

G : Machinery Of Motive Power

G I COMPRESSORS

GI (1) Reciprocating Compressors

Capacity cu m/min : Up to 2

1. Manufacturer/Supplier : M/s El.Gi Equipments Ltd.,
India House, Trichy Road,
Coimbatore - 641018.

		(i)	(ii)	(iii)	(iv)	(v)
Model		THPC 200	THPC 300	THPC 500	THPC 1000(T)	THPC 600
Cap	cu m/min	0.180	0.310	0.500	0.587	0.634
Motor	HP	3	5	7.5	10	10
Working PR	kg/sq cm	30	30	30	60	30
No of Stages		2	2	2	3	2
Model		(vi) THPC1250(T)	(vii) THPC 2000(T)	(viii) THPC 1000	(ix) THPC 1500(T)	
Cap	cu m/min	1.018	1.231	1.235	1.301	
Motor	HP	12.5	20	20	15	
Working PR	kg/sq cm	35	65	30	35	
No of Stages		3	3	3	3	

Capacity cu m/min : 2.1 to 10

1. Manufacturer/Supplier : M/s Atlas Copco (India) Ltd.,
Mahatama Gandhi Memorial Building,
Netaji Subhash Road,
Mumbai - 400 002.

		(i)	(ii)	(iii)	(iv)
Model		BT4 ARR II	BT 4 PORT	BT4 ARRI	BT5 ARRI
Cap	cu m/min	3.15	4.0	4.03	6.0
Working PR	kg/sq cm	7	7	7	7
Speed	rpm	1150	1460	1460	1460
BHP		24.5	33.1	33.1	47.6

2. Manufacturer/Supplier : M/s Chicago Pneumatic India Ltd.,
301/302. L. B. Marg, Mulund,
Mumbai - 400 080.

		(i)	(ii)
Model		PB-2-105	PB-4-210
Cap	cu m/min	2.97	5.94
Motor Rating	HP	30	55
	KW	22.4	41
Normal Working PR	kg/sq cm	7	7

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No. of Stages	:	2	2		
Speed	rpm	880	880		
Air pipe Discharge					
BSP mm	:	63.5	63.5		
3. Manufacturer/Supplier	:	M/s Holman Climax Manufacturing Ltd., Dolphin Court, 7A Middleton Street, Calcutta - 700 071.			
		(i)	(ii)		
Model	:	TA 135	TA 13D		
Cap	cu m/min	3.39	3.39		
Engine	:	-	PERKINS P 6(1)		
BHP	:	29	44		
Working PR	kg/sq cm	7	7		
No. of Stages	:	2	2		
Speed	rpm	1300	1300		
Wt	kg	440	1375		
		(iii)	(iv)		
Model	:	TH 36S	TA 36D		
Cap	cu m/min	8.64	9.54		
Engine	:	-	Ashok Leyland Alu 400		
BHP	:	78	107		
Working PR	kg/sq cm	7	7		
No. of Stages	:	2	2		
Speed	rpm	1000	2200		
Wt	kg	1140	3000		
Capacity	cu m/min	Above 10			
1. Manufacturer/Supplier	:	M/s Chicago Pneumatic India Ltd., 301/302, L. B. Marg, Mulund, Mumbai - 400 080			
		(i)	(ii)	(iii)	(iv)
Model	:	2 HN2 32-18	2 HN2-3722	2 HN2 37-22	1 HN2 32
Cap	cu m/min	20.00	21.50	26.90	26.90
Motor Rating	KW	120	125	150	120
	HP	160	170	200	160
Normal Working PR					
	kg/sq cm	7.03	7.03	7.03	4.0
No. of Stages	:	2	2	2	1
Speed	rpm	1000	800	1000	800
		(v)	(vi)	(vii)	(viii)
Model	:	2 HN2 47-28	1 HN2-32	2 HN 247-28	1 HN2 37
Cap	cu m/min	31.30	33.60	34.50	42.60
Motor Rating	KW	180	150	200	180
	HP	240	200	265	240
Normal Working PR					
	kg/sq cm	7.03	4.00	7.03	4.00
No. of Stages	:	2	1	2	1
Speed	rpm	725	1000	800	1000

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2. Manufacturer/Supplier	: M/s Holman Climax Manufacturing Ltd., Dolphin Court, 7A Middleton Street, Calcutta - 700 071.		
	(i)		
Model	:	TM 60S	
Cap	cu m/min	:	14.9
BHP	:	-	
Working PR	kg/sq cm	:	7
No. of Stages	:	2	
Speed	rpm	:	720
Wt	kg	:	2295
3. Manufacturer/Supplier	: M/s SLM Maneklal Industries Ltd., Saki Naka, Kurla Andheri Road, Mumbai - 400 072		
	(i)		(ii)
Model	:	122 HEG 250/160S	123 HEG 315/200 S
Cap	cu m/min	10.95	14.80
Shaft Power	HP	73.3	114
Working PR	bar gm	8	9
No. of Stages	:	2	2
Speed	rpm	1000	1000
	(iv)		(v)
Model	:	122 HE 250S	164 HEG 350/200S
Cap	cu m/min	18.73	18.98
Shaft Power	HP	68.4	161
Working PR	bar gm	-	11
Speed	rpm	1000	750
	(vii)		(viii)
Model	:	164 HEG 400/250S	256 HEG 450/280S
Cap	cu m/min	25.50	30.8
Shaft Power	HP	194	272
Working PR	bar gm	9	12
Speed	rpm	750	480
	(x)		(xi)
Model	:	205 HEG 450/280S	164 HE 350S
Cap	cu m/min	32.22	38.27
Shaft Power	HP	245	176
Working PR	bar gm	9	-
Speed	rpm	600	750
	(xiii)		(xiv)
Model	:	164 HE 400S	250 HEG 625/380S
Cap	cu m/min	52.9	63.4
Shaft Power	hp	194	454
Working PR	bar g	-	8
Speed	rpm	750	480
	(iii)		(vi)
Model	:	163 HEG 315/200S	
Cap	cu m/min	15.59	
Shaft Power	HP	117	
Working PR	bar gm	9	
No. of Stages	:	2	
Speed	rpm	750	
	(vi)		(ix)
Model	:	163 HEG 350/200S	
Cap	cu m/min	19.45	
Shaft Power	HP	139	
Working PR	bar gm	8	
Speed	rpm	750	
	(ix)		(xii)
Model	:	163 HE 315S	
Cap	cu m/min	31.5	
Shaft Power	HP	131	
Working PR	bar gm	-	
Speed	rpm	750	
	(xii)		(xv)
Model	:	163 HE 250S	
Cap	cu m/min	40.29	
Shaft Power	HP	122	
Working PR	bar gm	-	
Speed	rpm	750	
	(xv)		(xv)
Model	:	205 HE 450S	
Cap	cu m/min	65.3	
Shaft Power	hp	272	
Working PR	bar g	-	
Speed	rpm	600	

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GI (2) Sliding Vane Type Rotary Compressors

Capacity cu m/min : Up to 10

1. Manufacturer/Supplier : M/s Chicago Pneumatic India Ltd.,
301/302, L. B. Marg, Mulund,
Mumbai - 400 080

	(i)	(ii)	(iii)
Model	175-RO-1	260-RO-2	CP-300-RO-2
Cap cu m/min	4.96	7.36	8.50
Engine	Perkins P6(1)	Perkins P6(354)	Ashok Leyland ALU 400
Motive Power	Diesel	Diesel	Diesel
Speed rpm	1970	2000	2000
Working PR kg/sq cm	7	7	7
No. of Stages	1	-	-
Wt Dry kg	1530	2400	2610

2. Manufacturer/Supplier : M/s Kirloskar Pneumatic Co. Ltd.,
Hadaspar Industrial Estate,
Pune - 411 013

	(i)	(ii)	(iii)
Model	WR-120E	WR-120	WR-175E
Cap cu m/min	2.77	3.49	4.37
Engine	-	Perkins P6(1)	-
Motive Power	Electricity	Diesel	Electricity
HP	-	60.7	-
Working PR kg/sq cm	7	7	7
No. of Stages	2	2	2
Speed rpm	1470	1800	1470
Wt Dry kg	1088	1360	1155
Motor Rating KW	22	-	37
	(iv)	(v)	(vi)
Model	WR-175	WR-250E	WR-250
Cap cu m/min	5.09	6.12	7.28
Engine	Perkins P6(1)	-	Perkins P6(354)
Motive Power	Diesel	Electricity	Diesel
Working PR kg/sq cm	7	7	7
No. of Stages	2	2	3
Speed rpm	1650	1470	2210
Wt Dry kg	1430	1488	1815
Motor Rating KW	-	50	-
	(vii)	(viii)	(ix)
Model	WR-250	WR-300E	WRH-9
Cap cu m/min	7.28	7.75	8.5
Engine	Koelrb-66	-	Cummins N-855C-250
Motive Power	Diesel	Electricity	-
HP	96	-	190
Working PR kg/sq cm	7	7	7
No. of Stages	2	2	3
Speed rpm	2210	1470	1700
Wt Dry K	1850	1660	5000
Motor Rating KW	-	60	-

