.00
64	14	Thatcher	Day	188.00
65	15	Fireman	Day	188.00
66	16	Cleaner/Helper	Day	188.00
67	17	Stone Packer	Day	188.00
68	18	Jawali	Day	188.00
69	19	Ex-Service man/Goorkha watchman	Day	146.00
70	20	Ratton worker	Day	188.00
71	21	Mate	Day	188.00
(C) UNSKILLED WORKMEN				
72	1	Head mazdoor(Mukaddar)	Day	146.00
73	2	Man mazdoor	Day	146.00
74	3	Watch man	Day	146.00
75	4	Picottah man	Day	deleted
76	5	Woman Mazdoor	Day	146.00

Sl. No.	S.S. Item No.	Description	Unit (per)	S S RATE FOR 2008-09
1	2	3	4	5
77	6(a)	Casual labour on loading & Un-loading operations	Day	
78	6(b)	Helpers/Cleaners/Sweepers/Scavengers/Choukidaars/Security Guards/Office Boys	Day	
79		NOTE: Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double of the above wages.		
		(D) OTHER CONVEYANCE ITEMS		
80	1	Single bullock with driver and cart	Day	204.00
81	2	Bullock pair with driver	Day	204.00
82	3	Bullock pair with driver and cart	Day	222.00
83	4	Bullock pair with driver and cart with Pneumatic tyres	Day	273.00
84	5	Bullock pair with driver and kapila	Day	deleted
85	6	Nava with crew	Day	196.00
86	7	Punt thundal	Day	162.00
87	8	Punt lascar	Day	162.00
88	9	Punt boy lascar	Day	deleted
		<p>Note: - 1) The wage should not be less than the minimum wages of schedule of employment, subject to out turn.</p> <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 limits only.</p>		

COMMON MATERIAL & WORK ITEMS

RATES OF COMMON MATERIALS AND WORK ITEMS

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
		(A) STONE AND ROAD MATERIALS		
		ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING AND STACKING		
89	22.a	For R.R Masonary Work (other than Granite, Dolomite and Trap	1 cum	133.00
90	b.I	For SS Revetment work 225 mm	1 cum	71.00
91	b.ii	For SS Revetment work 300 mm	1 cum	95.00
92	b.iii	For SS Revetment work 450 mm	1 cum	114.00
93	c	Jeddy Stone above 450 mm to 600 mm	1 cum	156.00
94	d I.	Laterite for revetment 225 mm	1 cum	98.00
95	d II.	Laterite for revetment 300 mm	1 cum	114.00
96	d.iii	Granite for SS revetment 225 mm	1 cum	117.00
97	d.iv	Granite for SS revetment 300 mm	1 cum	136.00
		Note:- Only when other than granite is not available		
98	e	Laterite for masonry	1 cum	114.00
99	f	Cyclopean stones above 0.2 cum	1 cum	210.00
100	g	For R.R.Masonry works (granite, dolomite and trap variety	1 cum	155.00
101		NOTE:- For items 22(a) to 22© ,22d.iii,22d.iv 22(f) and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	67.00
		COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING FOR SS FIRST SORT WORKS		
102	23.a	Granite, dolomite and trap	1 cum	218.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
103	b	For other varieties	1 cum	152.00
104	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1409.00
105		NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	69.00
106	28	Bond stones (600 x 200 x 200 mm)	each	25.00
107	b	Chainage stones and Centre line stones (750x150x150xmm)	each	30.00
	29 (a)	Kilometers stones (1100 x 370 x 250 mm)	each	deleted
	b	5th Kilometers stones (1520 x 520 x 250 mm)	each	deleted
	30 (a)	Hectometers stones (900 x 200 x 200 mm)	each	deleted
108	31	Demarcation Stones (900 x 150 x 150 mm)	each	57.50
109	32.a	Guard Stones (1200 x 200 x 200 mm)	each	86.00
110	b	Guide Stones (800 x 150 x150 mm)	each	57.50
111	c	Carving letters and figures in stone up to 100 mm size	each	5.30
112	d	Carving letters and figures in stone above 100 mm size	each	7.00
		HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING.		
113	33.a	- do - 6mm size (IS383,1970)	1 cum	430.00
114	b	- do - 10mm size (IS383,1970)	1 cum	560.00
115	c	- do - 12mm size (IS383,1970)	1 cum	690.00
116	d	- do - 20mm size (IS383,1970)	1 cum	845.00
117	e	- do - 25mm size (IS383,1970)	1 cum	830.00
118	f	- do - 40mm size (IS383,1970)	1 cum	500.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
119	g	- do - 50mm size (IS383,19705)	1 cum	390.00
120	h	- do - 60mm size (IS383,1970)	1 cum	360.00
121	I	- do - 65mm size (IS383,1970)	1 cum	325.00
122	j	- do - 75mm size (IS383,1970)	1 cum	260.00
123	k	- do - 75 to 100mm size (IS383,1970)	1 cum	210.00
124		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting		70.00
125		(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.		25%
126		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.		9.00
127		(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.		15.00 9.00
		SOFT BROKEN STONE SCREENED AND FREE FROM DUST INCLUDING STACKING		
128	33.l	- do - 40 mm size (IS383,1970)	1 Cum	105.00
129	33.m	- do - 50 mm size (IS383,1970)	1 Cum	95.00
130	33.n	- do - 60 mm size (IS383,1970)	1 Cum	75.00
131	33.o	- do - 65 mm size (IS383,1970)	1 Cum	67.00
132	33.p	- do - 75 mm size (IS383,1970)	1 Cum	63.00
		HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING INCLUDING STACKING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)		
133 a)	33a	-do- 2.36 mm to 5 mm size (IRC, MORTH & MORD)	1 cum	234.00
b)	b	-do- 5 mm to 7 mm size (IRC, MORTH & MORD)	1 cum	430.00
134	c	-do- 9.5 mm to 11.2 mm size (IRC, MORTH & MORD)	1 cum	560.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
135	d	-do- 12mm to 14 mm size (IRC, MORTH & MORD)	1 cum	690.00
136	e	-do- 19 mm to 22 mm size (IRC,MORTH & MORD)	1 cum	845.00
137	f	-do- 25 mm to 27 mm size (IRC,MORTH &MORD)	1 cum	830.00
138	g	-do- 40 mm to 45 mm size (IRC , MORTH &MORD)	1 cum	500.00
139	h	-do- 50 mm to 55 mm size (IRC,MORTH & MORD)	1 cum	390.00
140	i	-do- 60 mm to 63 mm size (IRC, MORTH &MORD)	1 cum	360.00
141	j	-do- 65 mm size (IRC ,MORTH &MORD)	1 cum	325.00
142	k	-do- 75 mm size (IRC,MORTH &MORD)	1 cum	260.00
143	1	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70.00
144	2	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%
145	3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.00
146	4	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	15.00 9.00
		HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST INCLUDING STACKING		
147	33.q	- do - 10 mm size (IS383,1970)	1 Cum	331.00
148		-do- 9.5 mm to 11.2 mm size (IRC,MORTH & MORD)	1 Cum	331.00
149	r	- do - 12 mm size (IS383,1970)	1 Cum	310.00
150		-do- 12mm to 14 mm size (IRC , MORTH & MORD)	1 Cum	310.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
151	s	- do - 20 mm size (IS383,1970)	1 Cum	251.00
152		-do- 19 mm to 22 mm size (IRC,MORTH & MORD)	1 Cum	251.00
153	t	- do - 25 mm size (IS383,1970)	1 Cum	247.00
154	u	- do - 40 mm size (IS383,1970)	1 Cum	146.00
155		-do- 40 mm to 45 mm size (IRC , MORTH & MORD)	1 Cum	146.00
156	v	- do - 50 mm size (IS383,1970)	1 Cum	129.00
157		-do- 50 mm to 55 mm size (IRC,MORTH &MORD)	1 Cum	129.00
158	33.w	- do - 65 mm size (IS383,1970)	1 Cum	122.00
159		-do- 60 mm to 65 mm size (IRC, MORTH &MORD)	1 Cum	122.00
160	x	- do - 75 mm size (IS383,1970)	1 Cum	101.00
161		- do - 75 mm size (IRC ,MORTH & MORD)	1 Cum	101.00
162	y	- do - 75 to 100 mm size (IS383,1970)	1 Cum	80.00
163		- do - 75 to 100 mm (IRC, MORTH & MORD)	1 Cum	80.00
		OTHER ITEMS INCLUDING STACKING		
164	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	87.50
165	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	65.50
166	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	82.00
167		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	70.00
168	z4	Soling stone of 150 mm size other than granite variety	1 Cum	57.50
169	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	35.00
170	z6	Field picked metal unbroken 20 mm size	1 Cum	47.50

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
171	z7	- do - 25 mm size	1 Cum	37.50
172	z8	- do - 40 mm size	1 Cum	42.00
173	z9	- do - 50 mm size	1 Cum	37.50
174	z10	- do - 60 mm size	1 Cum	31.00
175	z11	- do - 80 mm size	1 Cum	22.50
176		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.		15.00 9.00
177	34	Gravel including stacking	1 Cum	56.00
178	35 a	Quarry rubbish	1 Cum	25.00
	b	HBG Stone Chips 2.36mm and below	1 Cum	225.00
179	36.a	Sand for mortar, ceiling coat including washing screening etc.,	1 Cum	175.00
180	b	Sand for filling and blindage	1 Cum	60.00
181	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	28.00
		(C) LIME AND CEMENT		
182	40 to 41(c)			As per local prevailing rates based on competitive rates

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
183	42	Cement excluding cost of empty cement bags	Metric Tonne	The price of cement will be reviewed and fixed on monthly basis as per G.O.Ms.No.94 T,R&B Dept Dt16-4-2008 and rates will be communicated separately.
		NOTE: (1) The rate is material at site (No conveyance charges to be allowed) 2)As per the rates applicable to the District. 3) Least of the (1) and (2) above may allowed 4) The price of cement will be reviewed and fixed on monthly basis as per G.O.Ms.No.94 T,R&B Dept Dt16-4-2008 and rates will be communicated separately.		
184	42.a	Labour for mixing cement mortar	1 Cum	28.00
185	b	Mixing of cement mortar by machine	1 Cum	45.00
186	c	Grinding lime mortar or Surkhi mortar	1 Cum	78.00
187	d	Shell lime slaked and screened	1 Cum	780.00
188	e	White cement	1 Kg.	25.00
		(D) MORTARS		
189	43 to 45	Items 43 to 45		Rates have to be worked out based on standard data.
		(E) METAL AND IRON WORKS		
190		Mild steel rods 6mm dia.	One Metric Tonne	The prices of steel will be

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
191		Mild steel flats	One Metric Tonne	
192		Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	One Metric Tonne	
193		High Yield Strength Deformed Bars	One Metric Tonne	
194		Mild Steel Plates	One Metric Tonne	
<p>NOTE: (1) The rate are inclusive of sales tax. 2) As per the rates applicable to the District. 3) Least of the (1) and (2) above may allowed 4) The prices of steel will be reviewed and fixed on monthly basis as per G.O.Ms.No.94 T,R&B Dept, Dt 16-4-2008 and rates will be communicated separately.</p>				
III RATES OF WORKS				
(A) CLEARING SITE				
195	1.a	Clearing heavy Jungle	1 Sqm	2.20
196	b	Clearing light Jungle	1 Sqm	2.00
197	c	Clearing Scrub Jungle	1 Sqm	2.00
198	d	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	3.30
199	2.a.I	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	27.00
200	ii	- do - 100 to 200 cm.	Each	42.50
201	2.b.I	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	30.00
202	ii	- do - 100 to 200 cm.	Each	46.00
203	2.c.I	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	18.00
204	ii	- do - 100 to 200 cm	Each	28.00
205	d.I	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	18.00
206	ii	- do - 100 to 200 cm	Each	24.00
207	e I	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	24.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
208	ii	- do - 100 to 200 cm	Each	38.00
209	iii	- do - above 200 cm	Each	62.00
210	f.I	Uprooting and removing stumps of other kind of trees including stacking of girth 30 to 100 cm.	Each	18.00
211	ii	- do - 100 to 200 cm	Each	26.00
212	iii	- do - above 200 cm	Each	35.50
213	3.a	Uprooting and clearing prickly pear jungle	1 Sq.m	1.90
214	b	- do - under 2.5 meters height including burning and burying as directed.	1 Sq.m	2.40
215	c	- do - over 2.5 meters height including burning and burying with an initial lead of conveyance	1 Sq.m	2.90
216	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 Sq.m	1.50
217	b.I	Clearing alchi, tilla	1 Sq.m	2.90
218	b.ii	Removal of Jammu	1 Sq.m	2.50
219	c.I	Removal of imponea, cornea	1 Sq.m	2.90
220	c.ii	Removal of water hyacinth up to 30 cm thick.	1 Sq.m	3.00
221	c.iii	- do - more than 30 cm thick	1 Sq.m	4.10
222	d	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sq.m	1.00
		(B) DISMANTLING		
	5	DISMANTLING, CLEARING AWAY AND CAREFULLY STACKING MATERIALS USEFUL FOR REUSE.		
223	n.(i)	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	50.00
		(C) QUARRYING AND BLASTING		
224	6	Blasting and removing hard granite measured in solid	1 cum	covered under earth work item
	7	Drilling holes in hard granite or sheet rock		

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
	a)	Manually (Hand)		
225	I)	20 mm dia meter	1 RM	88.00
226	ii)	25 mm dia meter	1 RM	95.50
227	iii)	36 mm dia meter	1 RM	109.00
	b)	Pneumatic Compressor		
228	I)	20 mm dia meter	1 RM	100.00
229	ii)	25 mm dia meter	1 RM	110.00
230	iii)	36 mm dia meter	1 RM	121.00
	8	Grouting the holes with neat cement slurry excluding cost of steel		
231	I)	20 mm dia meter	1 RM	64.50
232	ii)	25 mm dia meter	1 RM	81.00
233	iii)	36 mm dia meter	1 RM	99.50
		(D) EARTH WORK		
234		NOTE:- 1. Standard Specification No.20-A requires breaking clods, ramming and sectioning of spoil bank etc.,		
235		2. Standard Specification No.20-B does not require that three items of work detailed above, but does require neat banking in accordance with the standard specification.		
236		3. A separate rate for these three items of work will not be necessary where the earth work is executed under the standard specification No. 20-A.		
236a		Allowances for Excavation and Forming Embankment:		
		(I) Top soil removal - up to 5%		
		(ii)Consolidation allowance to Proctor's Density - 10%		
		(iii)Shrinkage Allowance - 2 to 2.5%		
		(iv)Wastage- 1%		
		(v)Allowance for removal of boulders - Nil		
236b		Conveyance by Lorries not applicable to head leads		
		(vi) Clay 25%		
		loamy, Red Earth, Gravel, Homogeneous soils- 18%		

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
		(vii) Allowance for compaction and Shrinkage- 12 to 12.5%		
		EARTH WORK EXCAVATION AND DEPOSITING ON BANK WITH AN INITIAL LEAD OF 10 METRES AND AN INITIAL LIFT OF 2 METRES IN CASE OF HEAD LEAD ONLY.		
237	8.a	Sand or loose soils wet sand not under water, silt in canals, channels and drains SS 20-A.	1 cum	27.00
238	b	- do - 20-B	1 cum	25.00
239	9.a	Loamy and Clayey soils like black cotton soils, red earth and ordinary gravel SS 20-A.	1 cum	41.00
240	b	- do - 20-B	1 cum	37.50
241	10.b	Slushy soil and silt clearance up to 0.60 metres depth SS 20-B	1 cum	41.00
242	11.b	Clayey Soil in wet and slushy condition SS 20-B	1 cum	43.00
243	12.a	Hard Gravelly Soils SS 20-A	1 cum	43.00
244	b	- do - SS 20-B	1 cum	40.50
245	13.a	Mixture of gravel and soft disintegrated rock like shales ordinary gravel, stoney earth and earth mixed with fair sized boulders SS 20-A	1 cum	45.50
246	b	- do - 20-B	1 cum	41.50
247	14	Soft disintegrated rock (removable by pick axes and crow bars)	1 cum	49.00
248	15	Stone matrix	1 cum	50.50
249	16	Hard disintegrated rock or soft rock or conglomerate rock etc., removable by pick axes and crow bars	1 cum	66.00
250	17	Hard disintegrated rock or soft rock or conglomerate rock and Hard lime kankar requiring partial blasting.	1 cum	87.00
251	18.a.I	Fissured and fractured rock and boulders up to 3 cum in size requiring blasting including stacking	1 cum	147.00
252	a.ii	- do - Stacking is not done	1 cum	141.50
253	18.b.I	Excavation of Nandyal Slabs more than 3 cum in size requiring blasting including stacking	1 cum	180.00
254	b.ii	- do - Stacking is not done	1 cum	175.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
255	19.a.I	Hard rock and boulders more than 3 cum in size requiring blasting including stacking	1 cum	320.00
256	a.ii	- do - Stacking is not done	1 cum	310.00
	a.iii	Hard rock and boulders more than 3 cum in size wherever quarrying is done by controlled blasting.	1 cum	400.00
	a.iv	- do - Stacking is not done	1 cum	390.00
257	19.b	Benching, chiseling, wedging and boring in rock in foundation grade levelling.	1 cum	440.00
		FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM NOS 8-b to 15 ABOVE)		
258	20.a.I	Extra for every additional 10 metres lead or part there of over the initial lead for the first 3 extra leads	1 cum	1.70
259	ii	-do- from 4 th extra lead to 6 th extra lead	1 cum	2.70
260	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum	4.00
		FOR HARD DISINTEGRATED ROCK (ITEM 16 TO 17 ABOVE)		
261	20bi	(Extra for every additional 10 metres lead or part there of) over the initial lead for the first 3 extra leads	1 cum	2.90
262	ii	Extra for every additional 10 mtrs. Lead or part there of from 4 th extra lead to 6 th extra lead	1 cum	4.50
263	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum	6.00
		FOR FISSURED AND FRACTURED HARD ROCK AND BOULDERS ETC., (ITEM 18 & 19 a ABOVE)		
264	20.c.I	(Extra for every additional 10 metres lead or part there of) over the initial lead for the first 3 extra leads	1 cum	4.50
265	ii	Extra for every additional 10 mtrs. Lead or part there of from 4 th extra lead to 6 th extra lead	1 cum	7.00
266	iii	-do- from 7 th extra lead to 9 th extra lead	1 cum	8.50

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
		FOR ALL SOILS, SOFT DISINTEGRATED ROCK AND STONE MATRIX (ITEM NOS 8-b to 15 ABOVE)		
267	21.a.I	Extra for every additional 1 metre lift or part there of over the initial lift for the first 3 extra lifts	1 cum	1.70
268	ii	Extra for every additional 1 mtrs. lift or part there of from 4 th extra lift to 6 th extra lift	1 cum	2.70
269	iii	-do- from 7 th extra lift and above	1 cum	4.00
		FOR HARD DISINTEGRATED ROCK (ITEM 16 & 17 ABOVE)		
270	21.b. I	Extra for every additional 1 metres Lift or part there of over the initial lift for first 3 extra lifts	1 cum	2.90
271	ii	Extra for every additional 1 mtrs. lift or part there of from 4 th extra lift to 6 th extra lift	1 cum	4.50
272	21.b.iii	-do- from 7 th extra lift and above	1 cum	6.00
		FOR FISSURED AND FRACTURED, HARD ROCK AND BOULDERS ETC.,(ITEM 18 TO 19 a ABOVE).		
273	21.c.I	Extra for every additional lift of 1 metre or part there of over the initial lift for the first 3 extra lifts	1 cum	4.50
274	ii	Extra for every additional lift of 1metre or part there of over from 4th extra lift to 6 th extra lift	1 cum	7.00
275	iii	-do- from 7 th extra lift and above	1 cum	8.50
276		Note: The lift charges mentioned in SS item Nos 21a,21 b, and 21c under (D) Earth work are applicable to delifts also.		
277	22.a	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation by stone roller up to 1 tonne.	1 cum	3.00
278	b	- do - with stone roller 2 tonnes or cattle treading	1 cum	4.80

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
	b(I)	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation by pneumatic tampers at 90% proctor's density.	1 cum	5.00
279	c	Add to relevant SS 20-A rates for new tank bunds, closing breaches, road formation and embankments for extra watering and consolidation of proctor's density with 8 to 10 tonne power roller including watering and conveyance of water for initial lead of 1/2 Kilometer.	1 cum	28.00
280		Note: The element of Hire charges is Rs 51.76 per 10 cum corresponding to the hire charges of 8 to 10 Tonne power roller fixed at Rs. 2200 /- per day of 8 hours. The rate shall be increased when the element of hire charges increases for item No. 22 c above, if the roller is lent to the contractor at a rate of Rs 275/- per hour (i.e.,) Rs 2200 /- per day of 8 hours may be effected.)		
281	22.d	Extra for every additional 1/2 km lead for water over the initial lead of 1/2 Km for consolidation of banks .	1 cum	3.00
282	23.a	Benching old embankment slopes 0.45 x 0.45 metres.	1 RM	2.00
283	23.b	Puddle wall work	1 cum	43.00
284	24	Turfing slopes including watering for 3 months with initial lead for conveyance of water and grass for 1 hectometer.	1 Sq.m	19.00
285	25	Refilling with the excavated sand complying with the standard specifications for filling foundations	1 cum	14.00
286	26.a	Refilling with the excavated soils (other than sand) complying with the standard specifications for filling foundations.	1 cum	14.00
287	b	Trimming of slopes of embankments and depositing the soils on the top of the bank.	1 cum	50% of earth work excavation of similar classification

