

**DRAFT**  
**TECHNICAL PARTICULARS FOR LINE PIPE**

**SCHEDULE -1.**

**SPECIAL PLAIN END LINE PIPE GRADE L 210 (PSL -1) UPTO 406.4MM O.D.**

**Unit : MT**

<b>S.No.</b>	<b>Outside Diameter In ( mm )</b>	<b>Wall Thickness In (mm)</b>	<b>Weight in kg./ Mtr / tonne</b>	
1	73.0	2.8	4.85	206.2
2	73.0	3.2	5.51	181.5
3	73.0	3.6	6.16	162.33
4	88.9	2.8	6.76	147.90
5	88.9	3.2	6.76	147.93
6	88.9	3.6	7.57	132.10
7	88.9	4.0	8.37	119.47
8	114.3	3.6	9.83	101.73
9	114.3	4.0	10.88	91.91
10	141.3	3.2	10.9	91.74
11	141.3	3.6	12.22	81.83
12	141.3	4.0	13.94	71.73
13	168.3	3.6	14.62	68.4
14	168.3	4.0	16.21	61.69
15	219.1	4.0	21.21	47.14
16	273.1	4.8	31.76	31.48
17	323.9	4.8	37.17	26.90
18	323.9	5.6	43.96	22.75
19	355.6	4.8	41.52	24.08
20	355.6	5.2	44.93	22.25
21	355.6	6.0	51.72	19.33
22	355.6	6.4	55.11	18.14
23	355.6	7.1	61.02	16.39
24	406.4	4.8	47.54	21.03
25	406.4	5.2	51.45	19.43
26	406.4	5.6	55.35	18.07
27	406.4	6.4	63.13	15.84
28	406.4	7.1	69.91	14.30

**SCHEDULE -2.****REGULAR PLAIN END LINE PIPE GRADE L 210 (PSL -1) UPTO 406.4MM O.D.****Unit : MT**

S.No.	Outside Diameter In ( mm )	Wall Thickness In (mm)	Weight in kg./ Mtr / tonne	
1	73.0	4.0	6.81	146.84
2	73.0	4.4	7.44	134.40
3	73.0	4.8	8.07	123.91
4	73.0	5.2	8.69	115.07
5	88.9	4.4	9.17	109.05
6	88.9	4.8	9.95	100.50
7	88.9	5.5	11.31	88.41
8	114.3	4.4	11.92	83.89
9	114.3	4.8	12.96	77.16
10	114.3	5.2	13.99	71.48
11	114.3	5.6	15.01	66.62
12	114.3	6.0	16.02	62.42
13	114.3	6.4	17.03	58.72
14	114.3	7.1	18.77	53.27
15	141.3	4.8	16.16	61.88
16	141.3	5.2	17.45	57.30
17	141.3	5.6	18.74	53.36
18	141.3	6.0	20.07	49.82
19	141.3	6.6	21.92	45.62
20	168.3	4.4	17.78	56.24
21	168.3	4.8	19.35	51.68
22	168.3	5.2	20.91	47.82
23	168.3	5.6	22.47	44.50
24	168.3	6.0	24.01	41.65
25	168.3	6.4	25.55	39.14
26	168.3	7.1	28.22	35.43
27	168.3	7.9	31.15	32.68
28	219.1	4.8	25.37	39.41
29	219.1	5.6	29.48	33.92
30	219.1	6.0	31.38	31.86
31	219.1	6.4	33.57	29.79
32	219.1	7.0	36.61	27.31

33	219.1	7.9	41.14	24.30
34	219.1	8.2	42.65	23.44
35	219.1	8.7	45.14	22.15
36	219.1	8.7	45.14	22.15
37	219.1	9.5	49.10	20.36
38	273.1	5.6	36.94	27.07
39	273.1	6.4	42.09	23.75
40	273.1	7.1	46.57	21.47
41	273.1	7.8	51.03	19.60
42	273.1	8.2	53.56	18.67
43	273.1	8.7	56.72	17.63
44	273.1	9.3	60.50	16.53
45	273.1	10.0	65.00	15.38
46	323.9	6.4	50.11	19.95
47	323.9	7.1	55.47	18.02
48	323.9	7.9	61.56	16.24
49	323.9	8.4	65.35	15.30
50	323.9	8.7	67.62	14.79
51	323.9	9.5	73.65	13.58
52	355.6	7.9	67.74	14.76
53	355.6	8.7	74.42	13.43
54	355.6	9.5	81.08	12.33
55	355.6	11.1	94.30	10.60
56	355.6	12.7	107.13	9.33
57	406.4	7.9	77.63	12.88
58	406.4	8.7	85.32	11.72
59	406.4	9.5	92.98	10.75
60	406.4	11.1	102.20	9.78
61	406.4	12.7	123.30	8.11

**Schedule 3 Freight Charges for Line Pipe ( Plain Area ).**

**Unit : MT/Km – Slab.**

**Distance Slab.**

1. 0 51 to 250 Kms.
2. 251 to 500 Kms.
3. 501 to 750 Kms.
4. 751 to 1000 Kms.
- 5.1001 Kms and above.

#### **Schedule 4 Freight Charges for Line Pipe ( Hilly Area ).**

**Unit : MT/Km – Slab.**

**Distance Slab.**

1. 0 51 to 250 Kms.
2. 251 to 500 Kms.
3. 501 to 750 Kms.
4. 751 to 1000 Kms.
5. 1001 Kms and above.