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Model		(x)	(xi)	(xii)
Cap	cu m/min	WR-300	WR-300	WR-400E
Engine		8.73	8.73	9.61
Motive Power		Leyland Alu 370	Koel RB-66	-
		Diesel	Diesel	Electricity
	HP	94	96	-
Working PR	kg/sq cm	7	7	7
No. of Stages		2	2	2
Speed	rpm	2200	2200	1470
Wt Dry	kg	1905	1900	2050
Motor Rating	KW	-	-	75

Capacity cu m/min : Above 10

1. Manufacturer/Supplier : M/s Chicago Pneumatic India Ltd.,
301/302, L. B. Marg, Mulund,
Mumbai - 400 080

Model		(i)	(ii)	(iii)
Cap	cu m/min	CP-365-RO-2	CP-500-RO-2	CP-600-RO-2
Engine		10.33	14.16	16.99
		N-495-C(NHC 4B1)	Kirloskar Cummins NT-495-C	Kirloskar Cummins N-743-C(NH-220)
Motive Power		Diesel	Diesel	Diese
Working PR	kg/sq cm	7	7	7
No. of Stages		2	-	-
Speed	rpm	1825	1825	1750
Wt Dry	kg	3220	4550	4836

2. Manufacturer/Supplier : M/s Kirloskar Pneumatic Co. Ltd.,
Hadaspar Industrial Estate,
Pune - 411 013.

Model		(i)	(ii)	(iii)
Cap	cu m/min	WR-365	WR-365	WR-500E
Engine		10.342	10.342	11.48
		NG 4 95-C	Cummins NT-495-C	-
	HP	120	127	-
Working PR	kg/sq cm	7	7	7
No. of Stages		2	2	2
Speed	rpm	1800	1550	1470
Wt Dry	kg	2820	2920	2710
Motor Rating	KW	-	-	90
Model		(iv)	(v)	(vi)
Cap	cu m/min	WR-400	WR-500	WR-600E
Engine		11.63	14.42	14.87
		Cummins NT-495	Cummins NT-495	-
	HP	192	145	-
Working PR	kg/sq cm	7	7	7
No. of Stages		2	2	2
Speed	rpm	1725	1850	1470
Wt Dry	kg	920	3150	2835
Motor Rating	KW	-	-	100

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		(vii)	(viii)	(ix)
Model		WRH-14	WR-600	WR-630 E
Cap	cu m/min	15.6	17.5	18.5
Engine		Cummins NTA-855-C380	Cummins NT4-495-C	-
	HP	295	183	-
Working PR	kg/sq cm	17.5	7	7
No. of Stages		2	2	2
Speed	rpm	1800	1800	1470
Wt Dry	kg	5700	3823	3200
Motor Rating	KW	-	-	150

GI (3) Screw Compressors

(a) Portable

Capacity cu m/min Up to 10

1. Manufacturer/Supplier : M/s Atlas Copco (India) Ltd.,
Mahatama Gandhi Memorial Building,
Netaji Subhash Road,
Mumbai - 400 002.

		(i)	(ii)	(iii)
Model		VT 4	VT 250	VT6 ALD
Cap	cu m/min	4.84	7.08	9.5
Engine		P6(1) Simpsons	P6(1)354 Simpsons	Leyland Ashok ALU 400
Working PR	kg/sq cm	7	7	7
BHP		64.90	85.2	98
Wt	kg	1265	1600	2100

2. Manufacturer/Supplier : M/s Chicago Pneumatic India Ltd.,
301/302, L. B. Marg, Mulund,
Mumbai - 400 080.

		(i)	(ii)	(iii)
Model		CPS 180	CPS 260	CPS 300
Cap	cu m/min	5.1	7.4	8.5
Engine		Simpsons P6(I)	Ashok Leyland ALU-370	Ashok Leyland ALU-370
Working PR	kg/sq cm	7.03	7.03	7.03
Wt	kg	1575	2000	2000

3. Manufacturer/Supplier : M/s ELGI Equipments Ltd.,
India House, Trichy Road,
Coimbatore - 641018.

		(i)	(ii)	(iii)	(iv)
Model		175 DP	H 175 DP	300 DP	H 300 DP
Cap	cu m/min	4.95	4.95	8.49	8.49
Working PR	kg/sq cm	7	10.5	7	10.5
BHP		65.5	65.5	97.5	125
rpm		2000	2000	2000	2000

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Capacity	cu m/min	:	Above 10		
1. Manufacturer/Supplier		:	M/s Atlas Copco (India) Ltd., Mahatama Gandhi Memorial Building, Netaji Subhash Road, Mumbai - 400 002.		
Model		:	(i) XA-85	(ii) XA-140	(iii) XA-175
Normal Working Pressure	bar(ε)	:	7	7	7
Free Air Delivery	i/s	:	85	140	175
Engine Type		:	KOEL-HA-495	ALU-665/402	ALU 411
Fuel Tank Capacity	Lit	:	85	150	150
Model		:	(v) XA-280	(vi) XAH-210	(vii) XAH-360 RIG
Normal Working Pressure	bar (e)	:	280	210	360
Free Air Delivery	i/s	:	Cummins Diesel NT-495C	Cummins Diesel NT-495C	Cummins Diesel NT-743C
Fuel Tank Capacity	Lit	:	205	205	-
2. Manufacturer/Supplier		:	M/s Chicago Pneumatic India Ltd., 301/302, L. B. Marg, Mulund, Mumbai - 400 080.		
Model		:	(i) CPS 400 2 W	(ii) CPS 400	(iii) CPS 650
Cap	cu m/min	:	11.3	11.3	18.4
Engine		:	Ashok Leyland 402	KCL N-495-C	KCL N-743-C
Working PR	kg/sq cm	:	7.03	7.03	7.03
Wt	kg	:	2250	2865	3459
3. Manufacturer/Supplier		:	M/s ELGI Equipments Ltd., India House, Trichy Road, Coimbatore - 641018.		
Model		:	(i) 400 DP	(ii) H 450 DP	(iii) 500 DP
Cap	cu m/min	:	11.32	12.73	14.15
Working PR	kg/sq cm	:	7	10.5	7
BHP		:	125	168	168
rpm		:	2000	1900	1900
Model		:	(iv) 500/250 DP	(v) H 550 DP	(vi) 600 DP
Cap	cu m/min	:	14.15	15.56	16.98
Working PR	kg/sq cm	:	17.5	10.5	7
BHP		:	264	205	208
rpm		:	2100	1950	1950
Model		:	(vii) H 600 DP	(viii) 750 DP	(ix) H 750 DP
Cap	cu m/min	:	16.98	21.23	21.23
Working PR	kg/sq cm	:	10.5	7	10.5
BHP		:	232	232	287
rpm		:	1950	1950	1950

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Model		(x)	(xi)	(xii)
Cap	cu m/min	750/250 DP	900/250 DP	1000 DP
Working PR	kg/sq cm	21.23	25.47	28.30
Bhp		17.5	17.5	7
Rpm		351	380	311
		2100	2100	1900
4. Manufacturer/Supplier		M/s Ingersoll Rand (India) Ltd., Peenya Industrial Area, Bangalore - 560 058.		
Model		(i)	(ii)	(iii)
Cap	cu m/min	P 450	HP 450	P 600
Engine		Kirloskar Cummins	Kirloskar Cummins	Kirloskar Cummins
		6 BTA 5.9	6 BTA 5.9	6 BTA 5.9
Working PR	HP	145	174	174
Rpm	kg/sq cm	7.0	10.5	7.0
Wt		2200	2200	2200
		2500	2500	2500
Stationery Capacity				
	cu m/min	Up to 10		
1. Manufacturer/Supplier		M/s Atlas Copco (India) Ltd., Mahatama Gandhi Memorial Building, Netaji Subhash Road, Mumbai - 400 002.		
Model		(i)	(ii)	(iii)
Cap	cu m/min	GA 115-7.5	GA 118-7.5	GA 122-7.5
Working PR	kg/sq cm	2.13	2.52	2.9
Motor Rating	KW	7	7	7
	HP	15	18	22
	HP	20	25	30
Wt	kg	555	565	580
Model		(iv)	(v)	
Cap	cu m/min	GA 230-7.5	GA 237-7.5	
Working PR	kg/sq cm	4.86	5.78	
Motor Rating	KW	7	7	
	HP	30	37	
	HP	-	-	
Wt	kg	950	1000	
2. Manufacturer/Supplier		M/s ELGI Equipments Ltd., India House, Trichy Road, Coimbatore - 641018.		
Model		(i)	(ii)	(iii)
Cap	cu m/min	SR 1025 L	SR 1040 LH	SR 1030 L
Working PR	kg/sq cm	2.83	2.83	3.535
Motor Rating	HP	7	10.5	7
	HP	25	40	30
Model		(iv)	(v)	(vi)
Cap	cu m/min	SR 1040 L	SR 1250 LH	SR 1260 LH
Working PR	kg/sq cm	4.39	4.39	4.95
Motor Rating	HP	7	10.5	10.5
	HP	40	50	60

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		(vii)	(viii)	(ix)
Model	:	SR 1250 L	SR 1260 L	SR 1275 LH
Cap	cu m/min :	5.66	6.79	7.08
Working PR	kg/sq cm :	7	7	10.5
Motor Rating	HP :	50	60	75

		(x)	(xi)
Model	:	SR 1275 L	SR 16100 LH
Cap	cu m/min :	8.92	8.92
Working PR	kg/sq cm :	7	10.5
Motor Rating	HP :	75	100

3. Manufacturer/Supplier : M/s Kirloskar Pneumatic Co. Ltd.,
Hadaspar Industrial Estate,
Pune - 411 013.

		(i)	(ii)	(iii)
Model	:	SC 0705-C	SC 707-C	SC 709-C
Cap	cu m/min :	5	7	8.5
Engine	:	KOEL H 494	KOEL H 494	KOEL HA-694
Working PR	kg/sq cm :	7.0	7.0	7.0

Capacity cu m/min : Above 10

1. Manufacturer/Supplier : M/s Atlas Copco (India) Ltd.,
Mahatama Gandhi Memorial Building,
Netaji Subhash Road,
Mumbai - 400 002.