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
288	c	Ploughing	1 Sq.m	0.80
		(E) CONCRETE AND (G) STONE MASONRY		
289		SSI NOS 31a to 39 and SSI Nos. 60 to 87		Rates have to be worked based on standard data
290		Note:		
291		1. Add for vibrating concrete	1 cum	43.00
292		2. Add for machine mixing of concrete.	1 cum	45.00
293		3.Add where the power is available for operating the mixer, the rate is,	1 cum	27.50
294	a I	White washing and colour banding for guard and guide stones including cost of materials	each	5.80
295	b I	Screening sand and gravel	1 cum	5.70
296	b 2	Screening chips and metal	1 cum	11.80
297	c 1	Removing and refixing Hectometer or Demarcation stones	each	8.60
		CENTERING CHARGES		
298	L 1	Centering charges for culvert slabs and other structures of 3 mts. span and above	1 cum	950.00
299	L 2	Centering charges for bed blocks and culvert slabs and other structures of less than 3 mts. span.	1 cum	760.00
		CENTERING CHARGES FOR MINOR AND MAJOR BRIDGE WORKS		
300	L3	For mass concrete piers, abutments and steining well curbs, well caps etc.,	1 cum	700.00
301	L 4	For RCC piers, abutments, wing wall, steining, well curbs, well caps etc.,	1 cum	850.00
302		NOTE:- The rates under L3 and L 4 are applicable to Roads and Buildings and Irrigation structures up to 2 metres width		
303	L 5	For RCC deck slabs	1 cum	1550.00
304	L 6	For RCC beams	1 cum	2000.00
305	L 7	For RCC hand rails	1 cum	2200.00
306	L 8	For CC pavements, wearing coats, approach, slabs, guide stone, J. M. stone etc.,	1 cum	160.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
	n	Laying and fixing RCC Hume pipes in position including lifting, aligning etc., complete with (fixing) collars for the following diametres of pipes but excluding cost of materials (NP2 Class)		
307	n 1	250 mm diameter	1 Rm	17.00
308	n 2	300 mm diameter	1 Rm	23.50
309	n 3	450 mm diameter	1 Rm	30.00
310	n 4	600 mm diameter	1 Rm	49.00
311	n 5	750 mm diameter	1 Rm	60.00
312	n 6	800 mm diameter	1 Rm	73.00
313	n 7	1000 mm diameter	1 Rm	82.00
314	n 8	1220 mm diameter	1 Rm	100.00
315		Note:- For NP3 class 50% extra over the rates of NP2. Class may be allowed.		
		(S) ROAD WORK ITEMS		
		PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGE BUNDS 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.		
		(For a compact thickness)		
	1 (I)	HARD METAL		
316	a	40 mm thickness	10 sqm	52.00
317	b	50 mm thickness	10 sqm	55.00
318	c	75 mm thickness	10 sqm	60.00
319	d	100 mm thickness	10 sqm	65.00
	1 (ii)	For compact thickness of soft metal		
320	a	50 mm thickness	10 sqm	40.00
321	b	75 mm thickness	10 sqm	48.00
322	c	100 mm thickness	10 sqm	52.00
323	2	Picking 5 to 100 mm old metalled surface and sectioning	10 sqm	20.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
324	3	Picking gravelled surface 25 mm deep and levelling and sectioning	10 sqm	6.00
325	4	Picking the existing B.T. surface and removal of chips	10 sqm	22.00
326	5	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 and power roller rolling including hire charges of 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)		
		HARD METAL		
327	5 (a)	40 mm thickness	10 sqm	137.00
328	(b)	50 mm thickness	10 sqm	155.00
329	(c)	75 mm thickness	10 sqm	170.00
330	(d)	100 mm thickness	10 sqm	185.00
331	(e)	150 mm thick excluding hire charges	10 sqm	330.00
		Spreading gravel watering with an initial lead of 2 hectometers and power roller (8 to 10 T) rolling excluding hire charges of power roller and barricading etc., (for a compact thickness of)		
332	6a	50 mm thickness	10 sqm	25.00
333	b	75 mm thickness	10 sqm	34.00
334	c	100 mm thickness	10 sqm	53.00
335	d	150 mm thickness	10 sqm	60.00
336	7a	Blinding the road surface 6 mm thick with gravel or sand available at site after remaining loose stones including watering.	10 sqm	1.80
337	b	-do- without watering	10 sqm	1.50
338	8a	Blinding the road surface 6 mm thick with gravel or sand dug from road site including watering.	10 sqm	2.90
339	b	-do- without watering	10 sqm	2.10
340		Spreading gravel sand including watering and roller rolling (for compacted thickness of)		
341	9a	-do- 6mm to 20 mm thick	1 cum	38.00
342	b	-do- from 20 to 25 mm thick	1 cum	34.00
343	c	-do- from 25 to 40 mm thick	1 cum	32.00
344	d	-do- from 40 to 50 mm thick	1 cum	30.00

Sl. No	S.S. Item No.	Description	Unit	SS Rate for 2008-09
1	2	3	4	5
345	10	Picking 50 to 100 mm Old metalled surface, spreading metal and blindage watering tamping for patch repairs (labour only)	10 sqm	28.00
346	11	Picking old metalled surface 50 to 100 mm deep spreading gravel watering and tamping (labour only)	10 sqm	15.00
347	12	Levelling ruts and tamping gravelled roads	10 sqm	3.00
348	13	Levelling ruts and tamping metalled roads	10 sqm	6.00
349	14	Spreading gravel or sand including watering and rolling with hand roller irrespective of thickness in layer	10 cum	230.00
350	15(I)	Carrying for water for WBM consolidation metal and blindage of 40 to 150 mm thickness for every one hectometer beyond initial lead of 2 hectometers beyond initial lead of 2 hectometers	10 sqm	3.00
	(ii)	Rate towards the cost of water to be consumed for Cement Concrete Roads(including curing) under Greater Hyderabad Municipal Corporation limits only, subject to issue of certificate by the concerned Executive Engineer in charge of the work that water required for the work is to be purchased from other source.	1 sqm	10.00
351		Gelatin(For MORTH data,for works of state & national high ways only)	Per Kg	60.00
352		Electric Detonators(For MORTH data,for works of state & national high ways only)	each	3.00
353		Hot applied thermoplastic compound(For MORTH data, for works of state & national high ways only)	Per Litre	200.00
354		Reflectionising glass beads of 2 mm thick(For MORTH data, for works of state & national high ways only)	Per Kg	65.00
355		Road marking paint conforming to IS 164(For MORTH data, for works of state & national high ways only)	Per Kg	160.00
		BAILING OUT WATER CHARGES FOR CD & CM WORKS (WHEREVER REQUIRED)		
356	I 14	For earth work excavation for foundations below low water level	1 cum	80.00
357	I 15	For cement concrete for foundation below low water level	1cum	120.00
358	n	Labour charges for laying filters with coarse aggregate.	1 cum	45.00
359	o	Labour charges for laying filter with sand.	1 cum	25.00

BUILDING ITEMS, SANITARY & WATER SUPPLY ITEMS

**(The S.S Rates will be finalised by Committee Constituted Vide G.O.Rt.No.471 T R & B(R1) Dept
Dt 20-4-2007)**

PUBLIC HEALTH ITEMS

PUBLIC HEALTH ITEMS

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulkar	Per Day	AS PER COMMON SSR
	2. Plumber 1st Class	Per Day	
	3. Plumber 2nd Class	Per Day	
	4. Sewer Cleaner	Per Day	
	5. Well Sinker	Per Day	
	6. Pipe line Fitter 1st Class	Per Day	
	7. Pipe line Fitter 2nd Class	Per Day	
	8. Pump Driver	Per Day	
	9. Bore Mechanic	Per Day	
	10. Light Vehicle Driver	Per Day	
	Note: The rate at relevant item in common SSR is applicable for occasional employment.		
2	RATES FOR EARTH WORK :		
a.	Earth work excavation in all soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.		AS PER COMMON SSR
b.	Earth work excavation in all soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.		
c.	Earth work excavation in all soils for open trenches, for valve pits, inspection chambers, etc.		
3.	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.		AS PER COMMON SSR
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 less than 1.5 times the width, in places where there is no habitation.		
b.	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.		
c.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is less than 1.5 times the width.		
d.	Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.		
e.	Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
f.	For controlled blasting at restricted places		As per Common material and work items (i.e. item no. 19a.iii & iv of S.No.256)
	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.		
4	Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia up to 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	73.80
b.	A.C. Pipes & Specials	Per Tonne	61.60
c.	Stoneware pipes & Specials	Per Tonne	61.90
d.	P.V.C. Pipes and fittings	Per Tonne	60.80
5	Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia up to 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	92.50
b.	A.C. Pipes & Specials	Per Tonne	83.80
c.	Stoneware pipes & Specials	Per Tonne	84.40
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	91.20
b.	A.C. Pipes & Specials	Per Tonne	83.80
c.	P.V.C. Pipes and fittings	Per Tonne	83.30
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	110.90
b.	A.C. Pipes & Specials	Per Tonne	103.80
	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		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
8. a.	Lowering the C.I. Pipes, D.I. Pipes and fittings with S/S ends carefully into the trenches and laying them true to alignment and gradient including all sundries, but excluding conveyance from source of supply as per BIS No.3114/85.		
	DIAMETER OF PIPE/Fittings in mm :		
	80	Per Metre	16.60
	100	Per Metre	16.60
	125	Per Metre	16.60
	150	Per Metre	16.60
	180	Per Metre	19.10
	200	Per Metre	21.40
	225	Per Metre	22.80
	250	Per Metre	24.20
	300	Per Metre	31.20
	350	Per Metre	56.00
	380	Per Metre	56.70
	400	Per Metre	59.20
	450	Per Metre	69.10
	500	Per Metre	74.50
	530	Per Metre	84.80
	560	Per Metre	92.80
	600	Per Metre	99.00
	650	Per Metre	102.60
	680	Per Metre	108.90
	700	Per Metre	120.50
	750	Per Metre	139.20
	800	Per Metre	161.50
	900	Per Metre	193.50
	1000	Per Metre	233.80
	1100	Per Metre	277.80
	1200	Per Metre	325.90
8. b.	Lowering the C.I. Pipes, D.I. Pipes and fittings with flanged ends carefully into the trenches and laying them true to alignment and gradient including all sundries, but excluding conveyance from source of supply as per BIS No.3114/85.		
	DIAMETER OF PIPE/Fittings in mm :		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	80	Per Metre	20.20
	100	Per Metre	20.20
	125	Per Metre	20.20
	150	Per Metre	21.20
	180	Per Metre	21.60
	200	Per Metre	23.70
	225	Per Metre	25.30
	250	Per Metre	26.90
	300	Per Metre	34.40
	350	Per Metre	61.60
	380	Per Metre	63.50
	400	Per Metre	68.20
	450	Per Metre	75.80
	500	Per Metre	79.20
	530	Per Metre	88.40
	560	Per Metre	95.10
	600	Per Metre	103.60
	650	Per Metre	106.30
	680	Per Metre	114.90
	700	Per Metre	132.50
	750	Per Metre	149.60
	800	Per Metre	183.50
	900	Per Metre	221.80
	1000	Per Metre	262.80
	1100	Per Metre	308.30
	1200	Per Metre	359.30
9. a.	Jointing the C.I. / DI Pipes & fittings with S/S ends excluding cost of jointing materials such as lead or lead wool and hemp yarn but including sundries such as cost of fuel for melting lead, filling with water, with a water lead up to 500 m and testing to required pressure etc., complete as BIS No.3114/85.		
	DIAMETER OF PIPE/Fittings in mm :		
	80	Each Joint	53.80
	100	Each Joint	57.70
	125	Each Joint	83.00
	150	Each Joint	86.70
	180	Each Joint	100.60
	200	Each Joint	113.40

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	225	Each Joint	127.90
	250	Each Joint	141.20
	300	Each Joint	165.70
	350	Each Joint	181.40
	380	Each Joint	207.90
	400	Each Joint	236.10
	450	Each Joint	262.30
	500	Each Joint	278.40
	530	Each Joint	302.30
	560	Each Joint	326.60
	600	Each Joint	374.80
	650	Each Joint	400.50
	680	Each Joint	407.10
	700	Each Joint	417.50
	750	Each Joint	455.20
	800	Each Joint	487.30
	900	Each Joint	566.40
	1000	Each Joint	642.30
	1100	Each Joint	724.40
	1200	Each Joint	797.20
9. b.	Jointing the C.I. Pipes, D.I. Pipes & fittings with Rubber Gasket, excluding the cost of the gasket but including all sundries filling with water with a water lead up to 500 m and testing to required pressure etc., complete as per BIS No.3114/85.		
	DIAMETER OF PIPE/Fittings in mm :		
	80	Each Joint	49.80
	100	Each Joint	53.40
	125	Each Joint	77.30
	150	Each Joint	80.60
	180	Each Joint	93.20
	200	Each Joint	107.10
	225	Each Joint	121.20
	250	Each Joint	131.60
	300	Each Joint	156.70
	350	Each Joint	169.20
	380	Each Joint	193.90
	400	Each Joint	222.40

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	450	Each Joint	247.10
	500	Each Joint	262.20
	530	Each Joint	284.60
	560	Each Joint	307.60
	600	Each Joint	356.60
	650	Each Joint	381.20
	680	Each Joint	387.40
	700	Each Joint	397.30
	750	Each Joint	433.10
	800	Each Joint	464.00
	900	Each Joint	539.00
	1000	Each Joint	611.30
	1100	Each Joint	676.40
	1200	Each Joint	740.40
10	Jointing the C.I. Pipes, fittings and valves with flanged ends excluding cost of jointing materials such as bolts, nuts, rubber insertion, white lead and including filling with water with a water lead up to 500 m and testing to required pressure etc., complete as per BIS No.3114/85.		
	DIAMETER OF PIPE/Fittings/ valve in mm :		
	80	Each Joint	63.40
	100	Each Joint	67.50
	125	Each Joint	97.50
	150	Each Joint	101.50
	180	Each Joint	118.60
	200	Each Joint	134.00
	225	Each Joint	152.60
	250	Each Joint	165.60
	300	Each Joint	198.40
	350	Each Joint	217.10
	380	Each Joint	248.20
	400	Each Joint	279.30
	450	Each Joint	313.30
	500	Each Joint	329.10
	530	Each Joint	362.90
	560	Each Joint	389.40
	600	Each Joint	459.20
	650	Each Joint	493.50

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	680	Each Joint	499.30
	700	Each Joint	513.20
	750	Each Joint	559.80
	800	Each Joint	600.10
	900	Each Joint	696.40
	1000	Each Joint	836.30
	1100	Each Joint	890.40
	1200	Each Joint	981.60
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	10.20
11b	Lowering the RCC S/S pipes carefully into the trenches, laying them true to the alignment and gradient, jointing with rubber rings 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	6.30
12	Laying, jointing of G.I. / PVC/HDPE pipes and specials/fittings including excavation upto 0.5 m depth in all soils except rock requiring blasting and re-filling trenches after laying and jointing pipes.		
a	G.I. PIPES :		
	DIA in mm		
	50	Per Metre	17.00
	40	Per Metre	17.00
	32	Per Metre	15.80
	25	Per Metre	15.80
	20	Per Metre	14.10
	15	Per Metre	14.10
b	PVC/HDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes.		
	DIA in mm		
	50	Per Metre	15.80
	40	Per Metre	15.80
	32	Per Metre	14.40

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	25	Per Metre	14.40
	20	Per Metre	13.20
	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 trenches true to alignment and gradient, jointing and testing of <u>stoneware</u> pipes excluding cost of jointing materials such as cement mortar and hemp yarn as per BIS No. 4127/83.		
	<u>DIA of Pipes in mm .</u>		
	100	Per Metre	25.80
	150	Per Metre	32.40
	200	Per Metre	36.10
	225	Per Metre	37.80
	250	Per Metre	43.20
	300	Per Metre	49.60
	400	Per Metre	55.30
	450	Per Metre	74.20
14	Lowering, laying, jointing & testing to Hydraulic Field test pressure including cost of water with minimum water lead of 500 M (Labour charges only) for PVC pipes excluding the cost of jointing materials.		
	<u>DIA of Pipes in mm .</u>		
	63	Per Metre	9.10
	75	Per Metre	9.70
	90	Per Metre	9.80
	110	Per Metre	10.50
	125	Per Metre	10.90
	140	Per Metre	11.30
	160	Per Metre	11.60
	180	Per Metre	12.20
	200	Per Metre	13.00
	225	Per Metre	13.60
	250	Per Metre	14.10
	280	Per Metre	14.80
	315	Per Metre	15.60

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
15	Lowering, laying, jointing & testing to Hydraulic Field Test pressure including cost of water with minimum water lead of 500 mts (labour charges only) for <u>HDPE pipes</u> excluding the cost of jointing materials.		
	<u>Outer Dia of pipes in MM</u>		
	63	Per Metre	20.90
	75	Per Metre	23.10
	90	Per Metre	25.40
	110	Per Metre	29.30
	125	Per Metre	35.20
	140	Per Metre	38.00
	160	Per Metre	41.40
	180	Per Metre	45.00
	200	Per Metre	48.50
	225	Per Metre	52.90
	250	Per Metre	57.30
	280	Per Metre	62.60
	315	Per Metre	124.30
	355	Per Metre	138.50
	400	Per Metre	154.30
	450	Per Metre	171.90
	NOTE:- For item 9 to 16 the element of testing charges is to be considered as 20% of the combined rate for laying, jointing and testing. This 20% shall be released only after satisfactory testing of the pipe line to the required pressure.		
16	Labour charges for lowering and keeping in position of C.I. Sluice valves, reflux valves and scour valves.		
	<u>Dia of Valve in mm.</u>		
	80	Each	26.70
	100	Each	35.20
	125	Each	46.10
	150	Each	54.50
	200	Each	100.90
	250	Each	136.40
	300	Each	206.50
	350	Each	355.40
	400	Each	435.90
	450	Each	570.70

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
17	Labour charges for fixing Air Valves including boring the mains, threading the bore and fixing nipple etc., complete.		
	<u>Dia of Air valve in mm.</u>		
	25	Each	73.10
	40	Each	83.80
	50	Each	88.70
	65	Each	94.40
	80	Each	103.70
	100	Each	121.80
	125	Each	188.70
	150	Each	206.30
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>		
	25	Each	72.80
	40	Each	83.50
	50	Each	88.10
	65	Each	94.10
	80	Each	103.30
	100	Each	121.30
	125	Each	187.90
	150	Each	205.40
19	Labour charges for fixing fire hydrants excluding cost of jointing materials.		
	65 mm	Each	83.00
	80 mm	Each	103.40
20	Uprooting C.I./ DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.	Per Metre	Observed data only
21	Uprooting of RCC pipes including breaking the collars, loosening the joint, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.	Per Metre	observed data only
22	Removing GI/PVC/HDPE pipes and specials/ fittings and clearing.		
	<u>Dia of Pipes in mm</u>		
	50	Per Metre	50% of rate for laying & jointing of corresponding pipes
	40	Per Metre	
	30	Per Metre	
	25	Per Metre	

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	20	Per Metre	
	15	Per Metre	
23	Cutting C.I./ DI Pipes without water in mains.Dia of pipes in mm.		
	<u>Dia of Pipes in mm</u>		
	80	Each cut	39.90
	100	Each cut	39.90
	125	Each cut	39.90
	150	Each cut	39.90
	180	Each cut	45.70
	200	Each cut	45.70
	225	Each cut	45.70
	250	Each cut	65.80
	300	Each cut	65.80
	350	Each cut	91.50
	380	Each cut	100.40
	400	Each cut	104.80
	450	Each cut	130.20
	500	Each cut	156.40
	530	Each cut	170.10
	560	Each cut	183.70
	600	Each cut	208.30
	680	Each cut	235.10
24	Cutting A.C. Pipes without water in mains.Dia of pipes in mm.		
	<u>Dia of Pipes in mm</u>		
	80	Each cut	16.20
	100	Each cut	16.20
	125	Each cut	16.20
	150	Each cut	16.20
	200	Each cut	17.00
	250	Each cut	27.60
	300	Each cut	27.60
	350	Each cut	34.60
	400	Each cut	38.40
	450	Each cut	47.00
	500	Each cut	52.30
	600	Each cut	58.50
25	Drilling and tapping CI/ DI Main and fixing brass screw down ferrule and plug.		
	10 mm to 20mm	Each Tapping	83.20
	25 mm to 40mm	Each Tapping	99.20

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
26	Cutting road surface including stacking of excavated materials for pipe line trench work.		
	a) Cutting open B.T. road surface (as well as asphalt concrete upto 75 mm thick) including water bound macadam	10 Sqm	258.80
	b) Cutting open C.C. road surface	1 Cum	720.00
	c) Cutting open water bound macadam road including soiling	1 Cum	88.10
27	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	23.00
	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	16.80
	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.		
28	Shoring and strutting of trenches for water and sewer main.		
	a) Single Staging from (0 to 2.5 Mts.)	10 Sqm of Shoring area	788.00
	b) Double staging from (2.5 m to 4.5 Mts.)	10 Sqm of Shoring area	1065.50
29	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.	10 RM	44.50
30	Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line		
	a) 0 to 1 m deep under water.	10 Cum	6571.80
	b) 1 to 2 m deep under water.	10 Cum	9414.00
	c) 2 to 5 m deep under water.	10 Cum	14131.40
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	2699.90
	NOTE:- The above rates do not include rock requiring blasting or chiselling		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
31	Laying and jointing glazed <u>stoneware pipes</u> including loose jointing with cement fillets and all other incidental charges for infiltration gallery, inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of Stone Ware pipes.		
	a) 200 mm to 400 mm	Per Metre	297.00
32	Laying and jointing <u>perforated RCC pipes</u> inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars.		
	per every 25 mm dia.	Per Metre	20.00
33	Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.		
a)	for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.		
	1) Slabs for thickness (150 mm to 300 mm)	One Sqm of Centering area	1463.90
	2) Slabs for thickness above (300 mm)		2926.70
	3) Side walls curved surfaces.		1106.50
	4) Side wall straight surfaces.		984.30
	5) Dome.		1198.70
	6) Roof Slab.		738.20
	7) Column footing.		807.00
	8) Column braces and beams		493.60
	9) Circular braces, ring beams & circular column.		540.80
	Note:- For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m ----- 21% 24 m and above --- 27%		
b)	For Ground level works :-		
	1) Slabs	1 Sqm	As per Common SSR
	2) Beams & Lintels	1 Sqm	
	3) Sun shades	1 Sqm	
	4) RCC vertical walls of plane surface upto 3 m height such as ground level tanks clarifiers and sludge digesters etc.	1 Sqm	452.00
	5) RCC vertical walls of circular faces upto 3 m height.	1 Sqm	576.60

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	NOTE: Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m.	10 Sqm	
34	Lift or delift of materials :		
	a) Lifting of cement concrete for RCC elevated reservoir. For every 3 m height or part thereof over the initial lift of 5 m	1 Cum	71.60
	b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of masonry ground level reservoirs, construction of masonry ground level reservoirs, inspection wells, test wells and sump wells etc., for every 2 m depth or part thereof beyond the initial depth of 4 meters from ground level.	1 Cum	21.70
35	Labour charges for fixing ventilating shafts complete with all accessories.	Each	289.60
36	Labour charges for fixing water closets including fixing of foot rests (for all sizes).	Each	Relevant Common SSR item
37	Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete	Each	
38	Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete	Each	
39	Fixing urinal with inlet and waste pipe connections etc., complete.	Each	
40	Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete	10 Cum	
41 a)	Extra allowance for isolated scattered works viz., valve pits, public fountains, meter pits and manholes etc., complete.	Each	25% extra over the cost of chamber.
41 b)	Repairs to the existing mains, interconnections, replacement of valves/specials etc., including the cutting ,jointing, bailing out of water, drying, earth work excavation etc., complete.		100% extra over the cost of work
42	Removal of wet silt and sludge from sullage drains with aid of baskets and vessels.	10 Cum	754.70
43	Well sinking in sandy and other loose soils under water either by manual labour, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc		
	Up to 2 m below GL/m	Per metre	12194.00
	From 2 to 4 m below GL/m	Per metre	14023.00
	From 4 to 6 m below GL/m	Per metre	15850.80
	From 6 to 8 m below GL/m	Per metre	17873.00