#### **NOTE TO DDO,S :-**

Road Freight Charges:-

Dispatch by road may be allowed based on freight charges on per MT per Km \_slab basis subjected to following conditions:-

a) Road freight charges would be paid only if DDO has specifically ordered for dispatch by road in the supply order subject to (C) below:-

b) In case of Dispatch by road the supplier will make delivery of stores at consignee's premises. No loading and unloading charges would be allowed these charges are inclusive in freight charges.

c) Road freight charges shall be paid for distance between railway station nearest to the mill and railway station nearest to the consignee. However if the railway station nearest to consignee is more than 50 Kms away from consignee premises, Road freight charges shall be paid for distance between railway station nearest to the mill and the actual consignee premises. However no freight charges will be paid for supplies within the municipal limit of the mill premises, or upto 50 Kms from the mill premises whichever is higher.

d) Railway station nearest to the mill will be declared in the tender by the tenderer and will be specified in the Rate Contract. Railway station nearest to the consignee will be specified in the supply order by the DDO. DDO will also specify the distance for each consignee in the supply order.

e) Road freight charges will be firm during the currency of R/C.

f) Before asking 'Dispatch by road for less than wagon load, the DDO may also ensure that the total road transportation cost does not exceed the transportation charges payable by rail for FULL WAGON LOAD.

#### **Detailed Specification**

##### **SCHEDULE 1**

**PLAIN – END LINE PIPE GRADE L 210, UPTO 406.4mm (PSL -1) – SPECIAL PLAIN END.**

**Specification :** ISI Marked Steel Pipe ( Line Pipes), outside Bevelled Ends in standard designated (EW) Electric Resistance or Electric Induction Welding process of steel Grade-L210 conforming to IS/ISO:3183-2007.

##### **SCHEDULE 2**

**PLAIN – ENDS LINE PIPE GRADE L 210, UPTO 406.4mm O.D. (PSL -1)-REGULAR PLAIN END.**

**Specification :** ISI Marked Steel Pipe ( Line Pipes), outside Bevelled Ends in standard designated (EW) Electric Resistance or Electric Induction Welding process of steel Grade-L210 conforming to IS/ISO:3183-2007.

### **SCHEDULE 3**

#### **FREIGHT CHARGES FOR LINE PIPE ( PLAIN AREA ).**

**Specification:-** Road Freight Charges:-

Dispatch by road may be allowed based on freight charges on per MT per Km \_slab basis subjected to following conditions:-

- a) Road freight charges would be paid only if DDO has specifically ordered for dispatch by road in the supply order subject to (C) below:-
- b) In case of Dispatch by road the supplier will make delivery of stores at consignee's premises. No loading and unloading charges would be allowed these charges are inclusive in freight charges.
- c) Road freight charges shall be paid for distance between railway station nearest to the mill and railway station nearest to the consignee. However if the railway station nearest to consignee is more than 50 Kms away from consignee premises, Road freight charges shall be paid for distance between railway station nearest to the mill and the actual consignee premises. However no freight charges will be paid for supplies within the municipal limit of the mill premises, or up to 50 Kms from the mill premises whichever is higher.
- d) Railway station nearest to the mill will be declared in the tender by the tenderer and will be specified in the Rate Contract. Railway station nearest to the consignee will be specified in the supply order by the DDO. DDO will also specify the distance for each consignee in the supply order.
- e) Road freight charges will be firm during the currency of R/C.
- f) Before asking 'Dispatch by road for less than wagon load, the DDO may also ensure that the total road transportation cost does not exceed the transportation charges payable by rail for FULL WAGON LOAD.

### **SCHEDULE 4**

#### **FREIGHT CHARGES FOR LINE PIPE ( HILLY AREA ).**

**Specification** Road Freight Charges:-

Dispatch by road may be allowed based on freight charges on per MT per Km \_slab basis subjected to following conditions:-

- a) Road freight charges would be paid only if DDO has specifically ordered for dispatch by road in the supply order subject to (C) below:-
- b) In case of Dispatch by road the supplier will make delivery of stores at consignee's premises. No loading and unloading charges would be allowed these charges are inclusive in freight charges.
- c) Road freight charges shall be paid for distance between railway station nearest to the mill and railway station nearest to the consignee. However if the railway station nearest to consignee is more than 50 Kms away from consignee premises, Road freight charges shall be paid for distance between railway station nearest to the mill and the actual consignee premises. However no freight charges will be paid for supplies within the municipal limit of the mill premises, or up to 50 Kms from the mill premises whichever is higher.
- d) Railway station nearest to the mill will be declared in the tender by the tenderer and will be specified in the Rate Contract. Railway station nearest to the consignee will be specified in the supply order by the DDO. DDO will also specify the distance for each consignee in the supply order.
- e) Road freight charges will be firm during the currency of R/C.
- f) Before asking 'Dispatch by road for less than wagon load, the DDO may also ensure that the total road transportation cost does not exceed the transportation charges payable by rail for FULL WAGON LOAD.

#### **General Technical Requirement for T/Enq.**

1. Steel Pipe for Line pipes shall be in random length of 6 meters as per table – 12.
2. Plain End pipe shall be square cut or Bevelled on both ends as per clause 9.12.5 and coating as per Clause 12.1.2 of IS/ISO : 3183(2007).
3. All Pipes shall be checked for visual examination such as surface conditions, imperfections and defects . dimensional requirements i.e. Length, O.D., wall thickness, beveling, weight and hydrostatic test pressure as per IS/ISO 3183:2007.
4. Physical properties covered in IS/ISO 3183 -2007 like tensile strength, yield strength and elongation, flattening etc shall be checked as per random sampling plan of IS 2500 (Part-I) Inspection level-II.

5. The firm shall purchase Raw material from OEMs like SAIL or firms holding BIS License for manufacturing of line pipe. Firm shall provide invoices of Raw Material along with Test Certificate in respect of physical /chemical properties of steel being issued by steel mill . .

6. The tenderers shall furnish a copy of valid BIS license along with their offer.

DRAFTED BY

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