		(i)	(ii)
Model	:	GA 1107 W	GA 1407 W
Cap	cu m/min :	17.0	23.7
Motor Rating	KW :	110	160
Working PR	kg/sq cm :	7	7
WT	kg :	2200	2600
HP	:	150	218

2. Manufacturer/Supplier : M/s ELGI Equipments Ltd.,
India House, Trichy Road,
Coimbatore - 641018.

		(i)	(ii)	(iii)	(iv)
Model	:	SR 16100 L	SR 20125 LH	SR 20150 LH	SR 20125 L
Cap	cu m/min :	11.32	11.32	13.75	14.86
Motor Rating	HP :	100	125	150	125
Working PR	kg/sq cm :	7	10.5	10.5	7
		(v)	(vi)	(vii)	(viii)
Model	:	SR 20150 L	SR 20180 LH	SR 20180 L	SR 20215 LH
Cap	cu m/min :	17.70	17.70	21.23	21.23
Motor Rating	HP :	150	180	180	215
Working PR	kg/sq cm :	7	10.5	7	10.5

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		(ix)	(x)	(xi)	(xii)
Model	:	SR 25200 L	SR 25250 L	SR 25300 L	SR 32350 L
Cap	cu m/min	: 25.47	31.13	36.79	42.45
Motor Rating	HP	: 150	180	300	350
Working PR	kg/sq cm	: 7	7	7	7
3. Manufacturer/Supplier : M/s Kirloskar Pneumatic Co. Ltd., Hadaspar Industrial Estate, Pune - 411 013.					
		(i)	(ii)	(iii)	
Model	:	SD 0711-C	SE-0718-C	SD-1012-C	
Cap	cu m/min	: 11.4	17	13.45	
Engine	:	KOEL-HA694-TC	KCL-NT-495-C	KCL-NT-495-C	
Working PR	kg/sq cm	: 7	7	10.5	
		(iv)	(v)	(vi)	
Model	:	SE-1015-C	SE-1018-C	SE-1021-C	
Cap	cu m/min	: 15.4	18.4	21.2	
Engine	:	KCL-NTA-495-C	KCL-N-743-TC	KCL-NT-743-C	
Working PR	kg/sq cm	: 10.5	10.5	10.5	

G I (A) Accessories of Compressors

1. Manufacturer/Supplier : M/s I.A.E.C. India Ltd.,
196, L. B. Shastri Marg, Bhandup,
Mumbai - 400 078.

Air Filters

		(i)	(ii)	(iii)
		Compressed Air Filter	Compressed Air Filter with Transparent Shell	Compressed Air / Gas Filter
Cap	cu m/hr	: 2 to 2400	Up to 5	10 to 1550
PR	kg/sq cm	: -	10 & 16	10
		(iv)	(v)	
		Mini Air Drier	Compressed Air Filters with Automatic Condensate Discharge Device	
Cap	cu m/hr	: 1 TO 2	-	
PR	kg/sq cm	: Up to 16	-	

2. Manufacturer/Supplier : M/s IMECO Private Limited,
26, R. N. Mukherjee Road,
Calcutta - 700 001.

Spares for Compressors of all leading Manufacturers.

3. Manufacturer/Supplier : M/s Integral Pneumatic Co. Pvt. Limited,
Municipal Corporation Building,
Shakti Nagar Chowk,
Delhi - 110 007.

Airline Lubricators

		(i)	(ii)	(iii)	(iv)
Model	:	IP 321	IP 322	IP 323	IP 324
Cap	Lit	: 1/2	1	1.2	1.3
Size of Air Inlet & Outlet Connection mm	:	12.5	20.0	25.0	25.0

G : Machinery of Motive Power

Integral Automatic Drain Valve

Model : IP -777
 Inlet Nipple Bsp mm : 12
 Weight kg : 10.5

Moisture Separator Cum Air Pipe Line Filter

Model : IPC 0/1, IPC 2/4, IPC 5, IPC 6, IPC 7
 Cap cu m/hr : 14 to 14578
 At Gauge Pressures
 kg/sq cm : 0.35 to 35.2
 Wt kg : 14.9 to 221.3
 Pipe Size mm : 12 to 100

Non Return Valves

	(i)	(ii)	(iii)
Model	: IPC N 55	: IMP N 65	: IPC N 75
Pipe Size	mm : 500	640	750
	(iv)	(v)	(vi)
Model	: IPC N 105	: IPC N 125	: IPC N 150
Pipe Size	mm : 1020	1270	1570

Water Cooled Aftercoolers for Air Compressors

	(i)	(ii)	(iii)	(iv)
Model	: IPC AC 201	: AC 202	: IPC AC 203	: IPC AC 204
Cap	cu m/min : 1.42	3.1	5.66	8.5
Length of Tubes	mm : 647	647	914	1317
No of Tubes	: 19	31	55	55
Cooling Surface of	sq m : 0.65	1.37	2.49	3.59
Wt	kg : 175	180	250	300

4. Manufacturer/Supplier : M/s Steelgate Piston Ring Industries,
 14, Kutchery Road, P. O. Box 94, Baluganj,
 Agra - 282 001.

Accessories of Compressors : Two Piece Compressor Ring, Three Piece Compressor Ring,
 Segmental Ring, Grooved Oil Cutter Ring, Conformable Oil Ring,
 Grooved and Drilled Ring, Seal Piston Ring, Step Seal Ring,
 Thin Wall Bearings, Bushes, Gudgeon Pin and Connecting Rods, Inlet - Exhaust Valves,
 Packings, Alloy Pistons, Cylinder - Liners.

G II ELECTRICAL MACHINERY

G II (1) AC Motors

4. Manufacturer/Supplier : M/s Batliboi & Co. Ltd.,
 Appejay House, 6th Floor,
 Dr. V. B. Gandhi Marg, Fort,
 Mumbai - 400 023.

	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Model	: 112 S	112 M	132 S	132 M	160 M	160 L

G : Machinery of Motive Power

Hp	:	1	2	3	5	7.5	10
V	:	420	420	420	420	420	420
KW	:	0.75	1.5	2.2	3.7	5.5	7.5
Cycles	:	50	50	50	50	50	50
PH	:	3	3	3	3	3	3
Full Load	rpm	1420	1420	1440	1440	1440	1440
Full Load Current	A	1.7	3.2	4.5	7.2	10.6	14.0
Apprx Wt	kg	26	33	44	26	78	93
		(vii)	(viii)				
Model	:	180 M	180 L				
Hp	:	15	20				
V	:	420	420				
KW	:	11.0	-				
Cycles	:	50	50				
PH	:	-	3				
Full Load	rpm	1440	1440				
Full Load Current	A	20.5	27.0				
Apprx Wt	kg	126	143				

2. Manufacturer/Supplier : M/s Power Build Ltd.,
Anand Sojitra Road,
Vallabh Vidyanagar - 388 120, Gujarat.

		(i)	(ii)	(iii)
Model	:	PIV Geared Motor	Heliworm Geared Motor	Helical Geared Motor
Rated	HP	0.25 to 15	0.16 to 30	0.16 TO 125
Speed Variation In Ratio	:	1.6 & 1.8	Reduction Ratio Up to 300 : 1	Output Speeds 0.1 to 525 rpm
Constant Torque	:	Up to 260 KGM	-	-

2. Manufacturer/Supplier : M/s Rajendra Electrical Industries Ltd.,
Plot No. 14, Shah Industrial Estate,
Veera Desai Road, Andheri (West)
Mumbai - 400 058.