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	From 8 to 10 m below GL/m	Per metre	19757.00
	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		
44	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data
45	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.		
a	500 Kilo litres	Per litre	8.70
b	1000 Kilo litres	Per litre	7.89
c	1500 Kilo litres	Per litre	7.45
d	2000 Kilo litres	Per litre	7.12
e	2500 Kilo litres	Per litre	6.77
	NOTE: -1)For intermediate ranges proportional rates may be adopted.2) The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of <u>Rs.4,400/-</u> per tonne for cement and <u>Rs.41,500/-</u> per tonne for steel.		
	2) For stagings less than 15 m, the rate shall be reduced by Rs.0.02 paise per litre per every metre of difference in staging.		
	3) For stagings above 15 m, the rate shall be increased by Rs.0.05 paise per litre per every metre of additional staging.		
	4) Variation of above ratio due to increase / decrease in the cost of cement = $(R_c - 4400) \times 0.00007$ R _c = Rate of cement (Rs per Mt) at this time of preparation of estimate.		
	5) Variation of above ratio due to increase / decrease in the cost of steel = $(R_s - 41500) \times 0.00002$ R _s = Rate of steel (Rs per Mt) at this time of preparation of estimate.		
	6) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.		
	7) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of snowcem painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes, bends and valves as per departmental designs and drawings.		
	8) The above rates are applicable for wind pressure upto 350 kg / sq m		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	9) For tribal/Agency / Rural area, the above rates shall be increased by 10%		
	10) If the ELSR is to be designed for seismic forces also cost shall be arrived by working out detailed quantities based on the design & difference to be paid extra.		
	11) Fixtures include.		
	a) A balcony of 0.75 m width at floor slab level/ middle ring beam level / top ring beam level with RCC post with GI pipe hand railing.		
	b) C.I. Manhole frame and cover : 0.60 x 0.6 m size 2 Nos.		
	c) RCC Mosquito proof ventilators.		
	d) RCC Finial - 1 No.		
	e) RCC precast ladders 0.45 m wide - 2 Nos.		
	f) RCC dog legged stair case of 1.00 m width with hand railing - 1 No.		
	g) RCC hand railing 0.75 m height around at floor level and roof level.		
	h) Water level indicator of approved pattern - 1 No.		
	i) Lightening arrestor with all its accessories complete including earthing - 1 No.		
46	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m without Seismic analysis.		
a	Up to 10,000 Litres capacity	Per litre	33.75
b	15,000 Litres capacity	Per litre	23.25
c	20,000 Litres capacity	Per litre	22.83
d	40,000 Litres capacity	Per litre	22.16
e	60,000 Litres capacity	Per litre	16.84
f	1,00,000 Litres capacity	Per litre	15.56
g	2,00,000 Litres capacity	Per litre	13.64
h	3,00,000 Litres capacity	Per litre	12.80
i	4,00,000 Litres capacity	Per litre	11.29
j	4,50,000 Litres capacity	Per litre	9.80
	NOTE: -1) For intermediate ranges proportional rates may be adopted 2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of <u>Rs.4,400/-</u> per tonne for cement and <u>Rs.41,500/-</u> per tonne for steel.		
	2) For every metre of staging less than 15 m, the rate shall be reduced by Rs.0.02 paise per litre.		
	3) For every metre of staging above 15 m, the rate shall be increased by Rs.0.05 paise per litre.		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	4) Variation of above rates due to increase / decrease in the cost of cement = (Rc-4400) x 0.00007 Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate.		
	5) Variation of above rate due to increase / decrease in the cost of steel = (RS-41500) x 0.00002 Rs = Rate of steel (Rs per Mt) at this time of preparation of estimate.		
	6) Rate inclusive of three coats of epoxy paint to inner surface of the reservoir including roof dome.		
	7) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2coats of snowcem painting for external surfaces lettering, fixing of all required fixtures, pipes, bends, valves etc., for pipe connections, but excluding cost of pipes,bends and valves as per departmental designs and drawings.		
	8) The above rates applicable for wind pressures upto 350 kg / sq m. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.		
	9) For Tribal/Agency/ Rural area, the above rates shall be increased by 10%		
	10) If the ELSR is to be designed for seismic forces also cost shall be arrived by working out detailed quantities based on the design & difference to be paid extra.		
	11) <u>Fixtures include :</u>		
	a) RCC or Aluminium ladder inside 0.45 m wide.		
	b) Spiral staircase on the outside.		
	c) Lightning arrestor, including conductor and earthing etc.		
	d) RCC ventilators with copper or stainless steel fly proof mesh.		
	e) RCC finial ventilators with copper or stainless steel fly proof mesh		
	f) Manholes frame and cover 0.75x0.75 m with frame as per IS specifications (light duty) – 2 Nos		
	g) Railing with 32 mm dia G.I. Pipes (A class) in two rows around OHSR fixed in RCC (1:2:4) posts of size 100x75x75 mm with 1.5 m intervals around periphery on top of the OHSR for smaller capacities.		
	h) Water level indicator of good quality with ebonite/ copper float approved pattern- 1 No		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
47	Construction of Rapid Gravity Filtration Plant including civil, mechanical and electrical fully automation including trial running etc., complete.		
	1) 2.0 Mld	Per litre	2.17
	2) 5.0 Mld	Per litre	1.99
	3) 10.0 Mld	Per litre	1.82
	4) 20.0 Mld	Per litre	1.64
	5) 30.00 Mld and above	Per litre	1.44
	NOTE :-		
	a) For intermediate ranges proportional rates may be adopted		
	b) The above rates are applicable with cement @ rate of Rs.4,400/-MT and steel of 41500/MT.		
	c) Variation of above rates due to increase / decrease in the cost of cement = (Rc-4400) x 0.00007 Rc = Rate of cement (Rs per MT) at the time of preparation of estimate.		
	d) Variation of above rates due to increase / decrease in the cost of steel = (RS-41500) x 0.00002 Rs = Rate of steel (Rs per MT) at the time of preparation of estimate.		
	e) For rural areas an extra allowance of 10% shall be given on basic rate.		
	f) In case of raft foundation, additional cost involved due to provision of raft foundation shall be worked out and paid extra.		
	g) For intermediate ranges proportional rates may be adopted		
	h)The components of the Filtration Plant are as follows.		
	A) Civil Works: (all works of VRCC shall be in M30 design mix).		
	1)Stilling chamber .		
	2)Ventury flume channel with measuring devices		
	3)Flash mixer chamber		
	4)Clariflocculator 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)		
	6)Wash water tank of suitable capacity.		
	B) Mechanical Equipment		
	1)Raw water flow measuring and recording equipment.		

Sl. No.	Description	Unit	SS Rate for 2008-2009
1	2	3	4
	2)Alum dosing equipment		
	3)Flash mixer equipment		
	4)Sludge disposal fittings by gravity		
	5)Filtration plant equipment instrumentation and piping.		
	6)Clarifloccualation equipment (with stainless steel blades) with rotating bridge arrangement etc.,		
	7)Wash water tank fittings and pump sets with 100% stand by.		
	8)Air blower with motor 100% stand by and pipe connections.		
	9)Chlorination equipment and pipe connections		
	10)Automated Lab testing equipment of internationally approved make and consumables for one year. For filtration plants of capacity 10 MLD and more automated online testing equipment shall be installed		
	11)Spares & Tools for 2 years		
	C) Electrical Equipement		
	1)Necessary power supply wiring to motors and switches bus bar connections as per I.E. Rules		
	2)Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.		
	3) Erecting mechanical & Electrical equipment, trial run for 90 days 23.50 hours per day testing the treated water for efficient standards and maintenance of records and imparting training to staff.		
	4)Supply of 6 - sets of completion plans and maintenance manual and brochures.		
	5)Provision towards soil investigation.		

**PUBLIC HEALTH (PIPES AND SPECIAL)
1. S.S.RATES FOR R.C.C. PLAIN ENDED PIPES**

Sl. No.	Description				
1	2				
1	MANUFACTURE, SUPPLY AND DELIVERY OF R.C.C. PLAIN ENDED PIPES CONFORMING TO B.I.S. 458/2003 , EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES				
	Size	Unit	S S Rate For 2008-09		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	118.00		
	100 mm dia	Metre	137.00		
	150 mm dia	Metre	161.00		
	200 mm dia	Metre	191.00		
	225 mm dia	Metre	209.00		
	250 mm dia	Metre	222.00		
	300 mm dia	Metre	320.00	724.00	744.00
	350 mm dia	Metre	398.00	900.00	918.00
	400 mm dia	Metre	459.00	996.00	1017.00
	450 mm dia	Metre	563.00	1139.00	1150.00
	500 mm dia	Metre	618.00	1305.00	1420.00
	600 mm dia	Metre	914.00	1859.00	2202.00
	700 mm dia	Metre	1171.00	2309.00	2949.00
	800 mm dia	Metre	1439.00	3051.00	3853.00
	900 mm dia	Metre	1810.00	3831.00	4797.00
	1000 mm dia	Metre	2200.00	4758.00	6553.00
	1100 mm dia	Metre	2615.00	5610.00	7596.00
	1200 mm dia	Metre	3114.00	6607.00	8879.00
	1400 mm dia	Metre	4237.00	8540.00	12284.00
	1600 mm dia	Metre	4914.00	11079.00	14788.00
	1800 mm dia	Metre	6439.00	14682.00	19825.00

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

The above rates of RCC Plain ended pipes are based on the following raw materials cost.
Cement. Rs.4400/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41500/- 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. 41500/-

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

C1 = Rs. 4400/-

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:458/1988.

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

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

Sl.No.	Description				
1	2				
1	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 & DUTIES				
	Size	Unit	S S Rates for 2008-09.		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	34.00		
	100 mm dia	Each	37.00		
	150 mm dia	Each	38.00		
	200 mm dia	Each	51.00		
	225 mm dia	Each	55.00		
	250 mm dia	Each	60.00		
	300 mm dia	Each	79.00	111.00	111.00
	350 mm dia	Each	97.00	138.00	138.00
	400 mm dia	Each	105.00	157.00	157.00
	450 mm dia	Each	167.00	209.00	209.00
	500 mm dia	Each	192.00	248.00	248.00
	600 mm dia	Each	255.00	327.00	327.00
	700 mm dia	Each	333.00	440.00	440.00
	800 mm dia	Each	468.00	557.00	557.00
	900 mm dia	Each	561.00	650.00	650.00
	1000 mm dia	Each	655.00	814.00	814.00
	1100 mm dia	Each	802.00	1029.00	1029.00
	1200 mm dia	Each	975.00	1289.00	1289.00
	1400 mm dia	Each	1258.00	1633.00	1633.00
	1600 mm dia	Each	1604.00	2093.00	2093.00
	1800 mm dia	Each	1668.00	2697.00	2697.00

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

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

Cement. Rs.4,400/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,500/- 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. Rods = (S2-S1)/1000 X Ws.

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

S1 = Rs. 41500/-

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

C1 = Rs. 4400/-

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

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

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

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

Sl. No.	Description				
1	2				
1	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 & DUTIES.				
	Size	Unit	S.S. Rates for 2008-09		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	141.00		
	150 mm dia	Metre	189.00		
	200 mm dia	Metre	230.00		
	225 mm dia	Metre	251.00		
	250 mm dia	Metre	268.00		
	300 mm dia	Metre	376.00	901.00	956.00
	350 mm dia	Metre	483.00	1155.00	1176.00
	400 mm dia	Metre	534.00	1280.00	1303.00
	450 mm dia	Metre	664.00	1413.00	1425.00
	500 mm dia	Metre	765.00	1616.00	1755.00
	600 mm dia	Metre	1077.00	2265.00	2332.00
	700 mm dia	Metre	1396.00	2890.00	3031.00
	800 mm dia	Metre	1790.00	3822.00	3961.00
	900 mm dia	Metre	2259.00	4804.00	4975.00
	1000 mm dia	Metre	2740.00	5441.00	5941.00
	1100 mm dia	Metre	3221.00	6418.00	6862.00
	1200 mm dia	Metre	3655.00	7571.00	8030.00
	1400 mm dia	Metre	5191.00	10027.00	11382.00
	1600 mm dia	Metre	6420.00	13010.00	13719.00
	1800 mm dia	Metre	7231.00	17239.00	18398.00

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

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

Cement. Rs.4,400/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,500/- 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 X Ws.

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

S1 = Rs. 41500/-

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

C1 = Rs. 4400/-

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:458/1988.

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

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

Sl.No.	Description				
1	2				
1	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 & DUTIES.				
	Size	Unit	S.S. Rates for 2008-09		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Metre	186.00	209.00	238.00
	100 mm dia	Metre	210.00	250.00	290.00
	150 mm dia	Metre	289.00	374.00	460.00
	200 mm dia	Metre	336.00	482.00	637.00
	225 mm dia	Metre	379.00	548.00	710.00
	250 mm dia	Metre	415.00	588.00	748.00
	300 mm dia	Metre	560.00	847.00	1057.00
	350 mm dia	Metre	697.00	1175.00	1524.00
	400 mm dia	Metre	827.00	1554.00	2009.00
	450 mm dia	Metre	890.00	1842.00	2480.00
	500 mm dia	Metre	1177.00	2009.00	2826.00
	600 mm dia	Metre	1612.00	2994.00	3934.00
	700 mm dia	Metre	2143.00	3953.00	5011.00
	800 mm dia	Metre	2684.00	4720.00	6076.00
	900 mm dia	Metre	3243.00	5570.00	
	1000 mm dia	Metre	4081.00	6384.00	
	1100 mm dia	Metre	4893.00		
	1200 mm dia	Metre	5750.00		

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

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

Cement. Rs.4,400/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,500/- 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 X Ws.

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

S1 = Rs. 41500/-

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

C1 = Rs. 4400/-

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:458/1988.

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

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

Sl. No.	Description				
1	2				
1	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 & DUTIES.				
	Size	Unit	S.S. Rates for 2008-09		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	15.30		
	100 mm dia	Each	18.40		
	150 mm dia	Each	32.20		
	200 mm dia	Each	38.30		
	225 mm dia	Each	41.40		
	250 mm dia	Each	47.50		
	300 mm dia	Each	58.20	74.40	74.40
	350 mm dia	Each	67.40	88.80	88.80
	400 mm dia	Each	73.50	101.10	101.10
	450 mm dia	Each	84.30	114.90	114.90
	500 mm dia	Each	110.30	131.70	131.70
	600 mm dia	Each	144.00	191.50	191.50
	700 mm dia	Each	197.60	229.80	229.80
	800 mm dia	Each	249.70	278.80	278.80
	900 mm dia	Each	312.50	376.80	376.80
	1000 mm dia	Each	366.10	454.90	454.90
	1100 mm dia	Each	441.20	582.10	582.10
	1200 mm dia	Each	704.60	732.20	732.20
	1400 mm dia	Each	775.10	805.70	805.70
	1600 mm dia	Each	965.00	983.40	983.40
	1800 mm dia	Each	1202.50	1256.10	1256.10
2	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 & DUTIES.				
	Size		P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Each	15.30	15.30	15.30
	100 mm dia	Each	18.40	19.90	19.90
	150 mm dia	Each	32.20	32.20	32.20
	200 mm dia	Each	38.30	38.30	38.30
	225 mm dia	Each	41.40	42.90	44.40
	250 mm dia	Each	47.50	49.00	50.50
	300 mm dia	Each	58.20	61.30	64.30
	350 mm dia	Each	67.40	78.10	84.30
	400 mm dia	Each	73.50	101.10	104.20

	Size		P1 - Class	P2 - Class	P3 - Class
	450 mm dia	Each	84.30	116.40	119.50
	500 mm dia	Each	110.30	131.70	137.90
	600 mm dia	Each	144.00	163.90	165.40
	700 mm dia	Each	197.60	216.20	229.80
	800 mm dia	Each	249.70	275.70	275.70
	900 mm dia	Each	312.50	349.20	
	1000 mm dia	Each	366.10	421.20	
	1100 mm dia	Each	441.20		
	1200 mm dia	Each	704.60		

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

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

Sl.No.	Description	Rate upto 5 Kms Lead including Loading, unloading and 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	CONVEYANCE OF R.C.C. PLAIN ENDED PIPES ON ALL WEATHER ROADS INCLUDING LOADING, UNLOADING AND STACKING (per Metre)				
		NP - 2 Class		NP - 3 Class & NP - 4 Class	
	80 mm dia	1.90	0.10		
	100 mm dia	2.30	0.10		
	150 mm dia	3.30	0.20		
	200 mm dia	4.40	0.20		
	225 mm dia	5.10	0.30		
	250 mm dia	5.90	0.30		
	300 mm dia	8.80	0.40	23.00	0.50
	350 mm dia	11.40	0.60	24.90	0.60
	400 mm dia	13.20	0.70	29.30	0.90
	450 mm dia	16.80	0.90	32.20	1.10
	500 mm dia	18.30	1.10	35.20	1.10
	600 mm dia	26.40	1.60	52.80	2.30
	700 mm dia	33.70	2.30	58.60	2.70
	800 mm dia	39.60	2.30	70.30	2.70
	900 mm dia	45.40	2.30	92.30	5.10
	1000 mm dia	67.40	4.80	111.40	5.10
	1100 mm dia	74.00	4.80	120.10	5.50
	1200 mm dia	83.50	5.10	134.80	5.50
	1400 mm dia	101.10	5.10	183.20	5.80
	1600 mm dia	117.20	5.10	219.80	5.80
	1800 mm dia	134.80	5.10	293.00	8.10

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

S I. N o	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	CONVEYANCE OF R.C.C. SOCKET AND SPIGOT PIPES ON ALL WEATHER ROADS INCLUDING LOADING, UNLOADING AND STACKING (per Metre of effective length)				
	Size	NP - 2 & P1 Class		NP - 3 & NP - 4 Class	
	80 mm dia	2.40	0.10		
	100 mm dia	2.80	0.20		
	150 mm dia	3.90	0.20		
	200 mm dia	5.00	0.40		
	225 mm dia	6.00	0.40		
	250 mm dia	6.70	0.50		
	300 mm dia	10.00	0.60	27.50	0.80
	350 mm dia	12.50	0.70	29.30	1.00
	400 mm dia	15.10	0.90	36.60	1.80
	450 mm dia	17.30	1.00	40.30	1.80
	500 mm dia	19.40	1.10	44.00	1.90
	600 mm dia	25.60	1.80	60.10	2.70
	700 mm dia	31.10	1.90	80.60	5.40
	800 mm dia	43.20	2.90	95.20	5.40
	900 mm dia	64.50	5.30	109.90	5.40
	1000 mm dia	73.30	5.30	115.80	5.40
	1100 mm dia	82.80	5.40	124.50	5.40
	1200 mm dia	92.30	5.40	139.20	5.50
	1400 mm dia	114.30	5.40	186.10	5.50
	1600 mm dia	136.30	5.50	219.80	5.90
	1800 mm dia	168.50	5.50	293.00	8.10
		P2 - Class		P3 - Class	
	80 mm dia	2.40	0.10	2.40	0.10
	100 mm dia	2.80	0.20	2.80	0.20
	150 mm dia	3.90	0.20	3.90	0.20
	200 mm dia	5.40	0.40	7.30	0.50
	225 mm dia	7.30	0.50	8.20	0.60
	250 mm dia	7.70	0.60	9.70	0.70
	300 mm dia	14.70	0.80	16.80	0.90
	350 mm dia	18.50	1.00	23.40	1.10
	400 mm dia	22.00	1.10	31.50	1.80
	450 mm dia	27.80	1.70	38.80	1.80
	500 mm dia	31.50	1.80	47.60	2.60
	600 mm dia	41.80	1.80	68.10	3.40
	700 mm dia	61.50	3.60	100.40	5.40
	800 mm dia	82.10	5.10	127.50	5.40
	1000 mm dia	123.10	5.50		

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

Sl.No	Description					
1	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.					
	Size	Unit	S.S Rates for 2008-09			
			Class - 10	Class - 15	Class - 20	Class - 25
	80 mm dia	Rate/Metre		123.00	133.00	166.00
	100 mm dia	Rate/Metre		161.00	204.00	252.00
	125 mm dia	Rate/Metre		211.00	263.00	331.00
	150 mm dia	Rate/Metre		299.00	372.00	465.00
	200 mm dia	Rate/Metre		498.00	631.00	802.00
	250 mm dia	Rate/Metre		629.00	810.00	1016.00
	300 mm dia	Rate/Metre		884.00	1143.00	1457.00
	350 mm dia	Rate/Metre		1079.00	1402.00	1761.00
	400 mm dia	Rate/Metre		1405.00	1830.00	2270.00
	450 mm dia	Rate/Metre		1653.00	2189.00	2743.00
	500 mm dia	Rate/Metre		2051.00	2682.00	3369.00
	600 mm dia	Rate/Metre		2912.00	3795.00	4837.00
2	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					
	80 mm dia	Rate/Metre		21.00	21.00	21.00
	100 mm dia	Rate/Metre		30.00	30.00	30.00
	125 mm dia	Rate/Metre		33.00	33.00	33.00
	150 mm dia	Rate/Metre		40.00	40.00	40.00
	200 mm dia	Rate/Metre		52.00	52.00	52.00
	250 mm dia	Rate/Metre		63.00	63.00	63.00
	300 mm dia	Rate/Metre		78.00	78.00	78.00
	350 mm dia	Rate/Metre		132.00	132.00	132.00
	400 mm dia	Rate/Metre		198.00	198.00	198.00
	450 mm dia	Rate/Metre		242.00	242.00	242.00
	500 mm dia	Rate/Metre		308.00	308.00	308.00
	600 mm dia	Rate/Metre		330.00	330.00	330.00
	The above Rates of A.C pipes are based on the Cement cost of Rs.4,400/- per MT (including all taxes and freight). The Rates may be revised depending upon the increase/decrease in the cost of cement rate as per the following method. For every Rs.100/- per MT increase/decrease in the cost of cement, increase/decrease in the above rate shall be 0.72%.					
Note:	The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.					
2	Transportation of AC pressure pipes at site of work anywhere in Andhra Pradesh on motorable roads for full truck loads including transit insurance, unloading, and stacking at site of work etc. Complete (AC Couplings and Rubber rings are to be supplied free of transportation charges).					10% on the basic cost of corresponding AC Pressure pipes.