(a) Flame Proof Motors

		(i)	(ii)	(iii)	(iv)	(v)	(vi)
Model	:	KR63S/4D	KR71S/6D	KR63S/2D	KR63M/4D	KR71M/6D	KR71S/4D
Rated	KW	0.12	0.12	0.18	0.18	0.18	0.25
	HP	0.16	0.16	0.25	0.25	0.25	0.33
Current	A	0.45	0.63	0.58	0.65	0.80	0.72
Speed	rpm	1320	875	2700	1325	880	1365
		(vii)	(viii)	(ix)	(x)	(xi)	(xii)
Model	:	KR90S/8D	KR71S/2D	KR71M/4D	KR9S6/D	KR90M/8D	KR71M/2D
Rated	KW	0.25	0.37	0.37	0.37	0.37	0.55
	HP	0.33	0.50	0.50	0.50	0.50	0.75
Current	A	1.06	0.95	1.05	1.15	1.45	1.4
Speed	rpm	690	2850	1375	930	675	2880
		(xiii)	(xiv)	(xv)	(xvi)	(xvii)	(xviii)
Model	:	KR80S/4D	KR90M/6D	KR100S/8D	KR80S/2 D	KR90M/4D	KR100S/2D
Rated	KW	0.55	0.55	0.55	0.75	0.75	0.75

G : Machinery of Motive Power

Current Speed	HP	: 0.75	0.75	0.75	1.0	1.0	1.0
	A	: 1.48	1.62	1.82	1.84	1.9	2.1
	rpm	: 1390	925	690	2840	1410	945
Model Rated		: (xix) KR100M/8D	(xx) KR 90 M/2D	(xxi) KR 90 M/4D	(xxii) KR100M/6D	(xxiii) KR112S/8D	(xxiv) KR90M/2D
	KW	: 0.75	1.1	1.1	1.1	1.1	1.5
	HP	: 1.0	1.5	1.5	1.5	1.5	2.0
Current Speed	A	: 2.52	2.3	2.5	3.05	2.95	3.05
	rpm	: 690	2860	1410	940	710	2850
		: (xxv) KR100S/4D	(xxvi) KR112S/6D	(xxvii) KR112M/8D	(xxviii) KR100S/2D	(xxix) KR100M/4D	(xxx) KR112M/6D
Model Rated	KW	: 1.5	1.5	1.5	2.2	2.2	2.2
	HP	: 2.0	2.0	2.0	3.0	3.0	3.0
	A	: 3.4	3.44	3.90	4.5	4.8	5.0
Current Speed	rpm	: 1420	960	700	2860	1415	940
		: (xxxi) KR132S/8D	(xxxii) KR112M/2D	(xxxiii) KR112M/4D	(xxxiv) KR132S/6D	(xxxv) KR132M/8D	(xxxvi) KR132S/2D
	KW	: 2.2	3.7	3.7	3.7	3.7	5.5
Current Speed	HP	: 3.0	5.0	5.0	5.0	5.0	7.5
	A	: 5.45	7.0	7.7	8.2	9.0	10.5
	rpm	: 700	2880	1430	930	675	2870
Model Rated		: (xxxvii) KR132S/4D	(xxxviii) KR132M/6D	(xxxix) KR160M/8D	(xxxx) KR132M/2D	(xxxxi) KR132M/4D	(xxxvii) KR160M/6D
	KW	: 5.5	5.5	5.5	7.5	7.5	7.5
	HP	: 7.5	7.5	7.5	10.0	10.0	10
Current Speed	A	: 10.8	12.0	12.5	14.0	14.5	15.0
	rpm	: 1435	910	715	2880	1435	950
		: (xxxxiii) KR160M1/2D	(xxxxiv) KR 160 M-1/4D	(xxxxv) KR 160 M/2D	(xxxxvi) KR 160 M/4D		
Model Rated	KW	: 9.3	9.3	11.0	11.0		
	HP	: 12.5	12.5	15.0	15.0		
	A	: 17.0	17.5	20.0	21.5		
Current Speed	rpm	: 2900	1445	2910	1445		

Manufacturer/Supplier : M/s Rajendra Electrical Industries Ltd.,
Plot No. 14, Shah Industrial Estate,
Veera Desai Road, Andheri West,
Mumbai - 400 058.

(b) Geared Motors

Motor	HP	: (i) 0.16	(ii) 0.25	(iii) 0.33	(iv) 0.50	(v) 0.75
	KW	: 0.12	0.18	0.25	0.37	0.55
Output	rpm	: 25 to 400	16 to 400	16 to 400	16 to 400	16 to 400
	kgm	: 5.7 to 0.3	11.2 to 0.4	14.8 to 0.6	22.4 to 0.9	33.6 to 1.4
Service Factor		: 1.6 to 3.0	1.5 to 3.0	1.1 to 3.0	1.5 to 3.0	1.0 to 3.0
		: (vi) 1.0	(vii) 1.5	(viii) 2.0	(ix) 3.0	(x) 5.0
Motor	HP	: 0.75	1.1	1.5	2.2	3.7
	KW	: 0.75	1.1	1.5	2.2	3.7
Output	rpm	: 16 to 400	16 to 400	16 to 400	16 to 400	16 to 400
	kgm	: 44.7 to 3.0	67.1 to 2.7	89.5 to 3.6	134.3 to 5.4	223.8 to 8.9
Service Factor		: 1.5 to 3.0	1.0 to 3.0	1.5 to 3.0	1.0 to 3.0	1.1 to 3.8

G : Machinery of Motive Power

Motor	HP	:(xi)	(xii)	(xiii)
	KW	: 7.5	10.0	15.0
Output	rpm	: 20 to 400	32 to 400	50 to 400
Output Torque	kgm	: 268.5 to 13.4	223.7 to 17.9	214.8 to 26.9
Service Factor		: 1.0 to 3.0	1.3 to 3.0	1.1 to 3.0

G II (2) Air Break Starter

Manufacturer/Supplier : M/s Andrew Yule & Co. Ltd.,
14, Mayurbhanj Road,
Calcutta - 700 023.

Model		:(i)	(ii)	(iii)	
		: Flameproof	Flameproof	Flameproof	
Type		: Direct on	Air Break	Fully	
		: Line Contractor	Fully Automatic	Automatic	
Type		: Air Break	Reversing	Air Break	
		: Starter	Starter	Star/Delta Starter	
Rating	HP	: Up to 150	Up to 100	Up to 175	
PH		: 3	3	3	
C/S		: 50	50	50	
Rated	V	: 550/440	550/440	550/440	
Model		:(iv)	(v)	(vi)	(vii)
		: Flameproof	Flameproof	Unitised	LT Direct on
Type		: Direct On	1100 V, 500 V	Portable	Line starter
		: Line	400 A, 15 MVA	Substation	
Type		: Air Break	Air Circuit		
		: Contractor	Breaker		
Rating	HP	: Up to 900	-	-	
PH		: 3	3	-	
C/S		: 50	50	-	
Rated	KV	: 3.3	-	11	
	V	: -	440/550	415/550	

GII (3) Circuit Breaker

(a) Air Circuit Breaker

Manufacturer/Supplier : M/s Andrew Yule & Co. Ltd.,
14, Mayurbhanj Road,
Calcutta - 700 023.

Model		:(i)	(ii)	(iii)
		: Flameproof Air	Flameproof Air	Flameproof Drill Control Panel
		: Circuit Breaker	Break Gate End	for Control & Protection
		: Distribution Panel	Box	of Coal Drills
Rated Current	A	: 400	300	
Rated	V	: 550/440	550/440	
PH		: 3	3	
C/S		: 50	50	
Model		:(iv)	(v)	(vi)
		: Flameproof Push	Flameproof	3.3 KV Outdoor Type
		: Button Station	Drawout Type	Air Break Field
		: for Remote Control	Air Circuit	Switch Unit
		: of any Sing or	Breaker	
		: Sequential Starters	Distribution	
		: for use in Group	Panel	
		: I, II A & II B Gases		

G : Machinery of Motive Power

Rated Current	A	:	-	300	-
Rated	V	:	-	3.3	-
PH	:	:	-	3	-
C/S	:	:	-	50	-

Model	:	(vii)	
	:	FLP/NFLP	
	:	Transwitch Unit	
Rated	KVA	:	315
	V	:	550/440
PH	:	:	3
C/S	:	:	50

Model	:	(viii)	(ix)
	:	Fault Making	Heavy Duty Air
	:	Load Breaking	Break Power
	:	Isolating Switch	
Rated Current	A	:	200
Rated	KV	:	3.3
			16,21,30,40,50,63
			80, 170,300,420

(b) Oil Circuit Breakers

Manufacturer/Supplier : M/s General Electric Co. of India Ltd.,
Magnet House, 6, Chittaranjan Avenue,
Calcutta - 700 072.

Type	:	(i)	(ii)	(iii)
	:	KAD	BVP 17	K
Rated	KV	:	3.3,6.6 & 11	13.2
Rated	MVA	:	150, 250, 350	500
Rated Current	A	:	Up to 1200	1250
Rated	V	:	-	-
Tension	:	:	High	High
				Up to 26
				Up to 1200
				Up to 660
				Low

(c) Vacuum Circuit Breakers

1. Manufacturer/Supplier : M/s Andrew Yule & Co. Ltd.,
14, Mayurbhanj Road,
Calcutta - 700 023.

Model	:	(i)	(ii)
	:	Vacuum Circuit	-
	:	Breaker Pannel	
Rated	KV	:	12
Rated	MVA	:	750
Rated Current	A	:	3150
			630

2. Manufacturer/Supplier : M/s General Electric Co. of India Ltd.,
'Magnet House', 6, Chittaranjan Avenue,
Calcutta - 700 072.

Rated	KV	:	13.2, 22, 36
Rated	MVA	:	2500
Rupturing Capacity	KV	:	31.5

G : Machinery of Motive Power

G II (4) Vacuum Contactor & Panels

1. Manufacturer/Supplier : M/s Andrew Yule & Co. Ltd.,
14, Mayurbhanj Road,
Calcutta - 700 023.
- Model : LT power Distribution Board, Control Panel & Relay Panel
2. Manufacturer/Supplier : M/s General Electric Co. of India Ltd.,
'Magnet House', 6, Chittaranjan Avenue,
Calcutta - 700 072.
- Rated KV : 3.3 or 6.6
Rated Current A : 400
System Voltage V : 3300 or 6600
3. Manufacturer : M/s Flameproof Control Gears, Dhanraj Industrial Estate,
Sitaram Jadhav Road,
Lower Parel (West),
Mumbai - 400 013. Supplier : M/s Gaurav Agencies,
18, Ismail Building,
381, Dr. D. N. Road,
Opp. Flora Fountain,
Mumbai - 400 023.
- Rated KV : 6.6
Rated Current A : 400

G II (5) Switch Socket

3. Manufacturer : M/s Flameproof Control Gears, Dhanraj Industrial Estate,
Sitaram Jadhav Road,
Lower Parel (West),
Mumbai - 400 013. Supplier : M/s Gaurav Agencies,
18, Ismail Building,
381, Dr. D. N. Road,
Opp. Flora Fountain,
Mumbai - 400 023.
- (i) (ii)
- Types : Flameproof Switch Socket Combined Flameproof Weatherproof Switch Socket Combined
No. of Poles : 2 & 3 2 & 3
Rating : 15A & 25A At 250V & 500V 16A at 250 & 500 V
25A at 250 & 500 V
(For 3 pole only)
63A at 500 V & 24A
at 24V AC/DC
- (iii) (iv)
- Types : Flameproof Limit Switches Flameproof Weatherproof Limit Switches
No. of Poles : - -
Rating : 500V at 10A 10A & 25A at 500V
- (v) (vi)
- Types : Flameproof Pressure Switches Flameproof Weatherproof Rotary Switch with Top & Bottom Entry
No. of Poles : - -
Rating : - 6A, 16A & 25A at 250V

G : Machinery of Motive Power

Types	:	(vii) Sweet Steel/Cast Iron Clad	(viii) Combination Fuse Switches
No. of Poles	:	3 & 4	-
Rated Current	A :	63 to 400	63,100,200 & 300

G II (6) Gate End Boxes

1. Manufacturer	:	M/s Flameproof Control Gears, Dhanraj Industrial Estate, Sitaram Jadhav Road, Lower Parel (West) Mumbai - 400 013.	Supplier :	M/s Gaurav Agencies, 18, Ismail Building, 381, Dr. D. N. Road, Opp. Flora Fountain, Mumbai - 400 023.
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Type	:	(i) Flameproof Junction Boxes	(ii) Square Junction Boxes
Rating	:	30 & 60 at 500V	60 & 100 at 500V

G II (7) Flameproof Remote Control Panel

1. Manufacturer	:	M/s Flameproof Control Gears, Dhanraj Industrial Estate, Sitaram Jadhav Road, Lower Parel (West) Mumbai - 400 013.	Supplier :	M/s Gaurav Agencies, 18, Ismail Building, 381, Dr. D. N. Road, Opp. Flora Fountain, Mumbai - 400 023.
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Type	:	(i) Flameproof Hosit Control Panels	(ii) Flameproof Remote Control Panels
Rating	A :	Upto 100 Mild Steel Upto 125 H. P. Cast Iron	10 & 25 at 500V Weatherproof Remote Control are also available

G II (8) Flameproof Isolator

Manufacturer	:	M/s Flameproof Control Gears, Dhanraj Industrial Estate, Sitaram Jadhav Road, Lower Parel (West), Mumbai - 400 013.	Supplier :	M/s Gaurav Agencies, 18, Ismail Building, 381, Dr. D. N. Road, Opp. Flora Fountain, Mumbai - 400 023.
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Type	:	Flameproof Isolator Tripple Pole
Rated	A :	16, 25, 40, 63 & 100 at 500V

G II (9) Transformers

1. Manufacturer/Supplier	:	M/s Andrew Yule & Co. Ltd., 14, Mayurbhanj Road, Calcutta - 700 023.
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Model	:	(i) Flameproof Aircooled Lighting	(ii) Flameproof Lighting & Signaling	(iii) Power & Distribution Transformers
Phase	:	Single	-	-
Rated	KVA :	1 to 5	1.5	-
Rated	V :	550/430	550/25 for Light Circuits	-
	:	-	125/15 for Signaling Load	-
C/S	:	50	-	-

G : Machinery of Motive Power

2. Manufacturer/Supplier : M/s General Electric Co. of India Ltd.,
'Magnet House', 6, Chittaranjan Avenue,
Calcutta - 700 072.

		(i)	(ii)
Model	:	Flameproof	Non-Inflamable Liquid Cooled
Rated	KVA :	250 & 315	-
Rated Primary	V :	Upto 5.6	-
Rated Secondary	V :	550/440	-

3. Manufacturer/Supplier : M/s Transformers & Electrical Kerala Ltd.,
Angamally South - 683573, Kerala.

		(i)	(ii)	(iii)
Model	:	Current	Potential	Power
Type	:	Porcelain	Porcelain	-
Rated	KV :	Upto 400	245	400

G II (10) Relays

Manufacturer : M/s Lakshmi Electrical Control Systems Ltd.,
58, A, Avanashi Road,
Coimbatore - 641 037. Supplier : M/s Batliboi & Co. Ltd.,
Apejey House, 6th Floor
Dr. V. B. Gandhi Marg, Fort,
Mumbai - 400 023.

		(i)	(ii)	(iii)	(iv)
Types	:	CT 3-12	CT 3-12	CT 3-23	CT 3-32
Current Setting Ranges	A :	0.1 to 0.16 0.15 to 0.24 0.24 to 0.38 0.28 to 0.62 0.62 to 1 1 to 1.6 1.6 to 2.5 2.5 to 4 3.8 to 6 6 to 9.5 * 8.5 to 12.5	12 to 16	16 to 23	23 to 32
Maximum Rated Current of Back-up Fuse	A :	25 & 40 For*	16, 23 & 30	50	50

G II (11) Fractional Horse Power Electric Motor

1. Manufacturer/Supplier : M/s Alpha Dynamic Products Pvt. Ltd.,
Udyog Nagar, Plot No. 5 & 6, Road No. 14,
Udhna, District : Surat - 394210.

		(i)	(ii)	(iii)	(iv)
Model	:	Alpha	Alpha	Alpha TE	Alpha FLP
V	:	220/330	440/440	-	-
HP	:	0.125 to 1	0.25 to 2	0.25 to 0.50	0.25 to 0.725
Speed	rpm :	1000, 1500, & 3000	1000, 1500 & 3000	1440	1440
		Single Phase	Three Phase Squirrel	Single Phase	Three Phase
		Fractional Horse Power	Gage	Flameproof	Flameproof

G : Machinery of Motive Power

Model		(v)	(vi)	(vii)
	V	Alpha TEFC	Alpha FLP	Alpha TEFC
HP		-	1	2 to 5
Speed	rpm	1440	1440	1440
		Single Phase	Three Phase	Three Phase
		Flameproof	Flameproof	Flameproof

G II (12) Diesel Generator Sets

Capacity KVA : Up to 100
Manufacturer/Supplier : M/s Batliboi & Co. Ltd.,
 Appejay House, 6th Floor
 Dr. V. B. Gandhi Marg, Fort,
 Mumbai - 400 023.