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

Sl. No.	Description					
1	2					
1	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.					
	Size	Unit	S.S Rates for 2008-09.			
			Class - 10	Class - 15	Class - 20	Class - 25
	80 mm dia	Rate/Each		64.50	67.50	78.00
	100 mm dia	Rate/Each		84.00	87.00	105.00
	125 mm dia	Rate/Each		105.00	114.00	138.00
	150 mm dia	Rate/Each		120.00	150.00	186.00
	200 mm dia	Rate/Each		222.00	237.00	303.10
	250 mm dia	Rate/Each		258.00	324.10	414.10
	300 mm dia	Rate/Each		336.10	435.10	558.10
	350 mm dia	Rate/Each		438.10	567.10	726.10
	400 mm dia	Rate/Each		675.10	882.20	1137.20
	450 mm dia	Rate/Each		810.20	1068.20	1377.30
	500 mm dia	Rate/Each		966.20	1293.20	1656.30
	600 mm dia	Rate/Each		1163.60	1449.30	1854.30

The above Rates of A.C Couplings are based on the Cement cost of Rs.4,400/- per MT (including all taxes and freight).

The Rates may be revised depending upon the increase/decrease in the cost of cement rate as per the following method.

For every Rs.100/- per MT increase/decrease in the cost of cement, increase/decrease the rate by 0.72%.

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

10. S.S.RATES FOR RUBBER RINGS TO SUIT A.C. PIPES

Sl. No.	Description					
1	2					
1	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.					
	Size	Unit	S.S Rates for 2008-09.			
			Class - 10	Class - 15	Class - 20	Class - 25
	80 mm dia	Each Set		38.70	38.70	38.70
	100 mm dia	Each Set		47.50	47.50	47.50
	125 mm dia	Each Set		62.10	62.10	62.10
	150 mm dia	Each Set		79.30	79.30	79.30
	200 mm dia	Each Set		81.30	81.30	81.30
	250 mm dia	Each Set		94.80	94.80	94.80
	300 mm dia	Each Set		95.10	95.10	95.10
	350 mm dia	Each Set		107.10	107.10	107.10
	400 mm dia	Each Set		130.80	130.80	130.80
	450 mm dia	Each Set		154.50	154.50	154.50
	500 mm dia	Each Set		178.40	178.40	178.40
	600 mm dia	Each Set		202.20	202.20	202.20

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

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

Sl.No.	Description							
1	2							
1	MANUFACTURE, SUPPLY, DELIVERY OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES CONFORMING TO IS 784/2001 Ex-factory excluding transportation, taxes & duties.							
	Size	Unit	S.S Rates for 2008-09.					
			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	2656.00	2656.00	2682.00	2707.00	2756.00	2857.00
	400 MM DIA	Metre	2857.00	2882.00	2908.00	2957.00	3008.00	3058.00
	450 MM DIA	Metre	3032.00	3058.00	3083.00	3158.00	3233.00	3308.00
	500 MM DIA	Metre	3284.00	3308.00	3333.00	3408.00	3483.00	3583.00
	600 MM DIA	Metre	3784.00	3810.00	3859.00	3985.00	4111.00	4235.00
	700 MM DIA	Metre	4637.00	4662.00	4737.00	4863.00	5038.00	5188.00
	800 MM DIA	Metre	5489.00	5538.00	5690.00	5839.00	6066.00	6290.00
	900 MM DIA	Metre	6365.00	6416.00	6566.00	6842.00	7117.00	7519.00
	1000 MM DIA	Metre	7469.00	7544.00	7769.00	8070.00	8546.00	8922.00
	1100 MM DIA	Metre	8495.00	8621.00	8871.00	9348.00	9775.00	10200.00
	1200 MM DIA	Metre	9423.00	9600.00	9925.00	10450.00	40978.00	11478.00
	1300 MM DIA	Metre	12724.00	13368.00	13973.00	14579.00	15630.00	16825.00
	1400 MM DIA	Metre	14595.00	15280.00	16156.00	17128.00	18259.00	19088.00
	1500 MM DIA	Metre	16586.00	17383.00	18195.00	19502.00	20745.00	21685.00
	1600 MM DIA	Metre	18578.00	19486.00	20410.00	22705.00	23342.00	24409.00
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	108.00	108.00	108.00	108.00	108.00	108.00
	400 MM DIA	Metre	122.00	122.00	122.00	122.00	122.00	122.00
	450 MM DIA	Metre	137.00	137.00	137.00	137.00	137.00	137.00
	500 MM DIA	Metre	144.00	144.00	144.00	144.00	144.00	144.00
	600 MM DIA	Metre	180.00	180.00	180.00	180.00	180.00	180.00

	700 MM DIA	Metre	209.00	209.00	209.00	209.00	209.00	209.00
	800 MM DIA	Metre	238.00	238.00	238.00	238.00	238.00	238.00
	900 MM DIA	Metre	266.00	266.00	266.00	266.00	266.00	266.00
	1000 MM IA	Metre	302.00	302.00	302.00	302.00	302.00	302.00
	1100 MM IA	Metre	338.00	338.00	338.00	338.00	338.00	338.00
	1200 MMDIA	Metre	367.00	367.00	367.00	367.00	367.00	367.00
	1300 MM DIA	Metre	444.00	444.00	444.00	444.00	444.00	444.00
	1400 MM DIA	Metre	492.00	492.00	492.00	492.00	492.00	492.00
	1500 MM DIA	Metre	528.00	528.00	528.00	528.00	528.00	528.00
	1600 MM DIA	Metre	600.00	600.00	600.00	600.00	600.00	600.00
3	CONVEYANCE OF PRE-STRESSED (NON-CYLINDER) CONCRETE PIPE AND ACCESSORIES including loading at Factory, un-loading at site and stacking for the following sizes.							
	350 MM DIA	PerKM/M	0.80	0.80	0.80	0.80	0.80	0.80
	400 MM DIA	PerKM/M	0.80	0.80	0.80	0.80	0.80	0.80
	450 MM DIA	PerKM/M	0.90	0.90	0.90	0.90	0.90	0.90
	500 MM DIA	PerKM/M	1.00	1.00	1.00	1.00	1.00	1.00
	600 MM DIA	PerKM/M	1.20	1.20	1.20	1.20	1.20	1.20
	700 MM DIA	PerKM/M	2.00	2.00	2.00	2.00	2.00	2.00
	800 MM DIA	PerKM/M	2.00	2.00	2.00	2.00	2.00	2.00
	900 MM DIA	PerKM/M	2.00	2.00	2.00	2.00	2.00	2.00
	1000 MM DIA	PerKM/M	3.10	3.10	3.10	3.10	3.10	3.10
	1100 MM DIA	PerKM/M	3.10	3.10	3.10	3.10	3.10	3.10
	1200 MM DIA	PerKM/M	6.10	6.10	6.10	6.10	6.10	6.10
	1300 MM DIA	PerKM/M	6.20	6.20	6.20	6.20	6.20	6.20
	1400 MM DIA	PerKM/M	6.20	6.20	6.20	6.20	6.20	6.20
	1500 MM DIA	PerKM/M	6.20	6.20	6.20	6.20	6.20	6.20
	1600 MM DIA	PerKM/M	6.90	6.90	6.90	6.90	6.90	6.90
4	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.							

	350 MM DIA	Per Pair	8750.00	8750.00	8750.00	8750.00	8750.00	8750.00
	400 MM DIA	Per Pair	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
	450 MM DIA	Per Pair	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00	11,250.00
	500 MM DIA	Per Pair	12,500.00	12,500.00	12,500.00	12,500.00	12,500.00	12,500.00
	600 MM DIA	Per Pair	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
	700 MM DIA	Per Pair	17,500.00	17,500.00	17,500.00	17,500.00	17,500.00	17,500.00
	800 MM DIA	Per Pair	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
	900 MM DIA	Per Pair	22,500.00	22,500.00	22,500.00	22,500.00	22,500.00	22,500.00
	1000 MM DIA	Per Pair	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00
	1100 MM DIA	Per Pair	27,500.00	27,500.00	27,500.00	27,500.00	27,500.00	27,500.00
	1200 MM DIA	Per Pair	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00
	1300 MM DIA	Per Pair	32,500.00	32,500.00	32,500.00	32,500.00	32,500.00	32,500.00
	1400 MM DIA	Per Pair	38,500.00	38,500.00	38,500.00	38,500.00	38,500.00	38,500.00
	1500 MM DIA	Per Pair	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00	45,000.00
	1600 MM DIA	Per Pair	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00
5	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.							
	Diameter and thickness	Unit	Rate	Diameter and thickness	Unit	Rate		
	80 mm DIA x 15 mm thick	Each Flange	600.00	500 mm DIA x 20 mm thick	Each Flange	5,610.00		
	100 mm DIA x 15 mm thick	Each Flange	800.00	600 mm DIA x 20 mm thick	Each Flange	7,050.00		
	125 mm DIA x 15 mm thick	Each Flange	940.00	700 mm DIA x 25 mm thick	Each Flange	9,950.00		
	150 mm DIA x 15 mm thick	Each Flange	1,240.00	750 mm DIA x 25 mm thick	Each Flange	10,990.00		
	200 mm DIA x 15 mm thick	Each Flange	1,530.00	800 mm DIA x 25 mm thick	Each Flange	12,250.00		
	250 mm DIA x 15 mm thick	Each Flange	2,010.00	900 mm DIA x 25 mm thick	Each Flange	14,030.00		
	300 mm DIA x 15 mm thick	Each Flange	2,280.00	1000 mm DIA x 25 mm thick	Each Flange	16,570.00		
	350 mm DIA x 18 mm thick	Each Flange	3,270.00	1050 mm DIA x 25 mm thick	Each Flange	17,520.00		
	400 mm DIA x 18 mm thick	Each Flange	4,080.00	1100 mm DIA x 25 mm thick	Each Flange	18,960.00		
	450 mm DIA x 18 mm thick	Each Flange	4,720.00	1200 mm DIA x 32 mm thick	Each Flange	25,180.00		

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.61,800/-MT (Basic+ CED+ST & freight).
and cement price of Rs.4400/- per MT (including all taxes and freight)

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

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

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

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

H1 = Rs. 61800/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4400/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

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

The rates for MS flanges are considering landed price of MS Plates of Rs.45,000/- per MT. Price variation to be released on actual weight of flange.

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

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

SI 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	S.S Rates for 2008-09.								
			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	5733.00	5733.00	5733.00	5733.00	5751.00	5824.00	5897.00	5951.00	6006.00
	450 MM DIA	Meter	6224.00	6224.00	6224.00	6261.00	6315.00	6406.00	6497.00	6552.00	6625.00
	500 MM DIA	Meter	6843.00	6843.00	6861.00	6934.00	7007.00	7098.00	7189.00	7335.00	7426.00
	600 MM DIA	Meter	8117.00	8172.00	8263.00	8372.00	8499.00	8609.00	8772.00	8918.00	9027.00
	700 MM DIA	Meter	9373.00	9500.00	9646.00	9792.00	9955.00	10083.00	10265.00	10501.00	10674.00
	800 MM DIA	Meter	11011.00	11175.00	11375.00	11575.00	11775.00	11957.00	12194.00	12440.00	12740.00
	900 MM DIA	Meter	13049.00	13268.00	13523.00	13777.00	14032.00	14269.00	14596.00	14924.00	15233.00
	1000 MM DIA	Meter	14924.00	15215.00	15525.00	15834.00	16162.00	16435.00	16817.00	17290.00	17672.00
	1100 MM DIA	Meter	17144.00	17508.00	17891.00	18273.00	18673.00	19019.00	19474.00	19984.00	21021.00
	1200 MM DIA	Meter	19674.00	20111.00	20566.00	21039.00	21494.00	21913.00	22441.00	23296.00	24033.00
	1300 MM DIA	Meter	22149.00	22677.00	23223.00	23769.00	24333.00	24825.00	26081.00	26554.00	27409.00
	1400 MM DIA	Meter	24588.00	25207.00	25844.00	26499.00	27154.00	28401.00	29211.00	29812.00	31613.00
	1500 MM DIA	Meter	29493.00	30176.00	30940.00	31668.00	32760.00	33597.00	34862.00	36764.00	37665.00
	1600 MM DIA	Meter	32696.00	33506.00	34343.00	35909.00	36864.00	37820.00	40186.00	41232.00	42251.00
	1700 MM DIA	Meter	34717.00	35654.00	36646.00	38420.00	39485.00	41460.00	43252.00	44390.00	45445.00
	1800 MM DIA	Meter	37965.00	38948.00	40859.00	42060.00	43216.00	45373.00	47275.00	48612.00	49950.00
	1900 MM DIA	Meter	43161.00	44244.00	46292.00	47584.00	49777.00	51142.00	53226.00	54655.00	56029.00
	2000 MM DIA	Meter	45300.00	47229.00	48594.00	49995.00	52452.00	53927.00	56229.00	57858.00	59295.00
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of cost of site welding and fixing of Polypropylene Diapher cloth, cost of transportation of water and emptying pipe line after completion of field testing etc.										
	400 MM DIA	Meter	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50	262.50

	450 MM DIA	Meter	304.50								
	500 MM DIA	Meter	336.00								
	600 MM DIA	Meter	399.00								
	700 MM DIA	Meter	462.00								
	800 MM DIA	Meter	525.00								
	900 MM DIA	Meter	598.50								
	1000 MM DIA	Meter	672.00								
	1100 MM DIA	Meter	745.50								
	1200 MM DIA	Meter	819.00								
	1300 MM DIA	Meter	892.50								
	1400 MM DIA	Meter	966.00								
	1500 MM DIA	Meter	1060.50								
	1600 MM DIA	Meter	1134.00								
	1700 MM DIA	Meter	1312.50								
	1800 MM DIA	Meter	1365.00								
	1900 MM DIA	Meter	1480.50								
	2000 MM DIA	Meter	1596.00								
3	CONVEYANCE OF PRE-STRES-SED (CYLINDER TYPE) CONCRETE PIPE AND ACCESSORIES including loading at Factory, un-loading at site and stacking for the following sizes.										
	400 MM DIA	Per KM/M	0.78								
	450 MM DIA	Per KM/M	0.80								
	500 MM DIA	Per KM/M	1.02								
	600 MM DIA	Per KM/M	1.22								
	700 MM DIA	Per KM/M	2.04								
	800 MM DIA	Per KM/M	2.04								
	900 MM DIA	Per KM/M	2.04								
	1000 MM DIA	Per KM/M	3.06								
	1100 MM DIA	Per KM/M	3.06								
	1200 MM DIA	Per KM/M	6.12								

Public Health Items										
1300 MM DIA	Per KM/M	6.12								
1400 MM DIA	Per KM/M	6.12								
1500 MM DIA	Per KM/M	6.12								
1600 MM DIA	Per KM/M	6.12								
1700 MM DIA	Per KM/M	7.44								
1800 MM DIA	Per KM/M	7.44								
1900 MM DIA	Per KM/M	7.44								
2000 MM DIA	Per KM/M	7.86								

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

HT Wire: - Rs.61,800/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.47,000/- (including all taxes & freight)

Cement Cost Rs. 4400/- 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 = $(H2 - H1) / 1000 \times Wh$.

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

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

H1 = Rs. 61,800/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 47,000/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4400/- 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. S.S. RATES FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES

Sl. No.	Description											
1	2											
1	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.											
	Size	Unit	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			4 -12 Kg/cm ²	14 Kg/cm ²	16 Kg/cm ²	18 Kg/cm ²	20 Kg/cm ²	22 Kg/cm ²	24 Kg/cm ²	26 Kg/cm ²	28 Kg/cm ²	30 Kg/cm ²
	250 MM DIA	Meter	3039.00	3039.00	3039.00	3039.00	3039.00	3039.00	3039.00	3039.00	3068.00	3181.00
	300 MM DIA	Meter	3425.00	3425.00	3425.00	3425.00	3425.00	3425.00	3425.00	3507.00	3640.00	3837.00
	350 MM DIA	Meter	4196.00	4196.00	4196.00	4196.00	4196.00	4196.00	4196.00	4300.00	4445.00	4697.00
	400 MM DIA	Meter	4620.00	4620.00	4620.00	4620.00	4620.00	4620.00	4832.00	5019.00	5209.00	6049.00
	450 MM DIA	Meter	5043.00	5043.00	5043.00	5096.00	5333.00	5567.00	5804.00	6039.00	6280.00	6744.00
	500 MM DIA	Meter	5625.00	5625.00	5684.00	5949.00	6240.00	6537.00	6856.00	7114.00	7661.00	7951.00
	600 MM DIA	Meter	7404.00	7404.00	7508.00	7927.00	8345.00	8727.00	9165.00	9592.00	10184.00	10547.00
	700 MM DIA	Meter	8805.00	9017.00	9608.00	10198.00	10791.00	11382.00	12170.00	12689.00	13311.00	13986.00
	800 MM DIA	Meter	10009.00	10773.00	11540.00	12283.00	13035.00	14063.00	14837.00	16040.00	16812.00	17639.00
	900 MM DIA	Meter	12405.00	12886.00	13848.00	14785.00	15723.00	16472.00	18230.00	19362.00	20374.00	21498.00
	1000 MM DIA	Meter	13991.00	15175.00	16341.00	17478.00	18619.00	20370.00	21819.00	23878.00	24997.00	26498.00
	1100 MM DIA	Meter	20146.00	20504.00	20683.00	22653.00	24874.00	26575.00	28760.00	30909.00	33004.00	35529.00
	1200 MM DIA	Meter	22259.00	22904.00	23692.00	26092.00	28617.00	31159.00	33273.00	34956.00	38967.00	42531.00
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.											
	250 MM DIA	Meter	217.00	217.00	217.00	217.00	217.00	217.00	217.00	217.00	217.00	217.00
	300 MM DIA	Meter	254.00	254.00	254.00	254.00	254.00	254.00	254.00	254.00	254.00	254.00
	350 MM DIA	Meter	302.00	302.00	302.00	302.00	302.00	302.00	302.00	302.00	302.00	302.00
	400 MM DIA	Meter	338.00	338.00	338.00	338.00	338.00	338.00	338.00	338.00	338.00	338.00
	450 MM DIA	Meter	386.00	386.00	386.00	386.00	386.00	386.00	386.00	386.00	386.00	386.00
	500 MM DIA	Meter	423.00	423.00	423.00	423.00	423.00	423.00	423.00	423.00	423.00	423.00
	600 MM DIA	Meter	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00
	700 MM DIA	Meter	604.00	604.00	604.00	604.00	604.00	604.00	604.00	604.00	604.00	604.00
	800 MM DIA	Meter	688.00	688.00	688.00	688.00	688.00	688.00	688.00	688.00	688.00	688.00

	900 MM DIA	Meter	809.00	809.00	809.00	809.00	809.00	809.00	809.00	809.00	809.00	809.00
	1000 MM DIA	Meter	894.00	894.00	894.00	894.00	894.00	894.00	894.00	894.00	894.00	894.00
	1100 MM DIA	Meter	1050.00	1050.00	1061.00	1061.00	1082.00	1082.00	1103.00	1103.00	1103.00	1103.00
	1200 MM DIA	Meter	1176.00	1176.00	1218.00	1218.00	1239.00	1239.00	1281.00	1281.00	1281.00	1365.00
3	Conveyance of Bar Wrapped steel Cylindrical (BWSC) pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes.											
	250 MM DIA	Per KM/M	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	300 MM DIA	Per KM/M	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	350 MM DIA	Per KM/M	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	400 MM DIA	Per KM/M	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	450 MM DIA	Per KM/M	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
	500 MM DIA	Per KM/M	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	600 MM DIA	Per KM/M	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	700 MM DIA	Per KM/M	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
	800 MM DIA	Per KM/M	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	900 MM DIA	Per KM/M	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	1000 MM DIA	Per KM/M	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	1100 MM DIA	Per KM/M	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70
	1200 MM DIA	Per KM/M	6.20	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60

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

HR Plates - Rs.47,000/- per MT (Basic+CED+ST & freight)

Wire rods - Rs.44,700/- per MT (Basic+CED+ST & freight)

Cement Cost Rs. 4,400/- 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. 47000/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 44700/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

C1 = Rs. 4400/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

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

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

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

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

Sl.No.	Description						
1	2						
1	GLASSFIBRE REINFORCED PLASTIC (GRP) PIPES CONFORMING TO IS 12709 - 1994 Stiffness class 124 Kpa including transportation to any where in A.P. with jointing materials i.e., Reka couplings, Rubber Gaskets etc., for jointing pipes including cost of specials, loading, un-loading and stacking etc., complete but excluding Central Excise duty and to be added sale tax.						
	Size	Unit	S.S. Rates for 2008-09.				Rs.
			3 Bar	6 Bar	9 Bar	12 Bar	15 Bar
	350 MM DIA	Metre	2664.00	2701.00	2785.00	2862.00	2994.00
	400 MM DIA	Metre	2967.00	3099.00	3212.00	3362.00	3495.00
	450 MM DIA	Metre	3481.00	3615.00	3812.00	4000.00	4228.00
	500 MM DIA	Metre	3964.00	4125.00	4361.00	4634.00	4899.00
	600 MM DIA	Metre	5038.00	5247.00	5566.00	6133.00	6418.00
	700 MM DIA	Metre	6377.00	6668.00	7085.00	7727.00	8313.00
	800 MM DIA	Metre	7806.00	8175.00	8826.00	9601.00	10367.00
	900 MM DIA	Metre	9758.00	10173.00	11052.00	11987.00	12980.00
	1000 MM DIA	Metre	11695.00	12233.00	13159.00	14351.00	15470.00
2	Cost of laying jointing, testing to Hydrostatic field test pressure including cost of transportation of water and emptying pipe line after completion of field testing.						
	Size	Unit	S.S. Rates for 2008-09.				Rs.
			3 Bar	6 Bar	9 Bar	12 Bar	15 Bar
	350 mm dia	Metre	132.00	132.00	132.00	132.00	132.00
	400 mm dia	Metre	198.00	198.00	198.00	198.00	198.00
	450 mm dia	Metre	242.00	242.00	242.00	242.00	242.00
	500 mm dia	Metre	308.00	308.00	308.00	308.00	308.00
	600 mm dia	Metre	330.00	330.00	330.00	330.00	330.00
	700 mm dia	Metre	374.00	374.00	374.00	374.00	374.00
	800 mm dia	Metre	440.00	440.00	440.00	440.00	440.00
	900 mm dia	Metre	484.00	484.00	484.00	484.00	484.00
	1000 mm dia	Meter	561.00	561.00	561.00	561.00	561.00