Engine Make & Model		(i)	(ii)	(iii)
Continuous output	KVA	Kirloskar TA2/TF2	Kirloskar TV2	Kirloskar HA 294
	KW	10	10	15
No. of Cylinders		8	8	12
BHP @ 1500 rpm		2	2	2
Aspiration		12	14	19
Cooling		Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
		Air	Water	Air
Engine Make & Model		(iv)	(v)	(vi)
Continuous output	KVA	Kirloskar RB22	Kirloskar 394	Kirloskar RB 33
	KW	20	25	30
No. of Cylinders		16	20	24
BHP @ 1500 rpm		2	3	3
Aspiration		25.5	32	38
Cooling		Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
		Water	Air	Water
Engine Make & Model		(vii)	(viii)	(ix)
Continuous output	KVA	Kirloskar 494	Kirloskar RB44	Kirloskar HA 494 TC
	KW	35	40	45
No. of Cylinders		28	32	36
BHP @ 1500 rpm		4	4	4
Aspiration		43	50.5	56
Cooling		Naturally Aspirated	Naturally Aspirated	Turbo Charged
		Air	Water	Air
Engine Make & Model		(x)	(xi)	(xii)
Continuous output	KVA	Cummins 4 BT 39 GI	Kirloskar HA 694	Leyland ALU 3TC
	KW	50	55	55
No. of Cylinders		40	44	44
BHP @ 1500 rpm		4	6	6
Aspiration		62	65	78
Cooling		Turbocharged	Naturally Aspirated	Naturally Aspirated
Dimensions	mm	Water	Air	Water
WT	kg	1950X1000X950	-	-
		1050	-	-

G : Machinery of Motive Power

Engine Make & Model	:	(xiii)	(xiv)	(xv)
Continuous output	KVA	Cummins 6B5 9 G	Kirloskar RB 66	Leyland ALU 400
	KW	55	62.5	60.5
No. of Cylinders	:	44	50	56
BHP @ 1500 rpm	:	4	6	6
Aspiration	:	62	76	86
Cooling	:	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
Dimensions	mm	Water	Water	Water
WT	kg	2200X1000X950	-	-
		1150	-	-
Engine Make & Model	:	(xvi)	(xvii)	(xviii)
Continuous output	KVA	Cummins N4 95 GI	Kirloskar HA 694	Leyland ALU 402
	KW	62.5	70	70
No. of Cylinders	:	50	56	56
BHP @ 1500 rpm	:	4	6	6
Aspiration	:	85	83	91.3
Cooling	:	Naturally Aspirated	Turbocharged	Naturally Aspirated
Dimensions	mm	Water	Air	Water
	kg	3100X1300X1650	-	-
		1800	-	-
Engine Make & Model	:	(xix)	(xx)	(xxi)
Continuous output	KVA	Leyland ALU 411	Cummins N495G	6 BT 59G1
	KW	75	75	80
No. of Cylinders	:	60	60	64
BHP @ 1500 rpm	:	6	4	6
Aspiration	:	102	93	98
Cooling	:	Naturally Aspirated	Turbocharged	Turbocharged
Dimensions	mm	Water	Water	Water
	kg	-	3100X1300X1650	2250X1000X1100
		-	1850	1250
Engine Make & Model	:	(xxii)	(xxiii)	
Continuous output	KVA	Kirloskar RB 66TC	NT 495 G	
	KW	81.25	100	
No. of Cylinders	:	65	84	
BHP @ 1500 rpm	:	6	80	
Aspiration	:	105	4	
Cooling	:	Turbocharged	Turbocharged	
Dimensions	mm	Water	Water	
	KG	-	3100X1325X1750	
		-	2350	
2. Manufacturer/Supplier	:	M/s Greaves Cotton & Company Limited, 1, Dr. V. B. Gandhi Marg, Mumbai - 440 023.		
Model	:	(i)		
Output	KVA	D 232 V 6		
Engine	HP	90		
	rpm	109		
		1500		

G : Machinery of Motive Power

Capacity	KVA	:	Above 100		
1. Manufacturer/Supplier	:		M/s Batliboi & Co. Ltd., Appejay House, 6th Floor, Dr. V. B. Gandhi Marg, Fort, Mumbai - 400 023.		
			(i)	(ii)	(iii)
Engine Make & Model	:		Leyland 680	Cummins NTC 495G	Cummins NT 743 GI
Continuous output	KVA	:	110	125	160
	KW	:	88	100	128
No. of Cylinders	:		6	4	6
BHP @ 1500 rpm	:		141	154	205
Aspiration	:		Naturally Aspirated	Turbocharged	Turbocharged
Cooling	:		Water	Water	Water
Dimensions	mm	:	-	3100X1325X175	5700X1325X1850
WT	kg	:	-	2350	2500
			(iv)	(v)	(vi)
Engine Make & Model	:		Cummins NT 743 GI	Cummins NTA 743G	Cummins NTA 855G
Continuous output	KVA	:	180	200	250
	KW	:	144	160	200
No. of Cylinders	:		6	6	6
BHP @ 1500 rpm	:		231	255	306
Aspiration	:		Turbocharged Aftercooled	Turbocharged Aftercooled	Turbocharged Aftercooled
Cooling	:		Water	Water	Water
Dimensions	mm	:	3700X1325X1850	3700X1325X1850	3700X1325X1950
WT	kg	:	2600	2700	2900
			(vii)	(viii)	(ix)
Engine Make & Model	:		Cummins 1150 G	Cummins KTA 1150G	Cummins VT 1710G
Continuous output	KVA	:	320	380	437.5
	KW	:	256	304	350
No. of Cylinders	:		6	6	12
BHP @ 1500 rpm	:		380	450	530
Aspiration	:		Turbocharged Aftercooled	Turbocharged Aftercooled	Turbocharged Aftercooled
Cooling	:		Water	Water	Water
Dimensions	mm	:	1200X1500X1750	4200X1500X1750	4800X1600X2300
WT	kg	:	3950	4100	6100
			(x)	(xi)	(xii)
Engine Make & Model	:		Cummins VTA 1710G	Cummins KT 2300G	Cummins KTA 2300G
Continuous output	KVA	:	500	625	750
	KW	:	400	400	600
No. of Cylinders	:		12 V	12 V	12 V
BHP @ 1500 rpm	:		614	614	890
Aspiration	:		Turbocharged Aftercooled	Turbocharged Aftercooled	Turbocharged Aftercooled
Cooling	:		Water	Water	Water
Dimensions	mm	:	4800X1600X2300	4800X1600X2300	5500X1650X2800
WT	kg	:	6200	9000	-
			(xiii)		
Engine Make & Model	:		Cummins KTA 3067G		
Continuous output	KVA	:	1000		
	KW	:	800		

G : Machinery of Motive Power

No. of Cylinders : 16
 BHP @ 1500 rpm : 1180
 Aspiration : Turbocharged Aftercooled
 Cooling : Water
 Dimensions mm : 6100X1650X2850
 WT kg : 11500

2. Manufacturer/Supplier : M/s Greaves Cotton and Company Limited,
 1, Dr. V. B. Gandhi Marg,
 Mumbai - 400 023.

		(i)	(ii)	(iii)
Model		DT 232 V 6	D 232 V8	TD 232 V8
Output	KVA	120	120	160
Engine	HP	143	145	190
	rpm	1500	1500	1500
		(iv)	(v)	(vi)
Model		D 232 V 12	TD 232 V 12	TBD 232 V 12
Output	KVA	175	245	285
Engine	HP	205	286	334
	rpm	1500	1500	1500

3. Manufacturer/Supplier : M/s Larsen & Toubro Ltd.,
 L & T House, Bellard Estate,
 Mumbai - 400 038.

Type		(i)	(ii)	(iii)	(iv)
Genset Rating		225 KVA	300 KVA	380 KVA	500 KVA
Engine Type		6-71 T	6V-92 TA	8V-92 TA	12V-71 TA
Engine Model		1063-7305	8063-7416	8083-7405	
Gross Prime	HP	263	360	454	581
Gross Standby	HP	289	400	500	640
No. of Cylinders		6	6	8	12
Displacement (LTR)		6.99	9.10	12.10	13.97
Combustion System		Direct Injection			
Electrical System		24 V			
Engine Governor		Electronic			
Type		(v)	(vi)	(vi)	
Genset Rating		600 KVA	750 KVA	800 KVA	
Engine Type		12V-92 TA	16V-92 TA	16V-92 TA	
Engine Model		8123-7416	8163-7405	8163-7416	
Gross Prime	HP	677	903	929	
Gross Standby	HP	747	946	1025	
No. of Cylinders		12	16	16	
Displacement (LTR)		18.10	24.10	24.10	
Combustion System		Direct Injection			
Electrical System		24 V			
Engine Governor		Electronic			

G II (13) Cables

(a) Cables for 150/250 V

Manufacturer/Supplier : M/s Cable Corporation of India,
 Poonam Chambers, North Wing,
 Shivsagar Estate, Worli,
 Mumbai - 400 018.