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

The methodology adopted for rates is as follows:

Percentage of raw materials in the finished product of the pipe

- 1) Hoop Glass Fibre Rovings H% (35%)**
- 2) Chop Glass C% (40%)**
- 3) Resin R% (25%)**

The cost of variation in Raw materials are:

- 1) Variation in cost of Hoop Glass :h%**
- 2) Variation in cost of Chop Glass :c%**
- 3) Variation in cost of Resin :r%**

The percentage of variation in cost of pipe allowed is

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

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

The rates of raw materials are:

- 1) Hoop Glass Fibre Rovings - Rs.73.50/kg (Excluding CED&ST)**
- 2) Chop Glass - Rs.102.00/kg (Excluding CED&ST)**
- 3) Resin - Rs.95.00/kg (Excluding CED&ST)**

15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2008-09. (PE - 80 Grade)

Sl. No	Description	2.5 kg/sqcm	4.0 kg/sqcm	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm
1	2	3	4			
	Manufacture, supply, & 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 & above 90 mm dia straight length in 6 M.)					
	Rate per Meter					
	OD 20 mm					16.00
	OD 25 mm					21.00
	OD 32 mm			25.00	29.00	34.00
	OD 40 mm		30.00	34.00	44.00	53.00
	OD 50 mm		43.00	55.00	69.00	83.00
	OD 63 mm	38.00	59.00	83.00	105.00	126.00
	OD 75 mm	60.00	81.00	117.00	148.00	178.00
	OD 90 mm	80.00	117.00	166.00	212.00	255.00
	OD 110 mm	113.00	175.00	250.00	317.00	377.00
	OD 125 mm	142.00	225.00	320.00	408.00	489.00
	OD 140 mm	185.00	279.00	400.00	510.00	614.00
	OD 160 mm	240.00	365.00	522.00	665.00	800.00
	OD 180 mm	298.00	460.00	657.00	843.00	1011.00
	OD 200 mm	366.00	563.00	814.00	1039.00	1246.00
	OD 225 mm	477.00	736.00	1057.00	1350.00	1624.00
	OD 250 mm	588.00	911.00	1301.00	1670.00	2005.00
	OD 280 mm	739.00	1135.00	1631.00	2090.00	2512.00
	OD 315 mm	928.00	1443.00	2068.00	2646.00	3178.00
	OD 355 mm	1129.00	1743.00	2507.00	3206.00	3857.00
	OD 400 mm	1464.00	2259.00	3258.00	4163.00	4997.00
	OD 450 mm	1848.00	2869.00	4114.00	5268.00	6331.00
	OD 500 mm	2277.00	3526.00	5085.00	6495.00	7806.00

Note:

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

The IPCL resin cost adopted for the above rates are

For PE - 80 grade Rs.75,970/- 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:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.9$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.9$ (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. S.S. RATES FOR H.D.P.E PIPES
(PE - 100 Grade) (New item)**

Sl. No	Description	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm
1	2	3	4	5
	Manufacture, supply, & 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 up to 90 mm dia in coil & above 90 mm dia straight length in 6 M.)			
	Rate per Meter			
	OD 32 mm			35.10
	OD 40 mm		45.20	54.60
	OD 50 mm	56.10	70.30	84.60
	OD 63 mm	84.70	107.60	129.40
	OD 75 mm	120.20	152.20	182.70
	OD 90 mm	170.80	217.70	261.30
	OD 110 mm	256.10	325.60	387.20
	OD 125 mm	327.90	418.80	502.00
	OD 140 mm	410.80	523.70	629.70
	OD 160 mm	535.80	682.60	820.70
	OD 180 mm	674.80	865.20	1037.10
	OD 200 mm	835.50	1066.50	1278.70
	OD 225 mm	1082.00	1382.60	1662.90
	OD 250 mm	1332.60	1709.80	2052.40
	OD 280 mm	1669.80	2139.80	2571.50
	OD 315 mm	2116.70	2708.70	3253.30
	OD 355 mm	2652.10	3388.50	4072.10
	OD 400 mm	3502.40	4468.90	5356.60

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.76,470/- per MT. (Excluding CED&ST)

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

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.9$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.9$ (for decrease in raw material cost)

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

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

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

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

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

17. S.S. RATES FOR PVC PIPES FOR THE YEAR 2008-09

Sl. No.	Description	TEST PRESSURE			
		2.5 Kgs/cm ²	4.0 Kgs/cm ²	6 Kgs/cm ²	10 Kgs/cm ²
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.	Rs.
	20				8.50
	25				13.20
	32				21.10
	40			20.90	32.30
	50			30.90	50.20
	63		33.50	47.70	73.50
	75		47.80	66.50	104.90
	90	44.00	67.40	95.30	148.70
	110	66.00	97.30	138.10	223.30
	125	84.90	126.90	174.90	291.80
	140	104.10	158.10	226.30	359.60
	160	138.40	208.50	293.90	474.30
	180	173.60	266.00	379.80	607.40
	200	221.70	323.40	461.00	738.00
	225	286.00	423.70	612.00	974.40
	250	347.10	495.20	760.20	1196.70
	280	447.00	650.50	958.30	1515.40
	315	562.70	825.70	1204.00	1911.70

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

Note: The IPCL resin cost adopted for the above rates is **Rs.52,122/- 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.

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

Sl. No.	Description	Unit	S.S. Rates for 2008-09		
			4	5	6
1	2	3	4	5	6
	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 & 2 IN STANDARD LENGTHS OF 3.66 M, 4 M, 4.5M, 5 M, 5.5 M & 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 & DUTIES.		LA Class (Rs)	A Class (Rs)	B Class (Rs)
	Nominal dia (in MM)				
	80	Rmt	696.00	756.00	811.00
	100	Rmt	847.00	932.00	994.00
	125	Rmt	1070.00	1168.00	1258.00
	150	Rmt	1296.00	1420.00	1530.00
	200	Rmt	1893.00	2055.00	2222.00
	250	Rmt	2551.00	2778.00	3005.00
	300	Rmt	3290.00	3597.00	3896.00
	350	Rmt	4205.00	4562.00	4948.00
	400	Rmt	5119.00	5595.00	6039.00
	450	Rmt	6194.00	6805.00	7340.00
	500	Rmt	7324.00	7977.00	8632.00
	600	Rmt	9687.00	10575.00	11455.00
	700	Rmt	12745.00	13924.00	15043.00
	750	Rmt	14274.00	15606.00	16930.00
	800	Rmt	15979.00	17409.00	18832.00
	900	Rmt	19471.00	24223.00	23019.00
	1000	Rmt	23392.00	25553.00	27617.00

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

Transportation Charges Extra.

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. 27,000/-

19. S.S. RATES FOR DUCTILE IRON PRESSURE PIPES

Sl. No.	Description	Unit	S.S. Rate for 2008-09	
1	2	3	4	5
1	CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE WITH SOCKET SPIGOT ENDS CONFORMING TO I.S.: 8329/2000 IN STANDARD WORKING LENGTHS OF 4, 5 5.5 & 6 METER FOR CLASSIFICATION K9 & K7 SUITABLE FOR PUSH-ON-JOINT (RUBBER GASKET D JOINTING) WITH CEMENT MORTAR LINING INSIDE THE PIPES WITH OUTSIDE ZINC COATING. RATES ARE EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES.			
	Nominal Dia in mm	Rmt	K9	K7
	100	Rmt	921.00	817.00
	150	Rmt	1362.00	1104.00
	200	Rmt	1818.00	1576.00
	250	Rmt	2386.00	2114.00
	300	Rmt	3022.00	2715.00
	350	Rmt	3768.00	3415.00
	400	Rmt	4542.00	4145.00
	450	Rmt	5434.00	4983.00
	500	Rmt	6322.00	5937.00
	600	Rmt	8338.00	7899.00
	700	Rmt	10777.00	10219.00
	750	Rmt	12093.00	11447.00
	800	Rmt	13344.00	12653.00
	900	Rmt	16274.00	15437.00
	1000	Rmt	19295.00	18301.00
2	CENTRIFUGALLY CAST (SPUN) DUCTILE IRON PRESSURE PIPES FOR WATER, GAS AND SEWAGE WITH PLAIN ENDS CONFORMING TO I.S.: 8329/2000 IN STANDARD WORKING LENGTHS OF 4, 5, 5.5 & 6 METER FOR CLASSIFICATION K9 & K7 WITH CEMENT MORTAR LINING INSIDE THE PIPES WITH OUTSIDE ZINC COATING. RATES ARE EX-FACTORY, EXCLUDING TRANSPORTATION, TAXES & DUTIES.			
	Nominal Dia in mm		K9	K7
	100	Rmt	846.00	698.00
	150	Rmt	1242.00	1005.00
	200	Rmt	1688.00	1425.00
	250	Rmt	2239.00	1854.00
	300	Rmt	2833.00	2438.00
	350	Rmt	3521.00	3061.00
	400	Rmt	4242.00	3704.00
	450	Rmt	5013.00	4435.00
	500	Rmt	5983.00	5277.00
	600	Rmt	7723.00	6988.00
	700	Rmt	9797.00	9247.00
	750	Rmt	10978.00	10341.00
	800	Rmt	12120.00	11438.00
	900	Rmt	14656.00	13832.00
	1000	Rmt	17423.00	16443.00
	CENTRIFUGALLY CAST (SPUN) DUCTILE			

			5.0 Mt. Length	
	100	Each	6636.00	
	150	Each	9659.00	
	200	Each	13136.00	
	250	Each	17377.00	
	300	Each	21950.00	
	350	Each	29941.00	
	400	Each	36239.00	
	450	Each	43206.00	
	500	Each	51510.00	
	600	Each	70142.00	
	700	Each	86306.00	
	800	Each	106633.00	
	900	Each	131845.00	
	1000	Each	157903.00	

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

Transportation Charges Extra.

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.8329-1994.

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. 27,000/-

20. S.S. RATES FOR DUCTILE IRON FITTINGS

Sl. No.	Description	Unit	S.S Rates for 2008-09
1	2	3	4
	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.		
I	DI double socket branch flange Tee		
	Nominal dia in mm		
	80 x 80	Each	960.70
	100 x 80	Each	1105.60
	100 x 100	Each	1249.20
	150 x 80	Each	1543.80
	150 x 100	Each	1689.90
	150 x 150	Each	2061.30
	200 x 80	Each	2129.40
	200 x 100	Each	2278.00
	200 x 150	Each	2723.70
	200 x 200	Each	3237.40
	250 x 80	Each	2686.60
	250 x 100	Each	2884.60
	250 x 150	Each	3386.20
	250 x 200	Each	3924.60
	250 x 250	Each	4655.00
	300 x 80	Each	3398.60
	300 x 100	Each	3788.40
	300x 150	Each	4679.80
	300x 200	Each	4908.90
	300x 250	Each	6097.60
	300 x 300	Each	6530.70
	350 x 80	Each	5289.60
	350 x 100	Each	4863.30
	350 x 150	Each	6384.00
	350 x 200	Each	6382.40
	350 x 250	Each	8208.00
	350 x 300	Each	10032.00
	350 x 350	Each	9458.30
	400 x 80	Each	5640.30
	400 x 100	Each	5880.60
	400 x 150	Each	6704.10
	400 x 200	Each	7521.90
	400 x 250	Each	10032.00
	400 x 300	Each	9488.80

	400 x 350	Each	11856.00
	400 x 400	Each	12198.50
	450 x 80	Each	7934.40
	450 x 100	Each	7154.30
	450 x 150	Each	8937.60
	450 x 200	Each	9849.60
	450 x 250	Each	9863.00
	450 x 300	Each	12220.80
	450 x 350	Each	15504.00
	450 x 400	Each	15595.20
	450 x 450	Each	15777.60
	500 x 80	Each	9955.20
	500 x 100	Each	9129.40
	500 x 150	Each	12004.80
	500 x 200	Each	11339.10
	500 x 250	Each	14640.00
	500 x 300	Each	15030.40
	500 x 350	Each	16787.20
	500 x 400	Each	16445.10
	500 x 450	Each	19520.00
	500 x 500	Each	20066.80
	600 x 80	Each	14737.60
	600 x 100	Each	15128.00
	600 x 150	Each	16104.00
	600 x 200	Each	15277.00
	600 x 250	Each	17665.60
	600 x 300	Each	19520.00
	600 x 350	Each	22448.00
	600 x 400	Each	23912.00
	600 x 450	Each	27816.00
	600 x 500	Each	28304.00
	600 x 600	Each	32208.00
	700X200	Each	26224.80
	700X400	Each	37632.00
II	DI All socket Tees		
	Nominal dia in mm		
	80 x 80	Each	877.70
	100 x 80	Each	1022.60
	100 x 100	Each	1099.40
	150 x 80	Each	1462.10
	150 x 100	Each	1541.30
	150 x 150	Each	1832.30
	200 x 80	Each	2048.90
	200 x 100	Each	2191.30
	200 x 150	Each	2494.60
	200 x 200	Each	2940.30
	250 x 80	Each	2606.10

		Public Health Items	
	250 x 100	Each	2679.00
	250 x 150	Each	3157.10
	250 x 200	Each	3565.60
	250 x 250	Each	4085.60
	300 x 80	Each	4120.00
	300 x 100	Each	3701.70
	300 x150	Each	4779.20
	300x 200	Each	4605.50
	300 x250	Each	5768.00
	300 x 300	Each	5750.80
	350x80	Each	5289.60
	350x100	Each	5380.80
	350x150	Each	6201.60
	350x200	Each	6840.00
	350x250	Each	8208.00
	350x300	Each	9120.00
	350x350	Each	9302.40
	400x80	Each	6657.60
	400x100	Each	6566.40
	400x150	Each	8208.00
	400x200	Each	8390.40
	400x250	Each	9576.00
	400x300	Each	10944.00
	400x350	Each	11582.40
	400x400	Each	11856.00
	450x80	Each	8025.60
	450x100	Each	8208.00
	450x150	Each	9576.00
	450x200	Each	10488.00
	450x250	Each	10944.00
	450x300	Each	12768.00
	450x350	Each	13680.00
	450x400	Each	15048.00
	450x450	Each	15321.60
	500x80	Each	10248.00
	500x100	Each	10443.20
	500x150	Each	12200.00
	500x200	Each	12688.00
	500x250	Each	14640.00
	500x300	Each	15616.00
	500x350	Each	17080.00
	500x400	Each	18056.00
	500x450	Each	19520.00
	500x500	Each	20008.00
	600x80	Each	16201.60
	600x100	Each	16396.80

	600x150	Each	16592.00
	600x200	Each	16787.20
	600x250	Each	18056.00
	600x300	Each	20496.00
	600x350	Each	22350.40
	600x400	Each	23424.00
	600x450	Each	26352.00
	600x500	Each	28304.00
	600x600	Each	29280.00
III	DI double socket concentric TAPERS		
	Nominal dia in mm		
	100 x 80	Each	576.90
	150 x 80	Each	939.60
	150 x 100	Each	938.40
	200x80	Each	1584.00
	200 x 100	Each	1448.40
	200 x 150	Each	1441.00
	250x80	Each	2224.80
	250x100	Each	2142.40
	250 x 150	Each	2036.50
	250 x 200	Each	1962.20
	300x100	Each	3131.20
	300 x 150	Each	2791.70
	300x 200	Each	2779.30
	300 x 250	Each	2575.10
	350 x 150	Each	4560.00
	350 x 200	Each	4002.10
	350 x 250	Each	3846.00
	350 x 300	Each	3627.30
	400x200	Each	6201.60
	400 x 250	Each	5000.80
	400 x 300	Each	4844.70
	400 x 350	Each	4438.90
	450x200	Each	7752.00
	450x250	Each	7387.20
	450x300	Each	6748.80
	450 x 350	Each	5949.90
	450 x 400	Each	5562.70
	500x250	Each	9564.80
	500x300	Each	9369.60
	500 x 350	Each	8156.00
	500 x 400	Each	7652.70
	500x450	Each	8296.00
	600x300	Each	14054.40
	600x350	Each	14542.40
	600x400	Each	13664.00
	600x450	Each	13273.60

	600 x 500	Each	10727.60
IV	DI Flanged socket	PN-10	PN-16
	Nominal dia in mm	Rate/Each	
	80	640.60	640.60
	100	726.70	726.70
	150	1131.20	1131.20
	200	1619.40	1619.40
	250	2128.70	2128.70
	300	2740.30	2740.30
	350	3778.00	3778.00
	400	4556.80	4556.80
	450	5323.10	5323.10
	500	6896.10	6896.10
	600	10248.00	10248.00
V	DI Flanged Spigot	PN-10	PN-16
	Nominal dia in mm	Rate/Unit	
	80	648.00	648.00
	100	807.90	807.90
	150	1073.60	1073.60
	200	1379.20	1379.20
	250	1972.10	1972.10
	300	2721.10	2721.10
	350	3576.10	3576.10
	400	4876.70	4876.70
	450	5982.70	5982.70
	500	7251.20	7251.20
	600	9810.40	9810.40
VI	DI double Socket Duck foot bend (New Items)		
	80	Each	1148.80
	100	Each	1465.60
	150	Each	2455.20
	200	Each	4118.40
	250	Each	6509.60
	300	Each	8734.40
	350	Each	13132.80
	400	Each	16416.00
	450	Each	20976.00
	500	Each	32208.00
	600	Each	42944.00
VII	DI double Flange Duck foot bend.(New Items)		
	80	Each	1408.00
	100	Each	1689.60
	150	Each	2912.80
	200	Each	4752.00
	250	Each	7843.20
	300	Each	10852.80

	350	Each	15550.40
	400	Each	19200.00
	450	Each	27200.00
	500	Each	38729.60
	600	Each	50540.00
VIII	DI All socket Cross. (New Items)		
	Nominal dia in mm		
	80 x 80	Each	1267.20
	100 x 80	Each	1465.60
	100 x 100	Each	1584.00
	150 x 80	Each	1853.60
	150 x 100	Each	2059.20
	150 x 150	Each	2692.80
	200 x 80	Each	2676.80
	200 x 100	Each	2883.20
	200 x 150	Each	3801.60
	200 x 200	Each	4118.40
	250 x 80	Each	3708.00
	250 x 100	Each	4037.60
	250 x 150	Each	4284.80
	250 x 200	Each	5273.60
	250 x 250	Each	6262.40
	300 x 80	Each	4779.20
	300 x 100	Each	4861.60
	300 x 150	Each	5438.40
	300 x 200	Each	6468.80
	300 x 250	Each	6756.80
	300 x 300	Each	8569.60
	350x80	Each	6748.80
	350x100	Each	6840.00
	350x150	Each	8116.80
	350x200	Each	8208.00
	350x250	Each	9211.20
	350x300	Each	11856.00
	350x350	Each	12403.20
	400x80	Each	8572.80
	400x100	Each	8618.40
	400x150	Each	8664.00
	400x200	Each	8709.60
	400x250	Each	14500.80
	400x300	Each	15412.80
	400x350	Each	15504.00
	400x400	Each	15686.40
	450x80	Each	10214.40
	450x100	Each	10396.80
	450x150	Each	12403.20
	450x200	Each	12585.60

Public Health Items

	450x250	Each	17145.60
	450x300	Each	17875.20
	450x350	Each	19060.80
	450x400	Each	19972.80
	450x450	Each	20428.80
	500x80	Each	13273.60
	500x100	Each	13371.20
	500x150	Each	16104.00
	500x200	Each	16299.20
	500x250	Each	21472.00
	500x300	Each	21569.60
	500x350	Each	21960.00
	500x400	Each	23814.40
	500x450	Each	26840.00
	500x500	Each	26547.20
	600x80	Each	21179.20
	600x100	Each	21276.80
	600x150	Each	21374.40
	600x200	Each	21667.20
	600x250	Each	28499.20
	600x300	Each	28401.60
	600x350	Each	28987.20
	600x400	Each	31329.60
	600x450	Each	38259.20
	600x500	Each	39040.00
	600x600	Each	39040.00
IX	DI All Flange Tee. (New Items)		
	Nominal dia in mm		
	80 x 80	Each	1408.00
	100 x 80	Each	1584.00
	100 x 100	Each	1672.00
	150 x 80	Each	2464.00
	150 x 100	Each	2552.00
	150 x 150	Each	2816.00
	200 x 80	Each	3608.00
	200 x 100	Each	3801.60
	200 x 150	Each	3960.00
	200 x 200	Each	4312.00
	250 x 80	Each	5836.80
	250 x 100	Each	5928.00
	250 x 150	Each	6292.80
	250 x 200	Each	6931.20
	250 x 250	Each	7022.40
	300 x 80	Each	7569.60
	300 x 100	Each	7897.60
	300 x150	Each	8755.20
	300x 200	Each	8664.00

Public Health Items

	300 x250	Each	9393.60
	300 x 300	Each	10305.60
	350x80	Each	11100.00
	350x100	Each	11200.00
	350x150	Each	11300.00
	350x200	Each	11760.00
	350x250	Each	13300.00
	350x300	Each	13700.00
	350x350	Each	15300.00
	400x80	Each	13500.00
	400x100	Each	14000.00
	400x150	Each	14900.00
	400x200	Each	14500.00
	400x250	Each	15200.00
	400x300	Each	15800.00
	400x350	Each	16800.00
	400x400	Each	17000.00
	450x80	Each	17400.00
	450x100	Each	17600.00
	450x150	Each	18400.00
	450x200	Each	18600.00
	450x250	Each	19400.00
	450x300	Each	19500.00
	450x350	Each	20000.00
	450x400	Each	20800.00
	450x450	Each	22500.00
	500x80	Each	22131.20
	500x100	Each	22344.00
	500x150	Each	22663.20
	500x200	Each	22876.00
	500x250	Each	23408.00
	500x300	Each	28408.80
	500x350	Each	28621.60
	500x400	Each	28834.40
	500x450	Each	30856.00
	500x500	Each	31388.00
	600x80	Each	37133.60
	600x100	Each	37240.00
	600x150	Each	38304.00
	600x200	Each	39368.00
	600x250	Each	39580.80
	600x300	Each	39900.00
	600x350	Each	40432.00
	600x400	Each	40964.00
	600x450	Each	41496.00
	600x500	Each	42560.00