G : Machinery of Motive Power

Type	:	(i) MGG	(ii) MGCG
No. of Cores	:	Single	Single
Area	sq/mm	1.5 to 300, Ship Wiring Cable	1.5 to 300, Ship Wiring Cable

(b) Cables for 250/440V

Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Worli, Mumbai - 400 018.
No. of Cores	:	2
Area	sq/mm	1.5 to 150, Ship Wiring Cable

(c) Cables for 300/3000 V

Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Worli, Mumbai - 400 018.	
Type	:	(i) Tropoflex	(ii) Tropoflex
No. of Cores	:	Single	13-27
Area	sq/mm	1.5 to 300	Up to 4

(d) Cables for 440/750 V

Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai - 400 018.		
Type	:	(i) -	(ii) -	(iii) MGCG
No. of Cores	:	5 to 60	3	2
Area	sq/mm	1.5 & 2.5 Ship Wiring Cable	1.5 to 300 Ship Wiring Cable	1.5 to 25 Ship Wiring Cable
Type	:	(iv) MGG	(v) MGCG	(vi) MGCG
No. of Cores	:	3	4	2
Area	sq/mm	1.5 TO 120	1.5 TO 95	1.5 TO 25
Type	:	(vii) MGG	(viii) MGCG	
No. of Cores	:	3	4	
Area	sq/mm	1.5 TO 120	1.5 TO 95	

(e) Cables for 650/1100 V

Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai - 400 018.
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G : Machinery of Motive Power

Type			(i) Tropodur Unarmoured Cable	(ii) Tropodur Unarmoured Cable	(iii) Tropodur Armoured Cable
No. of Cores			AYY	AYY	AYWY
Area	sq/mm		1	2 & Multy	2 & Multy
Dia	mm		4 to 1000	1.5 to 500	1.5 to 10
			8.3 to 56	11.5 TO 80	15 TO 21.5
Type			(iv) Tropodur Armoured Cable	(v) Tropodur Unarmoured Control Cable	(vi) Tropodur Armoured Control Cable
No. of Cores			AYFY	YY	YWY
Area	sq/mm		-	2 to 61	2 to 61
Dia	mm		16 to 500	1.5 and 2.5	1.5 and 2.5
			21.5 to 82	11.5 to 39	15 to 40
Type			(vii) Tropodur Armoured Control Cable		
No. of Cores			YFY		
Area	sq/mm		12 to 61		
Dia	mm		1.5 & 2.5		
			19.5 to 36		

(f) Cables for 1100 V

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

No. of Cores			(i) PVC Insulated Heavy Duty Copper and Aluminium Conductors	(ii) PVC Insulated With Aluminium Conductor PVC Sheathed Unarmoured Cable	(iii) PVC Insulated Aluminium Conductor Armoured Cable
Conductor Size	sq mm		Multi	Single	Single
Dia	mm		1.5 to 50	1.5 to 1000	10 to 1000
			-	7 to 53.5	13 to 59.5
No. of Cores			(iv) PVC Insulated Aluminium Conductor Unarmoured Cable	(v) PVC Insulated Aluminium Conductor Armoured Cable	(vi) PVC Insulated PVC Sheathed Aluminium Conductor Unarmoured Cable Inner and outer
Conductor Size	sq mm		Two	Two	Three
Dia	mm		1.5 to 500	1.5 to 500	1.5 to 500
			11 to 62	15 to 64	11.5 to 71
No. of Cores			(vii) PVC Sheathed, PVC Insulated, Aluminium Conductor, Armoured Cable	(viii) PVC Sheathed PVC Insulated, Aluminium Conductor, Unarmoured Cable Inner and outer sheaths will be extruded in one operation	(ix) PVC Sheathed PVC Insulated, Aluminium Conductor, Armoured Cable
Conductor Size	sq mm		3	3½	3½
Dia	mm		1.5 to 500	25 to 500	25 to 500
			15.5 to 72.5	24.5 to 78.5	26 to 80

G : Machinery of Motive Power

		(x) PVC Sheathed, PVC Insulated, Aluminium Conductor Cable, Inner and outer sheaths will be extruded in one operation	(xi) PVC Sheathed PVC Insulated, Armoured Cable	(xii) PVC Sheathed PVC Insulated, Unarmoured Control Cable with 1.5 sqmm Copper Conductor Inner and outer sheaths will be extruded in one operation
No. of Cores	:	4	4	2 to 61
Conductor Size	sq mm	: 1.5 to 500	1.5 to 500	-
Dia	mm	: 12.5 to 82	16 to 83.5	11 to 33.5
		(xiii) PVC Sheathed, PVC Insulated Armoured Control Cable with 1.5 sqmm Copper Conductor, Multi Cores	(xiv) PVC Sheathed, PVC Insulated Unarmoured Control Cable with 2.5 sqmm Copper Conductor, Inner and outer sheaths will be extruded in one operation, Multi Cores	(xv) PVC Sheathed PVC Insulated Armoured Control Cable with Conductor, Multi Cores
No. of Cores	sq mm	: 2 to 61	2 to 61	2 to 61
Conductor Size	mm	: 15 to 36.5	12 to 39	16 to 42
		(xvi) PVC Sheathed, VIR/EPR insulated Collectively Screened Type-FT 3	(xvii) PVC Sheathed, Trailing Cable VIR/EPR Insulated, Individually Screened, Type-FT 4	(xviii) PVC Sheathed Trailing Cable VIR/EPR Insulated Individually Screened Type - FT 6
No. of Cores	:	3	3	3
	mm	: 41.5 to 76	44.5 to 74.5	40 to 72
	sq mm	: 16 to 95	16 to 95	16 to 95
		(xix) PVC Sheathed, Drill Cable, VIR/EPR Insulated	(xx) Pliable Armoured Trailing Cable VIR/EPR Insulated PVC Insulated	(xxi) Remote Control Cable VIR/EPR Insulated
Type	:	FTD 3	P 3	PC 2
No. of Cores	:	3	3	3
Area	sq mm	: 6	6 to 35	2.5 & 4
Dia	mm	: 28.5	32.5 to 54.5	19 & 20
		(xxii) Remote Control Cable VIR/EPR Insulated	(xxiii) Lighting Cables VIR/EPR Insulated PVC Sheathed	(xxiv) Lighting Cables VIR/EPR Sheathed PVC Insulated

G : Machinery of Motive Power

Type	:	PC 1	PL - 2	PL - 1
No. of Cores	:	2	5	-
Area	sq mm	2.5 & 4	4	4
Dia	mm	18 & 19.5	24.5	23
			For low voltage lighting at the coal face	Low voltage lighting at the coal face
		(xxv) Land Line Cable Individually Screened EP Rubber Insulated, PVC Sheathed	(xxvi) Flexible Trailing Cable Pliable Armoured	(xxvii) Flexible Trailing Cable Pliable Armoured
No. of Cores	:	3	3	4
Area	sq mm	50, 95 & 185	6 to 300	6 to 300
Dia	mm	75, 82.5 & 100	27 to 103	30 to 112
2. Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Mumbai - 400 018.		
Type	:	(i) FT	(ii) FT	(iii) FT
No. of Cores	:	3 & 5	4 & 5	5 & 6
Area	sq mm	16 to 95	16 to 95	16 to 95
		Cable for Drill, Coal Cutting Machine & Coal Face Lighting		
Type	:	(iv) FTD	(v) P	(vi) PC
No. of Cores	:	3 & 5	3 & 5	2 & 3
Area	sq mm	6	6 to 35	2.5 to 4
Type	:	(vii) PL	(viii) RWR	
No. of Cores	:	4 & 5	2 or 3	
Area	sq mm	4	6 to 300	
		Tropoflex Flexible Trailing Cable for use in Quarries and Metalliferous Mines		
No. of Cores	:	(ix) 1	(x) 2	(xi) 3
Area	sq mm	1.5 TO 630	1.5 TO 300	1.5 TO 300
		Tropolast Armoured Cable for Fixed Installation		
No. of Cores	:	(xii) 4	(xiii) 5	
Area	sq mm	1.5 TO 300	1.5 TO 150	
		Tropolast Armoured Cable for Fixed Installation		
No. of Cores	:	(xiv) 1	(xv) 2	(xvi) 3
Area	sq mm	1.5 to 630	1.5 to 300	1.5 to 300
		Tropoflex Armoured Cable, Flexible Heat Resisting, Silicon Rubber Insulated		

G : Machinery of Motive Power

No. of Cores	:	(xvii)	(xviii)	
Area	sq mm	4	5	
		1.5 to 300	1.5 to 150	
		Tropoflex Armoured Cable, Flexible, Heat Resisting, Silicon Rubber Insulated		
No. of Cores	:	(xix)	(xx)	(xxi)
Area	sq mm	1	2	4
		1.5 to 300	1.5 to 50	1.5 to 50
		Tropothern Cable, Heat Resisting, Silicon Rubber Insulated		
No. of Cores	:	(xxii)	(xxiii)	
Area	sq mm	Propoflex	Tropoflex	
		3	4	
		6 to 300	6 to 300	
		Pliable Armoured Flexible Trailing Cable		
3. Manufacturer/Supplier	:	M/s Universal Cable Limited, Satna (M. P.)		
		PVC Cables as per is - 1554 Part 1 and 2 Lift Cables with and without Steel Hauser as per IS - 4289. Applicable for Elevators and Lifts HV Power Cables, as per IS-7098 (Part II) applicable for Power Distribution Feeders at Medium Voltage		