	600x600	Each	45220.00
	700X200	Each	38192.00
	700X400	Each	49280.00
	700X700	Each	73920.00
	750X200	Each	46076.80
	750X400	Each	56918.40
	750X750	Each	84515.20
	800X200	Each	50512.00
	800X400	Each	62832.00
	800X600	Each	94864.00
	800X800	Each	98067.20
	900X200	Each	63448.00
	900X400	Each	73920.00
	900X600	Each	118272.00
	900X900	Each	139216.00
	1000X200	Each	88704.00
	1000X400	Each	133324.80
X	DI All Flange Cross. (New Items)		
	Nominal dia in mm		
	80 x 80	Each	1936.00
	100 x 80	Each	2068.00
	100 x 100	Each	2288.00
	150 x 80	Each	3256.00
	150 x 100	Each	3432.00
	150 x 150	Each	3696.00
	200 x 80	Each	4400.00
	200 x 100	Each	4576.00
	200 x 150	Each	5280.00
	200 x 200	Each	5808.00
	250 x 80	Each	7752.00
	250 x 100	Each	7934.40
	250 x 150	Each	8846.40
	250 x 200	Each	9758.40
	250 x 250	Each	10032.00
	300 x 80	Each	10761.60
	300 x 100	Each	10852.80
	300 x150	Each	11308.80
	300x 200	Each	11947.20
	300 x250	Each	12129.60
	300 x 300	Each	13041.60
	350x80	Each	15600.00
	350x100	Each	15800.00
	350x150	Each	16000.00
	350x200	Each	16600.00
	350x250	Each	17100.00
	350x300	Each	17200.00
	350x350	Each	18900.00

	400x80	Each	18200.00
	400x100	Each	20000.00
	400x150	Each	20100.00
	400x200	Each	20600.00
	400x250	Each	20900.00
	400x300	Each	15300.00
	400x350	Each	23500.00
	400x400	Each	23600.00
	450x80	Each	22600.00
	450x100	Each	24400.00
	450x150	Each	24500.00
	450x200	Each	24550.40
	450x250	Each	25200.00
	450x300	Each	25300.00
	450x350	Each	28700.00
	450x400	Each	29700.00
	450x450	Each	30300.00
	500x80	Each	32771.20
	500x100	Each	33303.20
	500x150	Each	33409.60
	500x200	Each	33835.20
	500x250	Each	35644.00
	500x300	Each	36920.80
	500x350	Each	37878.40
	500x400	Each	39261.60
	500x450	Each	40112.80
	500x500	Each	40432.00
	600x80	Each	48199.20
	600x100	Each	48412.00
	600x150	Each	48624.80
	600x200	Each	49476.00
	600x250	Each	49795.20
	600x300	Each	50965.60
	600x350	Each	51923.20
	600x400	Each	55434.40
	600x450	Each	55860.00
	600x500	Each	56392.00
	600x600	Each	57668.80
XI	DI double Flange Reducer (New Items)		
	Nominal dia in mm		
	100 x 80	Each	880.00
	150 x 80	Each	1496.00
	150 x 100	Each	1584.00
	200x80	Each	2244.00
	200 x 100	Each	1760.00
	200 x 150	Each	1953.60
	250x80	Each	2918.40

	250x100	Each	3100.80
	250 x 150	Each	2736.00
	250 x 200	Each	2827.20
	300x100	Each	3830.40
	300 x 150	Each	3830.40
	300x 200	Each	3639.20
	300 x 250	Each	3648.00
	350 x 150	Each	4195.20
	350 x 200	Each	4377.60
	350 x 250	Each	4468.80
	350 x 300	Each	4560.00
	400x200	Each	5700.00
	400 x 250	Each	5800.00
	400 x 300	Each	5900.00
	400 x 350	Each	6000.00
	450x200	Each	8000.00
	450x250	Each	7700.00
	450x300	Each	7800.00
	450 x 350	Each	7000.00
	450 x 400	Each	6748.80
	500x250	Each	12129.60
	500x300	Each	11704.00
	500 x 350	Each	11810.40
	500 x 400	Each	12023.20
	500x450	Each	12342.40
	600x300	Each	18194.40
	600x350	Each	15747.20
	600x400	Each	15960.00
	600x450	Each	16172.80
	600 x 500	Each	16385.60
	700X600	Each	34496.00
	750X600	Each	38438.40
	800X700	Each	44352.00
	900X800	Each	55440.00
	1000X900	Each	70560.00
XII	Blank Flange		
	700	Each	22579.20
	750	Each	25166.40
	800	Each	30693.60
	900	Each	39984.00
	1000	Each	57288.00
XIII	Mechanical Joint		
A.	80 mm		
	MJ-Double Socket bend-90 degree	Each	1900.80
	MJ-Double Socket bend-45 degree	Each	1786.40
	MJ-Double Socket bend-22.5 degree	Each	1733.60
	MJ-Double Socket bend-11.25 degree	Each	1698.40

	MJ-All Socket Tee-90 degree	Each	2701.60
	MJ-All Socket flanged branch Tee-90 degree	Each	2349.60
	MJ-Collar	Each	1601.60
	MJ-Flanged Socket-90 degree	Each	1311.20
B.	100 mm	Each	
	MJ-Double Socket bend-90 degree	Each	1848.00
	MJ-Double Socket bend-45 degree	Each	1786.40
	MJ-Double Socket bend-22.5 degree	Each	1733.60
	MJ-Double Socket bend-11.25 degree	Each	1698.40
	MJ-All Socket Tee-100X80	Each	2534.40
	MJ-All Socket Tee-100X100	Each	2666.40
	MJ-Double Socket flanged branch Tee-100X80	Each	2349.60
	MJ-Double Socket flanged branch Tee-100X100	Each	2376.00
	MJ-Double Socket Reducer-100X80	Each	2024.00
	MJ-Collar	Each	1821.60
	MJ-Flanged socket	Each	1311.20
C	150 mm		
	MJ-Double Socket bend-90 degree	Each	3256.00
	MJ-Double Socket bend-45 degree	Each	2992.00
	MJ-Double Socket bend-22.5 degree	Each	2842.40
	MJ-Double Socket bend-11.25 degree	Each	2772.00
	MJ-All Socket Tee-150X80	Each	3872.00
	MJ-All Socket Tee-150X100	Each	3960.00
	MJ-All Socket Tee-150X150	Each	4752.00
	MJ-Double Socket flanged branch Tee-150X80	Each	3520.00
	MJ-Double Socket flanged branch Tee-150X100	Each	3696.00
	MJ-Double Socket flanged branch Tee-150X150	Each	4136.00
	MJ-Double Socket Reducer-150X80	Each	2332.00
	MJ-Double Socket Reducer-150x100	Each	2393.60
	MJ-Collar	Each	2833.60
	MJ-Flanged socket	Each	1988.80
D	200 mm		
	MJ-Double Socket bend-90 degree	Each	4857.60
	MJ-Double Socket bend-45 degree	Each	4004.00
	MJ-Double Socket bend-22.5 degree	Each	3740.00
	MJ-Double Socket bend-11.25 degree	Each	3608.00
	MJ-All Socket Tee-200X80	Each	
	MJ-All Socket Tee-200X100	Each	5016.00
	MJ-All Socket Tee-200X150	Each	5772.80
	MJ-All Socket Tee-200X200	Each	6424.00
	MJ-Double Socket flanged branch Tee-200X80	Each	4153.60
	MJ-Double Socket flanged branch Tee-200X100	Each	4620.00
	MJ-Double Socket flanged branch Tee-200X150	Each	5148.00
	MJ-Double Socket flanged branch Tee-200X200	Each	5764.00
	MJ-Double Socket Reducer-200X80	Each	3036.00
	MJ-Double Socket Reducer-200x100	Each	3044.80
	MJ-Double Socket Reducer-200x150	Each	3388.00
	MJ-Collar	Each	3696.00
	MJ-Flanged socket	Each	2772.00

E	250 mm		
	MJ-Double Socket bend-90 degree	Each	6676.00
	MJ-Double Socket bend-45 degree	Each	5764.00
	MJ-Double Socket bend-22.5 degree	Each	5262.40
	MJ-Double Socket bend-11.25 degree	Each	5034.40
	MJ-All Socket Tee-250X80	Each	6548.00
	MJ-All Socket Tee-250X100	Each	6639.20
	MJ-All Socket Tee-250X150	Each	7870.40
	MJ-All Socket Tee-250X200	Each	8235.20
	MJ-All Socket Tee-250X250	Each	9211.20
	MJ-Double Socket flanged branch Tee-250X80	Each	6174.40
	MJ-Double Socket flanged branch Tee-250X100	Each	6265.60
	MJ-Double Socket flanged branch Tee-250X150	Each	7223.20
	MJ-Double Socket flanged branch Tee-250X200	Each	7542.40
	MJ-Double Socket flanged branch Tee-250X250	Each	8363.20
	MJ-Double Socket Reducer-250X80	Each	4012.80
	MJ-Double Socket Reducer-250x100	Each	4195.20
	MJ-Double Socket Reducer-250x150	Each	4532.80
	MJ-Double Socket Reducer-250x200	Each	4624.00
	MJ-Collar	Each	5198.40
	MJ-Flanged socket	Each	3884.80
F	300 mm		
	MJ-Double Socket bend-90 degree	Each	8919.20
	MJ-Double Socket bend-45 degree	Each	7733.60
	MJ-Double Socket bend-22.5 degree	Each	6976.80
	MJ-Double Socket bend-11.25 degree	Each	6639.20
	MJ-All Socket Tee-300X80	Each	8208.00
	MJ-All Socket Tee-300X100	Each	8299.20
	MJ-All Socket Tee-300X150	Each	9667.20
	MJ-All Socket Tee-300X200	Each	10032.00
	MJ-All Socket Tee-300X250	Each	11491.20
	MJ-All Socket Tee-300X300	Each	12312.00
	MJ-Double Socket flanged branch Tee-300X80	Each	7824.80
	MJ-Double Socket flanged branch Tee-300X100	Each	7916.00
	MJ-Double Socket flanged branch Tee-300X150	Each	9056.00
	MJ-Double Socket flanged branch Tee-300X200	Each	9375.20
	MJ-Double Socket flanged branch Tee-300X250	Each	10834.40
	MJ-Double Socket flanged branch Tee-300X300	Each	11472.80
	MJ-Double Socket Reducer-300x100	Each	5563.20
	MJ-Double Socket Reducer-300x150	Each	5836.80
	MJ-Double Socket Reducer-300x200	Each	5608.80
	MJ-Double Socket Reducer-300x250	Each	6019.20
	MJ-Collar	Each	6748.80
	MJ-Flanged socket	Each	5052.80
G	350 mm		
	MJ-Double Socket bend-90 degree	Each	12970.40
	MJ-Double Socket bend-45 degree	Each	11820.00

	MJ-Double Socket bend-22.5 degree	Each	10720.00
	MJ-Double Socket bend-11.25 degree	Each	10120.00
	MJ-All Socket Tee-350X80	Each	11980.00
	MJ-All Socket Tee-350X100	Each	12080.00
	MJ-All Socket Tee-350X150	Each	13800.00
	MJ-All Socket Tee-350X200	Each	14280.00
	MJ-All Socket Tee-350X250	Each	16870.40
	MJ-All Socket Tee-350X300	Each	17600.00
	MJ-All Socket Tee-350X350	Each	18800.00
	MJ-Double Socket flanged branch Tee-350X80	Each	11570.40
	MJ-Double Socket flanged branch Tee-350X100	Each	11610.40
	MJ-Double Socket flanged branch Tee-350X150	Each	13100.00
	MJ-Double Socket flanged branch Tee-350X200	Each	13500.00
	MJ-Double Socket flanged branch Tee-350X250	Each	15900.00
	MJ-Double Socket flanged branch Tee-350X300	Each	16500.00
	MJ-Double Socket flanged branch Tee-350X350	Each	17400.00
	MJ-Double Socket Reducer-350x150	Each	8400.00
	MJ-Double Socket Reducer-350x200	Each	8470.40
	MJ-Double Socket Reducer-350x250	Each	8820.00
	MJ-Double Socket Reducer-350x300	Each	8950.40
	MJ-Collar	Each	9550.40
	MJ-Flanged socket	Each	7700.00
H	400 mm		
	MJ-Double Socket bend-90 degree	Each	16700.00
	MJ-Double Socket bend-45 degree	Each	14520.00
	MJ-Double Socket bend-22.5 degree	Each	12870.40
	MJ-Double Socket bend-11.25 degree	Each	11620.00
	MJ-All Socket Tee-400X80	Each	14080.00
	MJ-All Socket Tee-400X100	Each	14180.00
	MJ-All Socket Tee-400X150	Each	16080.00
	MJ-All Socket Tee-400X200	Each	16580.00
	MJ-All Socket Tee-400X250	Each	19900.00
	MJ-All Socket Tee-400X300	Each	21100.00
	MJ-All Socket Tee-400X350	Each	22200.00
	MJ-All Socket Tee-400X400	Each	23200.00
	MJ-Double Socket flanged branch Tee-400X80	Each	13700.00
	MJ-Double Socket flanged branch Tee-400X100	Each	13800.00
	MJ-Double Socket flanged branch Tee-400X150	Each	15400.00
	MJ-Double Socket flanged branch Tee-400X200	Each	15800.00
	MJ-Double Socket flanged branch Tee-400X250	Each	19000.00
	MJ-Double Socket flanged branch Tee-400X300	Each	20000.00
	MJ-Double Socket flanged branch Tee-400X350	Each	20800.00
	MJ-Double Socket flanged branch Tee-400X400	Each	21800.00
	MJ-Double Socket Reducer-400x200	Each	10500.00
	MJ-Double Socket Reducer-400x250	Each	10600.00
	MJ-Double Socket Reducer-400x300	Each	10700.00
	MJ-Double Socket Reducer-400x350	Each	11300.00

	MJ-Collar	Each	10800.00
	MJ-Flanged socket	Each	9300.00
I	450 mm		
	MJ-Double Socket bend-90 degree	Each	21600.00
	MJ-Double Socket bend-45 degree	Each	16500.00
	MJ-Double Socket bend-22.5 degree	Each	15500.00
	MJ-Double Socket bend-11.25 degree	Each	14450.40
	MJ-All Socket Tee-450X80	Each	16400.00
	MJ-All Socket Tee-450X100	Each	16600.00
	MJ-All Socket Tee-450X150	Each	18800.00
	MJ-All Socket Tee-450X200	Each	19200.00
	MJ-All Socket Tee-450X250	Each	24100.00
	MJ-All Socket Tee-450X300	Each	25100.00
	MJ-All Socket Tee-450X350	Each	26300.00
	MJ-All Socket Tee-450X400	Each	27300.00
	MJ-All Socket Tee-450X450	Each	28100.00
	MJ-Double Socket flanged branch Tee-450X80	Each	16100.00
	MJ-Double Socket flanged branch Tee-450X100	Each	16200.00
	MJ-Double Socket flanged branch Tee-450X150	Each	18100.00
	MJ-Double Socket flanged branch Tee-450X200	Each	18500.00
	MJ-Double Socket flanged branch Tee-450X250	Each	23000.00
	MJ-Double Socket flanged branch Tee-450X300	Each	24000.00
	MJ-Double Socket flanged branch Tee-450X350	Each	24900.00
	MJ-Double Socket flanged branch Tee-450X400	Each	25900.00
	MJ-Double Socket flanged branch Tee-450X450	Each	26940.00
	MJ-Double Socket Reducer-450x200	Each	13100.00
	MJ-Double Socket Reducer-450x250	Each	12800.00
	MJ-Double Socket Reducer-450x300	Each	12900.00
	MJ-Double Socket Reducer-450x350	Each	13400.00
	MJ-Double Socket Reducer-450x400	Each	13400.00
	MJ-Collar	Each	12500.00
	MJ-Flanged socket	Each	11200.00

...Contd next page

1	2	3	4	5	6
XIV	DI double socket Bends PN 10/16				
	Nominal dia in mm Rate/Each	90°	45°	22½ °	11¼°
	80	647.20	575.20	506.30	502.60
	100	794.80	719.20	647.50	644.70
	150	1450.90	1157.50	1077.00	1005.20
	200	2327.40	1881.70	1650.20	1512.80
	250	3311.70	2568.90	2191.30	2036.50
	300	4809.80	3639.90	3107.50	2810.30
	350	7523.10	5156.90	4264.20	3777.20
	400	9782.90	6523.70	5232.30	4707.20
	450	12797.70	8565.50	6855.00	5974.70
	500	16869.90	11293.00	9067.40	7771.70
	600	26052.40	17343.70	13772.70	11697.20
	700	-	28868.20	22682.20	19589.10
	750	-	35054.30	25775.20	21032.60
	800	-	39178.30	29383.70	24434.90
	900	-	56434.10	42325.60	34728.70
	1000	-	78790.70	57899.20	45364.30
XV	DI double Flange Bends (New Items) PN 10/16	90°	45°	22½ °	11¼°
	Nominal dia in mm Rate/Each				
	80	852.70	810.10	784.50	767.40
	100	1023.30	1023.30	938.00	938.00
	150	1790.70	1620.20	1449.60	1449.60
	200	2686.00	2345.00	2046.50	2148.80
	250	5125.60	4948.80	3534.90	3534.90
	300	7069.80	6786.80	5302.30	4683.70
	350	8914.70	7461.20	6492.20	6201.60

	400	11434.10	9496.10	9302.30	9108.50
	450	16472.90	11627.90	11434.10	11143.40
	500	18970.50	19382.90	18145.70	17114.70
	600	30517.80	29796.10	22166.70	22166.70
	700	59689.90	45364.30	-	-
	750	70672.90	43693.00	-	-
	800	77832.60	61003.10	-	-
	900		80820.20	-	-
	1000		135441.90	-	-

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

Transportation Charges Extra.

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 special/fitting in kg each.

P2 = Revised rate of special/fitting in Rs.

P1 = Rate of special/fitting in Rs. 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. 27,000/-

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

Sl. No.	Description	Unit	S.S Rates For 2008-09
1	2	3	4
1	MANUFACTURE AS PER BIS 12820/89 WITH S.B.R. QUALITY RUBBER CONFIRMING TO BIS: 5382/85, SUPPLY AND DELIVERY OF RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES ANYWHERE IN A.P. F.O.R. DESTINATION DEPARTMENTAL STORES INCLUDING COST OF MATERIAL, LOADING, INCIDENTAL HANDLING WITH COMPANYS STANDARD PACKING, TRANSPORTATION, UNLOADING & STACKING BUT EXCLUDING CENTRAL EXCISE DUTY, SALES TAX, OCTROI AND OTHER GOVT. LEVIES ETC., COMPLETE.		
	80mm dia	Each	35.00
	100mm dia	Each	55.00
	125mm dia	Each	55.00
	150mm dia	Each	80.00
	200mm dia	Each	98.00
	250mm dia	Each	109.00
	300mm dia	Each	167.00
	350mm dia	Each	211.00
	400mm dia	Each	230.00
	450mm dia	Each	248.00
	500mm dia	Each	344.00
	600mm dia	Each	407.00
	700mm dia	Each	541.00
	750mm dia	Each	601.00
	800mm dia	Each	721.00
	900mm dia	Each	870.00
	1000mm dia	Each	952.00

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

22. RATES FOR CI PIPES AND SPECIALS

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, transit risk and delivery any where in A.P. for the year 2008-09. Rs.
1	2	3	4
	MANUFACTURE, SUPPLY AND DELIVERY OF CAST IRON PIPES AND FITTINGS (Spl.) CONFORMING TO I.S. No. 7181/1986, 5531/1988, 3950/1979 AND C.I.D. JOINTS CONFIRMING TO IS No.8794/1988 AT SITE OF WORK ANYWHERE IN A.P. INCLUDING, LOADING, UNLOADING, TRANSPORTATION TO SITE OF WORK STACKING AT SITE TRANSIT RISK AND PACKAGE, EXCLUDING TAXES AND DUTIES.	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	52.90

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.27000/- per M.T.(excluding CED, Tax & Fright)

Coke : Rs.24900/- 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.

23. RATES FOR C.I. D/F VALVES

Rate Each in Rs.

Sl.No.	Description	Rs.	Rs.	Rs.
1	2	3	4	5
1	Manufacture, Supply and delivery of CI D/F Sluice valves conforming to IS 14846/2000 with amendments No. 1&2 heavy duty with CI grade FG 260 as per IS: 210. Two coats of primer suitable for EPOXY PAINTS finish shall be applied to all metal surface and finally two coats of Epoxy Paint. The Valves shall be tested for (closed end Test) against Hydrostatic test requirement. The rates are excluding transportation, Central Excise duty and sale tax etc., The operation can be done with <u>handwheel/cap</u>. ISI Marked.			
	DIA IN MM	PN-1.0	PN-1.6	
	Rate/Each			
	50	3640.00	4368.00	
	65	4022.00	4827.00	
	80	255.00	5105.00	
	100	5673.00	6807.00	
	125	7090.00	8509.00	
	150	8509.00	10210.00	
	200	14914.00	17592.00	
	250	21094.00	25345.00	
	300	28956.00	33437.00	
2	Manufacture, Supply and delivery of CI D/F <u>Sluice valves Non-rising stem</u> conforming to IS 14846/2000 with amendments No. 1&2 heavy duty with CI grade FG 260 as per IS: 210 . Two coats of primer suitable for EPOXY PAINTS finish shall be applied to all metal surface and finally two coats of Epoxy Paint. The Valves shall be tested for (closed end Test) against Hydrostatic test requirement. The rates are excluding transportation, Central Excise duty and sale tax etc., <u>including the cost for enclosed Spur Gear Arrangement with thrust bearing for easy operation.</u> ISI Marked.			
	DIA IN MM	Rs.	Rs.	
	Rate/Each			
	350	65113.00	71629.00	
	400	77184.00	89548.00	
	450	96914.00	112411.00	
	500	111183.00	129168.00	

	600	162851.00	191519.00	
	700	269698.00		
	750	378949.00		
	800	441870.00		
	900	525008.00		
	1000	811200.00		
	1100	916500.00		
	1200	1092000.00		
Note:	By Pass arrangement extra @ 7.5% for above 500mm dia. Valves.			
3	Manufacture, Supply and delivery of CI D/F Non Return Valve Heavy Duty Round Body conforming to IS 5312/Part1/1984. excluding transportation, Central Excise duty and sale tax etc., complete.			
	DIA IN MM	P.N 0.6	PN-1.0	PN-1.6
	Rate/Each			
	50			2236.00
	65			2795.00
	80			3355.00
	100			4472.00
	125			5590.00
	150		6708.00	8384.00
	200		13380.00	16725.00
	250		19405.00	24258.00
	300		29195.00	36492.00
	350	40166.00		49306.00
	400	51324.00		64149.00
	450	86449.00		108068.00
	500	104278.00		130355.00
	600	166599.00		208255.00
4	Manufacture, Supply and delivery of CI D/F Kinetic Double Air Valve Heavy Duty suitable for working pressure up to 16kg/Cm2 without isolating valve, conforming to IS 14845 excluding transportation, Central Excise duty and sale tax etc., complete.			
	DIA IN MM	Rate/Each	PN-1.0	
	40		2638.00	
	50		3188.00	
	80		4264.00	
	100		5714.00	
	150		12873.00	
	200		21317.00	

5	Manufacture, Supply and delivery of CI D/F Double Air Valve suitable for working pressure up to 10kg/Cm² conforming to G & K Fig.H7 excluding transportation, Central Excise duty and sale tax etc., complete.			
	DIA IN MM	Rate/Each	PN-1.0	
	40		1637.00	
	50		2261.00	
	80		3132.00	
	100		3886.00	
	150		10126.00	
	200		17661.00	
6	Manufacture, Supply and delivery of CI D/F Kinetic Air Valve as per IS:14845 Heavy Duty with isolating valve bevel gear operated as per IS 14846 excluding transportation, Central Excise duty and sales tax etc., complete.			
	DIA IN MM	Rate/Each	PIN 1.0	PIN 1.6
	40		7506.00	8633.00
	50		8759.00	10074.00
	80		11539.00	13265.00
	100		15894.00	18288.00
	150		31317.00	36027.00
	200		46701.00	53710.00
7	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	10% on basic cost of valves		

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

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

Sl. No.	Description	PN-1.0	PN-1.6
1	2	3	4
1	Manufacture, supply and delivery of CI D/F Gate (Sluice) Valve (Soft Seated) as per IS: 11335/1995 with body bonnet of Cast Iron of grade FG 260 as per IS 210-1978 wedge fully rubber lined with EPDM and seals of NBR and the valves should be of vacuum tight and 100% Leak proof with face to face dimensions as per IS : 14846-2000. All the valves should be with Electrostatic powder coating both inside and outside with pocket less body passage, excluding transportation, Central Excise duty and sale tax etc., complete.		
	DIA IN MM	Rate/Each	Rs.
	50	4480.00	4927.00
	80	5737.00	6310.00
	100	7579.00	8337.00
	150	12396.00	13634.00
	200	19976.00	21973.00
	250	27430.00	30173.00
	300	46400.00	51039.00
	350	141700.00	153400.00
	400	153400.00	165100.00
2	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	10% on basic cost of valves	

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

25. S.S.RATES FOR C.I. BUTTERFLY VALVES (WAFER LUGGED)
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURES		
		3	4	5
1	Manufacture, Supply and delivery of CI Wafer Lug type Butterfly Valves conforming to IS 13095/1991 (Reaffirmed 1998) excluding transportation, CED and taxes etc., complete. Operation done with worm actuator ISI marked Rate at Ex-Factory.	PN-0.6	PN-1.0	PN-1.6 (New Item)
	DIA IN MM Rate / Each	Rs.	Rs.	Rs.
	40	2,025.00	2,124.00	2,564.00
	50	2,192.00	2,310.00	2,786.00
	65	2,594.00	2,717.00	3,335.00
	80	3,199.00	3,377.00	4,076.00
	100	4,286.00	4,508.00	5,706.00
	125	5,360.00	5,638.00	7,114.00
	150	6,422.00	6,761.00	8,596.00
	200	10,004.00	10,498.00	14,820.00
	250	14,326.00	15,067.00	23,465.00
	300	19,760.00	23,218.00	30,875.00
	350	29,887.00	31,122.00	42,546.00
	400	36,062.00	37,915.00	51,858.00
	450	46,313.00	48,783.00	66,629.00
	500	62,491.00	65,702.00	89,748.00
	600	91,020.00	95,713.00	111,224.00
	700	18,480.00	139,555.00	167,118.00
	800	187,103.00	191,611.00	209,950.00
	900	232,180.00	237,861.00	261,820.00
	1000	284,050.00	290,719.00	338,390.00
	1100	335,920.00	343,577.00	444,600.00
	1200	380,380.00	397,670.00	523,640.00
2	Manufacture, Supply and delivery of CI Wafer type Butterfly Valves conforming to IS 13095/1991 excluding transportation, CED and taxes etc., complete. Operation without worm actuator. (ISI marked) Rate at Ex-Factory.		PN-1.0	PN-1.6
	DIA IN MM Rate / Each			
	80		2,265.00	2,588.00
	100		3,088.00	3,530.00
	125		4,245.00	4,852.00
	150		4,762.00	5,442.00
	200		13,124.00	14,998.00

	250		20,835.00	23,811.00
	300		27,448.00	31,369.00
3	Manufacture, Supply and delivery of CI D/F Butterfly Valves manually gear operated conforming to IS 13095/1991 excluding transportation, CED and taxes etc., complete. ISI marked Rate at Ex-Factory.		PN-1.0	PN-1.6
	DIA IN MM Rate / Each			
	300		32,533.00	37,181.00
	350		50,340.00	57,532.00
	400		60,273.00	68,883.00
	450		70,422.00	80,483.00
	500		83,044.00	94,908.00
	600		97,757.00	111,723.00
	700		146,723.00	167,683.00
	750		172,935.00	197,639.00
	800		184,191.00	210,504.00
	900		230,130.00	263,006.00
	1000		296,403.00	338,746.00
	1100		391,221.00	447,109.00
	1200		459,137.00	524,727.00
	1300		648,375.00	741,000.00
	1400		735,258.00	840,294.00
	1500		838,911.00	958,755.00
	1600		1,089,962.00	1,245,670.00
	1800		1,238,829.00	1,415,804.00
	2000		1,668,831.00	1,907,235.00

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

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

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

Sl. No.	Description	TEST PRESSURE				Additional charges for Flanged ended valves
		10 Kgs/cm ²	15 Kgs/cm ²	20 Kgs/cm ²	25 Kgs/cm ²	
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.					
	DIA IN MM Rate/Each	Rs.	Rs.	Rs.	Rs.	
	100					
	125					
	150	56,472.00	65,918.00	69,813.00	76,795.00	
	200	58,995.00	67,844.00	72,934.00	80,225.00	
	250	66,563.00	76,548.00	82,289.00	90,518.00	
	300	74,909 .00	86,145.00	92,607.00	101,867.00	
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.					
	DIA IN MM Rate/ Each	Rs.	Rs.	Rs.	Rs.	Rs.
	350	76,158.00	87,581.00	94,150.00	103,565.00	6,599.00
	400	84,181.00	96,807.00	104,069.00	114,479.00	7,957.00
	450	97,910.00	112,597.00	121,041.00	133,146.00	9,509.00
	500	113,158.00	130,131.00	139,892.00	153,882.00	10,286.00
	525/550	121,546.00	138,173.00	152,180.00	167,399.00	13,293.00
	600	136,091.00	156,504.00	168,242.00	185,066.00	18,963.00
	650	152,339.00	167,574.00	190,473.00	205,610.00	21,445.00
	700	177,567.00	195,421.00	222,008.00	239,765.00	25,616.00
	750	196,683.00	216,379.00	245,877.00	265,575.00	28,760.00
	800	239,594.00	275,535.00	296,198.00	325,816.00	32,408.00
	900	284,773.00	327,488.00	345,431.00	387,256.00	39,201.00
	1000	345,431.00	345,431.00	345,431.00	480,014.00	49,777.00
	1050	348,886.00	348,886.00	348,886.00	505,417.00	51,768.00
	1100	440,095.00	499,033.00	544,080.00	598,489.00	57,637.00
	1200	529,694.00	582,674.00	663,791.00	715,121.00	65,205.00
	1400	794,541.00	874,010.00	995,687.00	1,072,680.00	97,808.00
	1500	925,776.00	1,018,344.00	1,157,194.00	1,249,667.00	91,695.00

	1600	944,291.00	1,038,710.00	1,180,339.00	1,274,659.00	93,529.00
3	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.					
	DIA IN MM Rate/Each	Rs.	Rs.	Rs.	Rs.	
	100	49,293.00	56,687.00	62,355.00	68,589.00	
	150	74,909.00	86,145.00	94,758.00	104,235.00	
	200	79,954.00	91,947.00	101,142.00	111,256.00	
4	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	10% on basic cost of valves				

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

27. RATES FOR CAST STEEL VALVES FOR THE YEAR 2008-09

Sl.No.	Description	TEST PRESSURES			
1	2	3	4	5	6
1	Manufacture, Supply and delivery of Cast Carbon Steel 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 Body 425PSI Seat 300 PSI PN-20	Class-300 Body 1100 PSI Seat 750 PSI PN-30	FOR Enclosed Spur Gear Arrangement.	
	Rate/Each			Class 150	Class 300
	DIA IN MM	Rs.	Rs.	Rs.	
	40	4,394	8,788		
	50	7,241	13,182		
	65	9,061	16,478		
	80	10,868	19,773		
	100	14,495	26,364		
	125	18,590	33,800		
	150	21,749	39,546		
	200	35,126	71,403	42,991	78,553
	250	49,439	112,385	57,304	119,535
	300	62,452	141,960	70,317	149,110
	350	83,278	189,280	94,003	199,030
	400	169,169	384,475	179,894	394,225
	450	189,618	422,500	200,343	432,250
	500	223,080	507,000	233,805	516,750
	600	254,683	577,980	265,408	587,730
	700	492,635		503,360	
	750	529,815		544,830	
	800	613,470		628,485	
	900	725,010		740,025	
	1000	929,500		944,515	
	1100	1,003,860		1,018,875	
	1200	1,133,990		1,149,005	

2	Manufacture, Supply and delivery of Cast Carbon Steel Bolted Cover Non Return Valve as per IS : 5312 / Part1 / 1984. Round body heavy duty material spec. As per IS:1030/1989 with SS Hinge & Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete ISI Marked				
	Rate/Each	PN-20	PN-30		
	DIA IN MM		Rs.		
	40	4,368	7,943		
	50	6,500	11,830		
	65	8,125	14,788		
	80	9,750	17,745		
	100	13,377	23,660		
	125	16,731	30,420		
	150	18,395	33,462		
	200	27,885	60,840		
	250	39,039	101,400		
	300	55,770	126,750		
	350	74,360	169,000		
	400	152,438	346,450		
	450	171,028	388,700		
	500	200,772	456,300		
	600	232,375	528,125		
3	Manufacture, Supply and delivery of Cast Steel Multi Door Type Non return Valve as per IS; 5312/ Part II / 1984 Heavy duty material spec. as per 1030/1989 with SS hinges & Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete ISI Marked				
			Rate/Each		
	DIA IN MM		Rs.		
	500		338,000		
	600		422,500		
	700		507,000		
	750		625,300		
	800		929,500		
	900		1,115,400		
	1000		1,216,800		
	1100		1,436,500		
	1200		1,453,400		
4	Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.	10% on basic cost of valves			

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

28. SS RATES FOR DI D/F VALVES FOR THE YEAR 2008-09

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. Epoxy powder coating (EP-P) inside and outside colour blue . Drilled as per IS:1538.				
	DIA IN MM	PN 10	PN 16	PN 25	
	50	25473	25473	32775	
	80	33983	33983	33983	
	100	39675	39675	45626	
	150	48300	48300	55200	
	200	52900	52900	61525	
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 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		
	50	6,098	6,098		
	80	7,809	7,809		
	100	10,316	10,316		
	150	16,871	16,871		
	200	27,186	27,186		
	250	37,331	37,331		
	300	63,149	63,149		
	350	184,261	184,261		
	400	203,640	203,640		

3	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 nickel weld overlay micro finished, 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 504:80 or BS 5155 or IS:13095. Drilled as per IS:1538.				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	<u>PN 40</u>
	400	141,850	160,710	187,113	265,227
	450	155,726	172,835	220,118	
	500	157,207	185,564	295,084	327,750
	600	206,041	290,909	342,502	359,127
	700	406,760	489,472	645,064	
	800	440,977	607,546	941,495	
	900	694,233	813,519		
	1000	809,681	1,011,882	1,365,228	
	1100	934,019			
	1200	1,121,536	1,390,689	1,525,131	
4	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, 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 . Shafts of stainless steel, shaft baring of zinc free bronze and seat faces with nickel weld over lay, micro finished. All the inside and outside of the body is to be coated with double coating of epoxy liquid. Drilled as per IS:1538. Dimensions as per I.S 5312 or equivalent codes.				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	<u>PN 40</u>
	200	65,594	69,496	101,922	133,407
	250	72,187	76,559	123,786	156,415
	300	90,485	95,867	150,696	190,926
	350	106,497	112,887	171,417	208,418
	400	129,370	137,106	173,570	225,708
	500	164,488	174,445	219,989	289,485
	600	246,790	261,625	324,300	419,175
	700	356,213	388,470	474,835	602,140
	800	445,395	485,415	598,748	758,540

	NEW ITEM				
5	Manufacture, supply and delivery of DI (Ductile Iron) Wafer Lug Butterfly valves conforming to IS 13095 BIS/CM/L-6419976 with PTEE bush upto 300mm and PTEE with gunmetal backup above 300 mm dia with liquid epoxy coating. With hand lever below 150 mm with Worm actuator 150 mm and above excluding transportation, CED and taxes etc, completed				
	DIA IN MM	PN 10	PN 16		
	80	5210	5710		
	100	7325	7925		
	125	10674	11374		
	150	12432	13432		
	200	18596	20186		
	250	25788	27788		
	300	45675	48675		
	350	58964	63964		
6	Manufacture and supply of "Anti-Shock - Air Release - Vacuum Break - Surge Alleviation" Valve for potable water to maximum 70°C. Construction material Cylindrical Body of Ductile Iron GGG-50/SG-500-7, DIN 1693, BS 2789, or equivalent grade 420-12. 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 minimum 200µ ral 5017. Hydrostatic Test (1) High Pressure strength and leak test 1.5 x PN (for 2 Minutes) (2) Low Head Leak Test at 0.5 bar (7.3 psi) for 2 minutes. (3) "DROP TEST" for every 10th valve of same size and pressure rating must be subjected to small orifice function test. Connection (1) Flange connection as per IS 1538, ISO 7005, DIN 2501(2) Female (BSP/NTP Threaded for sizes 25 mm				
	DIA IN MM	PN 10	PN 16	PN 25	
	25 mm dia	11660	-	-	
	50 mm dia	-	37575	37575	
	80 mm dia	-	58950	58950	
	100 mm dia	-	65000	65000	
	150 mm dia	-	133300	133300	
	200 mm dia	-	200200	200200	

7	<p>Manufacturer and supply of Resilient Seated Gate Valve as per BS 5163, DIN 3230 or equivalent including Hand wheel. For water and sewage applications with working temperature of-10D C to 70° C. The material construction of Body, Bonnet, hand wheel of ductile iron GGG-50/SG 500/7, DIN 1693, BS 2874. or equivalent Wedge having core of ductile iron GGG-50/SG500 -7 or equivalent and integral wedge nut of dezincification resistant brass CZ132 to BS 2874 or equivalent with fully encapsulated by vulcanized EPDM chlorine resistant rubber approved by WRc wedge tested 500 open & close operations'1, stem of stainless steel grade A1 SI 420 with tensile strength 800 N/mm2, Stem sealing shall be maintenance free not requiring any replacement during the service lifetime of the valve - It shall include NBR Rubber dirt seal, 2 NBR O-rings inside and 2 outside a plastic bearing, EPDM rubber manchette, round EPDM rubber gasket between body and bonnet, thrust collar Dezincification resistant brass CZ 132 to BS 2872, or equivalent bonnet bolts stainless steel A2 sealed with hot melt, internally and externally electrostatically applied epoxy powder coated to DIN 30677 with coating thickness 250 to 450 micron. Leakage tested for seat 1.1 x PN and body 1x51.5 x PN. Torque values for closing/ Free Running/ Rupture Torques (Nm) must be less than DIN 3352 part 4. Flange connection as per IS 1538, ISO 7005.<u>10 years warranty</u></p>				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>	<u>PN 25</u>	
	DN 050	6,338	6,338	10,306	
	DN 080	7,814	7,814	12,706	
	DN100	10,301	10,301	14,407	
	DN150	16,220	16,220	24,030	
	DN200	26,954	26,954	40,532	
	DN 250	39,132	39,132	60,203	
	DN300	56,420	56,420	97,650	
	DN350	170,823	170,823	285,755	
	DN 400	179,166	179,166	290,653	
	DN 450 With By-pass	308,243	308,243	579,405	
	DN 500 With By-pass	327,334	327,334	615,289	
	DN 600 With By-pass	421,512	421,512	792,315	

8	<p>Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass & gear operated, for water and sewage applications with working temperature of-10° C to 70° C. 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 Aluminium Bronze BS EN 1982 CC331G/equivalent, Stem of Stainless steel BS EN 100881.4057 or equivalent . 'O' Seal Body/Cover is of EPDM. Gland Packing of PTFE WRc listed, Fastners is of Steel Sheraplex coated to BS 3692 Gr 8.8 or equivalent. Body and Bonnet internally and externally blue two pack epoxy to WIS 4-52-01 Class B. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538.10 years warranty</p>			
	DIA IN MM	PN 10	PN 16	
	DN700	1,080,039	1,080,039	
	DN800	1,365,553	1,365,553	
	DN 900	1,543,628	1,543,628	
	DN 1000	1,729,506	1,729,506	
	DN 1100	2,678,623	2,678,623	
	DN 1200	2,356,607	2,356,607	
	DN 1400	6,711,898	6,711,898	
	DN 1600	10,638,898	10,638,898	
	DN1800	15,871,625	15,871,625	
9	<p>Manufacturer and Supply of Double Flanged, Double Eccentric Butterfly Valve, Face to Face dimensions to DIN 3202 - F4 long pattern (BS EN 558; 1996). with Gear box, for water application, working pressure PN 10/16 and working temperature of-10° C to 70° C, Butterfly valve shall be suitable for ON/OFF tight shut-off, capable of use for regulation flow service. The material construction of Body. Disc and Seat retaining ring of ductile iron GGG-40/SG400/ 12, DIN 1693, or equivalent Shaft of Stainless Steel DIN W 1.4021μ, Seat ring, O-ring of EPDM or NBR rubber, Bearing, bushes of Aluminum bronze to DIN 1714 BS 1400, Thrust plate, spacer is of Dezincification brass, CZ132 to BS 2872, or equivalent Coating Electro statically applied epoxy resin to DIN 30677 or enamel to DIN 3475 or equivalent. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538.10 years warranty</p>	t		
	DIA IN MM	PN 10	PN 16	
	DN 700	429,196	429,196	

	DN 800	459,560	459,560		
	DN 900	576,712	576,712		
	DN 1000	722,935	722,935		
	DN 1200	968,651	968,651		
	DN 1400	2,081,819	2,081,819		
	DN 1600	2,482,376	2,482,376		
	DN 1800	3,044,778	3,044,778		
	DN 2000	5,201,268	5,201,268		
	DN 2200	7,509,052	7,509,052		
10	Manufacture and supply of Concentric Butterfly Valve short body as per ISO 5752, BS 5155, DIN 3202 F-16 with gear box. Designed for Maintenance Free with Free Replacement Against Damage of Inside Rubber Lining: within 10 Years of Warranty Period. For water application to max 120 °C. Valve shall be hindrance free flow, drop tight at closure and capable of regulating flow. Construction material Body and Disc of Ductile Iron GGG-40/SG400/12 DIN 1693, BS 2789 grade 400-12. EPDM rubber liner vulcanized to the body, externally Electro statically applied epoxy minimum 200µ ral 5017, Shaft of Stainless Steel AISI431/equivalent, Leakage tested for seat 1.1 x PN and body 1.5 x PN. Flange connection as per IS 1538, ISO 7005.				
	DIA IN MM	PN 10	PN 16		
	DN 350 Gear Operated	133,282	133,282		
	DN 400 Gear Operated	184,326	184,326		
	DN 450 Gear Operated	235,300	235,300		
	DN 500 Gear Operated	259,297	259,297		
	DN 600 Gear Operated	415,832	415,832		
	DN 700 Gear Operated	534,819	534,819		
	DN 800 Gear Operated	651,228	651,228		
	DN 900 Gear Operated	897,446	897,446		
	DN 1000 Gear Operated	1,057,867	1,057,867		

11	<p>Manufacture and supply of <u>Concentric Butterfly Valve</u> short body as per ISO 5752, BS 5155+B105, DIN 3202 F-16 or equivalent with gear box. Designed for Maintenance Free with Free Replacement Against Damage of Inside Rubber Lining within 10 Years of Warranty Period. For water application to max 120 °C. Valve shall be hindrance free flow, drop tight at closure and capable of regulating flow. Construction material Body and Disc of Ductile Iron GGG-40/SG 400-12 DIN 1693, BS 2789 or equivalent grade. EPDM rubber liner vulcanized to the B121body, externally Electro statically applied epoxy minimum 200µ ral 5017, Shaft of Stainless Steel AISI 431 Leakage tested for seat 1.1 x PN and body 1.5 x PN. Flange connection as per IS 1538, ISO 7005.B71</p>				
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>		
	DN 1200 Gear Operated	1,456,490	1,580,860		
	DN 1400 Gear Operated	1,809,969	1,903,288		
	DN 1600 Gear Operated	2,949,036	3,180,968		
	DN 1800 Gear Operated	4,746,666	5,093,316		
	DN 2000 Gear Operated	5,656,135	6,141,753		
12	<p>Manufacture and supply of <u>Resilient Seated Swing Check Valve</u>, Face to Face to DIN 3202 F-6, BS5153 short, with and without lever and weight. For application of potable water and sewage to maximum 70 °C. Construction material Body, Bonnet and Hinge of Ductile Iron GGG-50 /SG500-7 DIN 1693, BS 2789 or equivalent grade 420-12. Disc is having core of ductile iron GGG-50/SG500-7 or equivalent with fully encapsulated by vulcanized EPDM chlorine resistant rubber approved by WRc Coating internally and externally Electro statically applied epoxy minimum 200µ ral 5017, Shaft of Stainless Steel AISI431 Leakage tested for seat 1.1 x PN and body 1.5 x PN. Flange connection as per IS 1538, ISO 7005</p>	-			
	DIA IN MM	<u>PN 10</u>	<u>PN 16</u>		
	Without Lever & Weight				
	DN 050	22,332	22,332		
	DN080	21,109	21,109		
	DN100	24,616	24,616		
	DN 150	36,914	36,914		
	DN200	50,340	50,340		
	DN250	105837	105837		
	DN 300	119627	119627		

	With Lever & Weight				
	DN 050	24,337	24,337		
	DN080	23,113	23,113		
	DN100	27,112	27,112		
	DN 150	40,344	40,344		
	DN200	54,357	54,357		
	DN250	113,112	113,112		
	DN 300	126,902	126,902		
13	Manufacturer and supply of <u>Dismantling Joint</u> For water, gas and sewage applications working temperature maximum up to 70" C and pressure 16 bars. The Dismantling joint enables easy installation and dismantling of valves, metering equipment, pump etc. It compensates for axial displacement of the pipe during installation / dismantling. The material construction of Flange outer / inner body, gland ring of mild steel BS EN 10025 or equivalent grade FE 430 A; Coating of Epoxy resin to DIN 30677 and WIS 4-52-01 internally and externally to max 200 Rubber seals of EPDM rubber; Threaded rod, stud bolt, nut of steel 4.8 Zinc plated and passivated, grade 8.8. Connecting two flanged ends above ground or In chamber. Flange connection as per IS 1538, ISO 7005, DIN 2501. Leakage tested for water 1.5 x PN. DN mm				
	DIA IN MM	PN 10	PN 16		
	80	10,969	10,969		
	100	12,678	12,678		
	150	20,903	20,903		
	200	29,356	29,356		
	250	43,173	43,173		
	300	55,642	55,642		
	350	66,386	66,386		
	400	83,209	83,209		
	450	95,557	95,557		
	500	122,485	122,485		
	600	166,235	166,235		
	700	184,533	184,533		
	800	236,742	236,742		
	900	272,596	272,596		
	1000	347,555	347,555		
	1100	393,708	393,708		
	1200	536,953	536,953		
	1300	595,443	595,443		
	1400	662,183	662,183		
	1600	861,527	861,527		

14	Manufacture, Supply and delivery of DI D/F Swing Check Valves non return valve with Body and Disc of ductile cast iron GGG 40/SG 400-12 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions and disc encapsulated with minimum thickness of 250 microns powder or liquid Epoxy coating applied on both body and disc inside and outside (DN100 to DN300).				
	DIA IN MM	PN 10	PN 16		
	100	25758	28620		
	150	43254	48060		
	200	67104	71095		
	250	73848	78321		
	300	92568	98074		

NOTE:-All the prices are ex-godown /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. S.S RATES FOR SFRC MAN-HOLE FRAME WITH COVERS

Sl.No.	Description	Unit	S.S. Rates for 2008-09.
1	2	3	4
I	Manufacture as per BIS:12592 (Part 1&2) Supply & Delivery of manhole covers and frames with ISI marking anywhere in A.P., F.O.R. destination including, loading, unloading & stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable. <u>I.S.I Mark</u>		Rs.
a)	M.D. -10 with 500mm dia clear opening	Each	1069.00
b)	H.D.-20 with 500mm dia clear opening	Each	1378.00
	H.D.-20 with 560mm dia clear opening	Each	1478.00
	H.D.-35 with 560mm dia clear opening.	Each	1584.00
	New Items :		
	24x24 MD 10	Each	1165.00
	24x18 MD 10	Each	1073.00
	24x24 HD 20	Each	1311.00
	24x18 HD 20	Each	1335.00
	Deviders 0.9 mtr.	Each	2743.00
II	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.	Each	113.00

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

**30 S.S RATES FOR FUSION BONDED EPOXY COATING
FOR THE YEAR 2008-09.**

Sl. No.	Description	Unit	Rate (Rs.)
1	2	3	4
	Providing fusion bonded epoxy coating not less than 175 microns thickness and upto 300 microns to reinforcement of all diameters as per IS 13620-1993 including testing of coating at plant. The rate is inclusive of cost on account of careful handling, PVC coated binding wire instead of GI binding wire, touch up material supplied by coating agency, repair work, transportation from the source of supply of steel to the plant and transportation of coated steel from the plant to site of work, loading, unloading and straightening of bent rods etc., complete as per specification and as directed by the Engineer-in-charge.	per MT	9860.00

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

31. OTHER ITEMS

Sl. No.	Description	Unit	S.S. Rates for 2008-09.
1	2	3	4
1	SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	218.40
2	SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.	Per Kg	85.30
3	SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.		
	a) 3 mm thick	Per Kg	69.80
	b) 6 mm thick	Per Kg	69.80
4	SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")	Per Kg	88.40

CONVEYANCE RATES OF MATERIALS

**RATES FOR CONVEYANCE OF EARTH,SAND&GRAVEL INCLUDING LOADING,
UNLOADING & STACKING ON METALLED ROAD**

S. No.	LEAD	PER	SS rate for 2008-09
1	2	3	4
1	UP TO 250 METRES	cum	50.00
2	250 To 500 METRES	cum	75.00
3	1 Km.	cum	100.00
4	2 Km.	cum	106.00
5	3 Km.	cum	112.00
6	4 Km.	cum	118.00
7	5 Km.	cum	124.00
8	6 Km.	cum	130.00
9	7 Km.	cum	136.00
10	8 Km.	cum	142.00
11	9 Km.	cum	148.00
12	10 Km.	cum	154.00
13	11 Km.	cum	160.00
14	12 Km.	cum	166.00
15	13 Km.	cum	172.00
16	14 Km.	cum	178.00
17	15 Km.	cum	184.00
18	16 Km.	cum	190.00
19	17 Km.	cum	196.00
20	18 Km.	cum	202.00
21	19 Km.	cum	208.00
22	20 Km.	cum	214.00
23	Beyond 20 and up to 30 Km (Rate/Km)	cum	5.00
24	Beyond 30 and up to 50 Km (Rate/Km)	cum	4.80
25	Beyond 50 and up to 80 Km (Rate/Km)	cum	4.60
26	Beyond 80 and up to 100 Km (Rate/Km)	cum	4.40
27	Beyond 100 Km (Rate / Km)	cum	4.20
28	L O A D I N G	cum	10.00
29	U N L O A D I N G	cum	8.50
30	S T A C K I N G	cum	5.50

**RATES FOR CONVEYANCE OF METAL, STONE, RUBBLE & CUDDAPAH SLABS
INCLUDING LOADING, UNLOADING & STACKING ON METALLED ROAD**

S. No.	LEAD	UNIT	SS Rate for 2008-09
1	2	3	4
1	UP TO 500 mts.	cum	110.00
2	1 Km.	cum	120.00
3	2 Km.	cum	126.00
4	3 Km.	cum	132.00
5	4 Km.	cum	138.00
6	5 Km.	cum	144.00
7	6 Km.	cum	150.00
8	7 Km.	cum	156.00
9	8 Km.	cum	162.00
10	9 Km.	cum	168.00
11	10 Km.	cum	174.00
12	11 Km.	cum	180.00
13	12 Km.	cum	186.00
14	13 Km.	cum	192.00
15	14 Km.	cum	198.00
16	15 Km.	cum	204.00
17	16 Km.	cum	210.00
18	17 Km.	cum	216.00
19	18 Km.	cum	222.00
20	19 Km.	cum	228.00
21	20 Km.	cum	234.00
22	Beyond 20 and up to 30 Km (Rate/Km)	cum	5.75
23	Beyond 30 and up to 50 Km (Rate/Km)	cum	5.50
24	Beyond 50 and up to 80 Km (Rate/Km)	cum	5.00
25	Beyond 80 and up to 100 Km (Rate/Km)	cum	4.75
26	Beyond 100 Km (Rate / Km)	cum	4.50
27	L O A D I N G	cum	12.80
28	U N L O A D I N G	cum	8.70
29	S T A C K I N G	cum	8.70

**RATES FOR CONVEYANCE OF LIME STONE, BROKEN LATERITE AND BRICK JELLY
INCLUDING LOADING, UNLOADING & STACKING ON METALLED ROAD**

S. No.	LEAD	UNIT	SS Rate for 2008-09
1	2	3	4
1	0 To 250 mts.	cum	100.00
2	251 To 500 mts.	cum	110.00
3	1 Km.	cum	115.00
4	2 Km.	cum	120.00
5	3 Km.	cum	125.00
6	4 Km.	cum	130.00
7	5 Km.	cum	135.00
8	6 Km.	cum	140.00
9	7 Km.	cum	145.00
10	8 Km.	cum	150.00
11	9 Km.	cum	155.00
12	10 Km.	cum	160.00
13	11 Km.	cum	165.00
14	12 Km.	cum	170.00
15	13 Km.	cum	175.00
16	14 Km.	cum	180.00
17	15 Km.	cum	185.00
18	16 Km.	cum	190.00
19	17 Km.	cum	195.00
20	18 Km.	cum	200.00
21	19 Km.	cum	205.00
22	20 Km.	cum	210.00
23	Beyond 20 and up to 30 Km (Rate/Km)	cum	5.00
24	Beyond 30 and up to 50 Km (Rate/Km)	cum	4.80
25	Beyond 50 and up to 80 Km (Rate/Km)	cum	4.60
26	Beyond 80 and up to 100 Km (Rate/Km)	cum	4.40
27	Beyond 100 Km (Rate / Km)	cum	4.20
28	L O A D I N G	cum	10.00
29	U N L O A D I N G	cum	8.50
30	S T A C K I N G	cum	5.50

**RATES FOR CONVEYANCE OF SURKI AND FLYASH INCLUDING LOADING,
UNLOADING & STACKING ON METALLED ROAD**

S. No.	LEAD	UNIT	SS Rate for 2008-09
1	2	3	4
1	0 To 250 mts.	Tonne	90.00
2	250 To 500 mts.	Tonne	95.00
3	1 Km.	Tonne	100.00
4	2 Km.	Tonne	105.00
5	3 Km.	Tonne	110.00
6	4 Km.	Tonne	115.00
7	5 Km.	Tonne	120.00
8	6 Km.	Tonne	125.00
9	7 Km.	Tonne	130.00
10	8 Km.	Tonne	135.00
11	9 Km.	Tonne	140.00
12	10 Km.	Tonne	145.00
13	11 Km.	Tonne	150.00
14	12 Km.	Tonne	155.00
15	13 Km.	Tonne	160.00
16	14 Km.	Tonne	165.00
17	15 Km.	Tonne	170.00
18	16 Km.	Tonne	175.00
19	17 Km.	Tonne	180.00
20	18 Km.	Tonne	185.00
21	19 Km.	Tonne	190.00
22	20 Km.	Tonne	195.00
23	Beyond 20 and up to 30 Km (Rate/Km)	Tonne	4.50
24	Beyond 30 and up to 50 Km (Rate/Km)	Tonne	4.25
25	Beyond 50 and up to 80 Km (Rate/Km)	Tonne	4.00
26	Beyond 80 and up to 100 Km (Rate/Km)	Tonne	3.75
27	Beyond 100 Km (Rate / Km)	Tonne	3.50
28	L O A D I N G	Tonne	17.00
29	U N L O A D I N G	Tonne	11.00
30	S T A C K I N G	Tonne	7.00

**RATES FOR CONVEYANCE OF STEEL AND LUBRICATING OIL INCLUDING
LOADING, UNLOADING & STACKING ON METALLED ROAD**

S. No.	LEAD	UNIT	SS Rate for 2008-09
1	2	3	4
1	0 To 500 mts.	Tonne	125.00
2	1 Km.	Tonne	130.00
3	2 Km.	Tonne	136.00
4	3 Km.	Tonne	142.00
5	4 Km.	Tonne	148.00
6	5 Km.	Tonne	154.00
7	6 Km.	Tonne	160.00
8	7 Km.	Tonne	166.00
9	8 Km.	Tonne	172.00
10	9 Km.	Tonne	178.00
11	10 Km.	Tonne	184.00
12	11 Km.	Tonne	190.00
13	12 Km.	Tonne	196.00
14	13 Km.	Tonne	202.00
15	14 Km.	Tonne	208.00
16	15 Km.	Tonne	214.00
	16 Km.	Tonne	220.00
18	17 Km.	Tonne	226.00
19	18 Km.	Tonne	232.00
20	19 Km.	Tonne	238.00
21	20 Km.	Tonne	244.00
22	Beyond 20 and up to 30 Km (Rate/Km)	Tonne	5.75
23	Beyond 30 and up to 50 Km (Rate/Km)	Tonne	5.50
24	Beyond 50 and up to 80 Km (Rate/Km)	Tonne	5.00
25	Beyond 80 and up to 100 Km (Rate/Km)	Tonne	4.75
26	Beyond 100 Km (Rate / Km)	Tonne	4.50
27	LOADING	Tonne	22.50
28	UNLOADING	Tonne	17.50
29	STACKING	Tonne	10.00

RATES FOR CONVEYANCE OF CI PIPES, SPECIALS & VALVES PER METRIC TONNE EXCLUDING LOADING UNLOADING & STACKING

Diameter in MM	80	100	125	150	200	250	300	350	400	450	500	600	700	750	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
For every KM lead or part there of (Rs.)	3.74	3.88	4.02	4.02	4.30	4.44	4.57	4.72	4.85	5.12	5.40	5.40	6.52	8.87	
Note :	The above rates will be applicable for conveyance from Railway Station to stores or from stores to work site. In respect of DI pipes proportionate rates based on Weight may be worked out														
	Adopt relevant loading, unloading and stacking as per item 4 to 7 of the P.H.S.S.R. item														

HIRE CHARGES

HIRE/USAGE CHARGES FOR PLANT AND MACHINERY

Sl. No.	Description		Unit	Hire Charges for 2008-09
	Machine	Activity		(Rupees)
1	2	3	4	5
1	Dozer(D 80)	Spreading	Per Hour	2760
		Cutting		
		Cleaning		
2	Mortor Grader	Clearing	Per Hour	2600
		Spreading		
		GSB		
		WMM		
3	Hydraulic Excavator	Soil Ordinary	Per Hour	2250
		Soil Marshy		
		Soil unsuitable		
4	Front end loader	Soil loading	Per Hour	1320
		Aggregate loading	Per Hour	
5	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	575
			Per tonne Km	4.5
			Per Km	45
6	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	1550
		WMM		
7	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	540
8	Water tanker 6 Kilolitre	Water transport	Per Hour	345
9	Tractor	Pulling	Per Hour	345
10	Tractor with rotavator	Scarifying	Per Hour	345
11	Tractor with ripper attachment	Scarifying	Per Hour	345
12	Air Compressor	General purpose	Per Hour	370
13	Wet mix plant 60 TPH	Wet mix	Per Hour	1320
14	Mechanical broom Hydraulic	Surface cleaning	Per Hour	290
15	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	940
16	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	690
17	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC	Per Hour	23000
		/Premix		
18	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC	Per Hour	19550
		/Premix		
19	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC	Per Hour	17250
		/Premix		
20	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC	Per Hour	15525
		/Premix		
21	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC	Per Hour	2530
		/Premix		

22	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	1090
23	Hydraulic Chip Spreader	Surface dressing	Per Hour	2070
24	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1320
25	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1035
26	Pot-Hole repair machine	Repair of pot-holes	Per Hour	750
27	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	170
28	GSB Plant 50 Cum	Producing GSB	Per Hour	920
29	Mastic Cooker	Mastic wearing coat	Per Hour	52
30	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	2130
	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1670
31	Transit mixer	Transportation of concrete mix	Per Hour	1150
32	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	630
33	Cranes			
	(a) 80 tonnes	Lifting purpose	Per Hour	950
	(b) 35 tonnes			630
	(c) 3 tonnes			280
	(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	1725
	(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	2875
34	Concrete bucket	For pouring concrete	Per Hour	12
35	Kerb casting machine	Kerb making	Per Hour	250
36	Concrete mixer	Concrete mixing	Per Hour	345
	(a)0.28 cum			
	(b) 1.0 cum	Concrete mixing	Per Hour	520
37	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	4485
38	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	2360
39	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	7070
		Crushing of spalls 200 TPH	Per Hour	14880
40	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	110
41	Generator			
	250 KVA	Generation of electric energy	per hour	1550
	125 KVA		per hour	1090
	100 KVA		per hour	920
	35 KVA		per hour	620
42	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	3740
43	Truck 5.5 cum per 10 tonnes	Material transport	Per Km.	45
		Material transport	Per tonne km	4.5

HIRE CHARGES

44	Road marking machine	Road marking	Per Hour	90
45	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	920
46	Plate compacter	For compacting in medians	Per Hour	40
47	Drilling equipment	For drilling	Per Hour	1035

Note: The above hire charges of machinery & plant includes crew, oils, conveyance of machinery to site and all other incidental charges.

ANNEXURE

Seigniorage and Cess charges:

- i) The seigniorage charges as existing actually may be added in the data rates in the estimates.
- ii) The revised seigniorage charges as fixed by the Government in G.O. Ms. No. 217 Industries and Commerce (M-1) Department dated 29-9-2004, shall be as follows:

Sl.No	Name of the Minor Mineral	Unit	Rates of Seigniorage fee(In Rupees)
1	2	3	4
1	Building Stone	M ³ /MT	Rs 45/ 30 (Rupees Forty five/Thirty)
2	Rough Stone/Boulders	M ³ /MT	Rs 45/ 30(Rupees Forty five/Thirty)
3	Road Metal & Ballast	M ³ /MT	Rs 45/ 30(Rupees Forty five/Thirty)
3(a)	Dimensional Stone used for Kerbs & Cubes	MT	Rs 80(Rupees Eighty)
4	Limekankar/Limestone	MT	The rate of Royalty as applicable to limestone(other than L.D.Grade) in respect of Major Minerals as per the 2 nd schedule of the Mines and Minerals (D&R)Act 1957.
5	Limeshell	MT	Rs 80(Rupees Eighty)
6	Marble	M ³ /MT	Rs.150/60(Rupees one hundred and fifty/sixty)
7	Marble Chips	MT	Rs.40(Rupees Forty)
8	Moram /Gravel & Ordinary earth	M ³ /MT	Rs.20/12(Rupees Twenty/Twelve)
9	Ordinary Sand/Sand Manufactured from Boulders useful for Civil Construction	M ³	Rs.36(Rupees Thirty Six)
10	Shingle	M ³	Rs.15(Rupees Fifteen)
11	Chalcedony Pebbles	MT	Rs.30(Rupees Thirty)
12	Puller's Earth/Bentonite	MT	Rs.100(Rupees Hundred)-White Rs.40(Rupees Forty)-Off White
13	Shale/Slate	MT	Rs.100(Rupees Hundred)
14	Rehmati	M ³	Rs.15(Rupees Fifteen)
15	Limestone Slabs	--	Rs.6(Rupees Six)per Sq.Mt or Rs.80(Rupees Eighty)per Mt Which ever is higher
a(i)	Colour	--	
a(ii)	White	--	Rs.4(Rupees Four)per Sq.Mt or Rs.50(Rupees Fifty)per Mt Which ever is higher
(b)	Black	--	Rs.3(Rupees Three)per Sq.Mt or Rs.40(Rupees Forty)per Mt Which ever is higher
16	Ordinary Clay, Silt and Brick Earth used in the Manufacture of Bricks including Mangalore Tiles	--	Rs 3500 (Rupees Three thousand and five hundred)per kiln per annum for Bricks & Tiles

(Rate per Cubic metre)

17	Granite useful for Cutting & Polishing	More than 270 Cm x 150 cm Size	Below 270 cm x 150 cm size	Below 75 Cm Size
A	Black Granite Galaxy Variety	Rs.3000/- (Rupees three thousand)	Rs.2250/- (Rupees Two thousand two hundred and fifty)	Rs.1000/- (Rupees one thousand)
b.	Black Granite other than Galaxy Variety	Rs.2250/- (Rupees Two thousand two hundred and fifty)	Rs.1750/- (Rupees one thousand seven hundred and fifty)	Rs.750/- (Rupees Seven hundred and fifty)
c.	Colour Granite of Srikakulam Blue, Indian Aurora of Nizamabad District, Leptinites of Coastal Districts, Black Pearl of Prakasam & Guntur District	Rs.2250/- (Rupees Two thousand two hundred and fifty)	Rs.1750/- (Rupees one thousand seven hundred and fifty)	Rs.750/- (Rupees Seven hundred and fifty)
d.	Colour Granite of other Varieties	Rs.1750/- (Rupees one thousand seven hundred and fifty)	Rs.1500/- (Rupees One thousand and five hundred)	Rs.750/- (Rupees Seven hundred and fifty)

Note: In respect of Black Galaxy Granite, Incentive of Rs.250(Rupees two hundred and fifty)per Cubic meter is allowed for the Blocks above 75 cms provided they are processed in the Granite industry within State/Country

SCHEDULE – II

Rates of Dead Rent

SI No	Name of the Minor Mineral	Rate of Dead Rent per hectare per Annum
1	2	3
1	Black Granite	Rs.50,000/- (Rupees fifty thousand)
2	Colour Granite	Rs.40,000/- (Rupees forty thousand)
3	Limestone other than classified Major Minerals used for Lime burning for Building construction purpose, Marble, Boulders, Building stone including stone used for road metal, Ballast concrete and other construction purposes shale, slate and Phylits, Mosaic Chips, Fuller's Earth/ Bentonite	Rs. 25,000/- (Rupees twenty five thousand)
4	Gravel, Morrums, Shingle, Lime Stone Slabs used for flooring purposes, Lime Kankar, Chalcedony Pebbles used in the Building purposes, Lime Shell for burning used for building purposes and Rehmatti	Rs. 15,000/- (Rupees fifteen thousand)

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.

Copy of

GOVERNMENT OF ANDHRA PRADESH
IRRIGATION & CAD (PW:COD) DEPARTMENT

ABSTRACT

I & CAD Department – Scrapping of manual rate of earth work from the estimates - Adoption of the machine rate in all cases for earth work excavation where the quantity exceeds 1000 cum – Amendment to Para 1.05 of Annexure.I of G.O.Ms.No.23, I & CAD (PW) Department dated: 05-3-1999 – Orders – Issued.

G.O.Ms.No.134,

Dated: 25-11-2002
Read the following:

- 1) G.O.Ms.No.23, I & CAD (PW:COD) Department dt:05-3-1999.
- 2) From the Engineer-in-Chief (AW) Letter No.ADA/TC1/BOCE-3 item.3/2002, dt:05-9-2002.

ORDER:

In the circumstances reported by the Engineer-in-Chief (Admn. Wing) and recommendations of Board of Chief Engineers, Government after careful examination of the matter hereby issue amendment to Para 1.05 of Annexure.I of the G.O.Ms.No.23, I & CAD (PW:COD) Department dated:05-3-1999 in super session of the earlier orders issued in the matter to adopt machine rates in all the cases for earth work excavation where the quantities exceed 1000 cum with relaxation on the following items of works:

- 1) Earth work excavation for seating to lining for a depth of 0.10m to 0.15m for Canals / Channels.
- 2) Removal of silt and slushy soils from the Canals / Channels where depth of removal is less than 0.30 m.
- 3) Earthwork excavation for restricted foundation for small structures building foundations etc.,
- 4) Silt in slushy soils removal in lined canals, where movement of machinery is restricted.
- 5) Earth work Excavation for model sections, chutes etc., where the movement of machinery is restricted.

2. This order issues with the concurrence of Finance (Works & Projects) Department vide their U.O.No.7335 / F8 (2)/2002-1, dated:18-11-2002.

J.HARINARAYAN
PRINCIPAL SECRETARY TO GOVERNMENT