(g) Cables for 1.9/3.3 K

1. Manufacturer/Supplier	:	M/s Asian Cables Corporation Ltd., Ceat Mahal, 463, Dr. Annie Besant Road, Worli, Mumbai - 400 025.		
No. of Cores	:	4		
Area	sq mm	16 to 300		
Dia	mm	46 to 111		
		Flexible Trailing Cables for use in Quarries and Metalliferous Mines Pliable Armoured.		
2. Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Mumbai - 400 018.		
Type	:	(i) AYFY		
No. of Cores	:	3		
Area	sq mm	25 to 500		
Dia	mm	28.5 to 76		
		Tropodur Armoured Cable		

(h) Cables for 3.3 KV

1. Manufacturer/Supplier	:	M/s Asian Cables Corporation Ltd., Ceat Mahal, 463, Dr. Annie Besant Road, Worli, Mumbai - 400 025.		
		(i)	(ii)	
		PVC Sheathed, XLPE Insulated, Unarmoured Screened Cables Aluminium Conductor	PVC Sheathed, XLPE Insulated Armoured Screened Cables Aluminium Conductor	

G : Machinery of Motive Power

No. of Cores	:	1		3
Area	sq mm	: 25 to 1000		25 to 400
Dia	mm	: 15 to 53		33 to 78.5
2. Manufacturer/Supplier	:	M/s Universal Cable Limited, Satna (M. P.) PVC Cables As Per IS - 1554 Part 1 & 2		
(i) Cable for 3.8/6.6 KV				
1. Manufacturer/Supplier	:	M/s Alope Cables Industries Pvt Ltd., Hastings Chamber, 7C, 3rd Floor, Kiransankar Roy Road, Calcutta - 700 001.		
Type	:	PVC Insulated and Sheathed Armoured or unarmoured Cables, Capacity upto 6.6 KV		
2. Manufacturer/Supplier	:	M/s Asian Cables Corporation Ltd., Ceat Mahal, 463, Dr. Annie Besant Road, Worli, Mumbai - 400 025.		
		(i) PVC Sheathed, Cables, XLPE Insulated, Aluminium Conductor, Unarmoured Screened	(ii) PVC Sheathed, Cables, XLPE Insulated, Aluminium Conductor, Armoured Screened	(iii) PVC Sheathed, XLPE Insulated, Aluminium Conductor, Flexible Trailing Cables, Pliable Armoured
No. of Cores	:	1	3	4
Area	sq mm	: 25 to 1000	25 to 400	16 to 300
Dia	mm	: 18.5 to 58.5	42 to 90.5	52 to 116.5
3. Manufacturer/Supplier	:	M/s Cable Corporation of India, Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai - 400 018.		
		(i) Tropothen X Armoured Cable	(ii) Tropothen X Unarmoured Cable	(iii) Tropoflex Trailing Cable Pliable Armoured Flexible Cable
Type	:	A 2 X CEFY	A 2 X CY	-
No. of Cores	:	3	1	4
Area	sq mm	: 25 to 500	25 to 800	16 to 300
Dia	mm	: 40 to 97	20.5 to 54	-
		(iv) Tropoplast Armoured Cable for Fixed Installation	(v) Armoured Cable Tropoflex Flexible	(vi) Tropodur Armoured Cable

G : Machinery of Motive Power

Type	:	-			AYFY
No. of Cores	:	1	3	1	3
Area	sq mm	16 to 300	16 to 300	16 to 300	16 to 300
Dia	mm	-			25 to 500
					35 to 79

(j) Cables for 6.35/11 KV

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

			(i)	(ii)	(iii)
			"ASIAN" PILC Cables with Aluminium Conductor	"ASIAN" PILC Armoured Cable With Aluminium Conductors	PILC Armoured Cable with Aluminium Conductors
No. of Cores	:	1	3	3	3
Area	sq mm	16 to 100	16 & 25	16 & 25	16 & 25
		Round Conductors	Round Conductor	Round Conductor	Round Conductor
		35 to 500	35 to 500	35 to 500	35 to 400
			(iv)	(v)	(vi)
			PVC Sheathed Cables, XLPE Insulated Unarmoured Screened with Aluminium Conductor	PVC Sheathed Cable With Aluminium Conductor, XLPE Insulated, Armoured Screened	PVC Sheathed, Cable With Aluminium Conductor, Unarmoured Screened
No. of Cores	:	1	3	1	1
Area	sq mm	25 to 1000	25 to 400	25 to 1000	25 to 1000
Dia	mm	21 to 59	45.5 to 92	21 to 59	21 to 59

2. Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

			(i)	(ii)	(iii)
			Paper Insulated Cable	Tropothen X Armoured Cable	Tropothen X Cable
Type	:	APLST	A2XCFY	A2XCY	A2XCY
No. of Cores	:	3	3	1	1
Area	sq mm	16 to 500	25 to 500	25 to 800	25 to 800
Dia	mm	38 to 81	45 to 97	22 to 54	22 to 54

(k) Cables for 6.6/6.6 KV

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

			(i)	(ii)
			Unarmoured	Armoured
Type	:			
No. of Cores	:	1	3	3
Area	sq mm	25 to 1000	25 to 400	25 to 400
Dia	mm	21 to 59	45.5 to 92	45.5 to 92

G : Machinery of Motive Power

2. Manufacturer/Supplier : M/s Universal Cables Limited,
Satna (M. P.)
Mining and Quarry Cable
Flat Shuttlecar Cables
As per IS - 1026, IS - 691, BS - 708, BS - 6118

(I) Cables for 11/11 KV

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

		(i)	(ii)	(iii)
Type	:	-	Armoured	Armoured
No. of Cores	:	1	3	3
Area	sq mm	25 to 1000	16 to 25 (Round Corners) 35 to 500	16 & 25 (Round Conductors) 35 to 400
		(iv)	(v)	
Type	:	Unarmoured Screened	Armoured Screened	
No. of Cores	:	1	3	
Area	sq mm	25 to 1000	25 to 40C	
Dia	mm	25 to 63.5	55.5 to 101.5	

2. Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

		(i)	(ii)	(iii)
Type	:	Tropothen-X Armoured	Tropothen-X Unarmoured	Tropodur Armoured
No. of Cores	:	A2XCEFY 3	A2XCY 1	AYCEFY 3
Area	sq mm	25 to 500	25 to 800	25 to 500
Dia	mm	54 to 106	26 to 58	46 to 99
		(iv)	(v)	(vi)
Type	:	Tropolast Armoured for Fixed Installation	-	Tropoflex Armoured Flexible
No. of Cores	:	1	3	1
Area	sq mm	16 to 300	16 to 240	16 to 300
		(vii)	(viii)	
Type	:	Tropoflex Armoured Flexible	Paper Insulated APLSTS	
No. of Cores	:	3	3	
Area	sq mm	16 to 240	16 to 500	
Dia	mm	-	41 to 84	

G : Machinery of Motive Power

3. Manufacturer/Supplier : M/s Universal Cables Limited,
Satna (M. P.)
Rubber Cables,
Natural Rubber Insulated/Sheathed Flexible/Non Flexible Cables As per IS 434,
Welding Cables with Aluminium Alloy Conductor As Per IS - 434

(m) Cables for 12.7/22 KV

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

		(i)	(ii)
Type	:	Unarmoured Screened	Armoured Screened
No. of Cores	:	1	3
Area	sq mm	35 to 1000	35 to 400
Dia	mm	27 to 64.5	61 to 104
PVC Sheathed, XLPE Insulated, Aluminium Conductor			
		(iii)	(iv)
Type	:	-	Armoured
No. of Cores	:	1	3
Area	sq mm	25 to 1000	25 to 95
			Rounded Conductor
			120 to 400

PILS Cables with Aluminium Conductor

2. Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

		(i)	(ii)
Type	:	A2XCY	A2XCFY
No. of Cores	:	1	3
Area	sq mm	35 to 800	35 to 500
Dia	mm	28 to 60	60 to 100
		Tropothen-X- Unarmoured	Trophoten-X- Armoured
		(iii)	(iv)
Type	:	HSL	H
No. of Cores	:	3	3
Area	sq mm	25 to 400	25 to 400
Dia	mm	58 to 102	56 to 91
		Paper Insulated	Paper Insulated

(n) Cables for 19/33 KV

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

		(i)	(ii)
No. of Cores	:	Single	Three Screened
Area	sq mm	70 to 1000	70 & 95 Round Conductor
Asian PILC Cables with Aluminium Conductors			

G : Machinery of Motive Power

No. of Cores	:	(iii) Unarmoured Screened Single	(iv) Unarmoured Screend Three
Area	sq mm	: 50 to 1000	50 to 400
Dia	mm	: 35 to 70.5	79.5 to 116.5

PVC Sheathed, XLPE Insulated, Aluminium Conductor

2. Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

Type	:	(i) A2XCFY	(ii) A2XCY
No. of Cores	:	3	1
Area	sq mm	: 50 to 400	50 to 800
Dia	mm	: 76 to 114	36 to 66
		Tropothen X Armoured	Tropothen X Armoured

Type	:	(iii) APLSTS-HSL	(iv) APLSTS-L
No. of Cores	:	3	3
Area	sq mm	: 70 to 400	70 to 400
Dia	mm	: 78 to 108	78 to 97
		Paper Insulated	Paper Insulated

Cables (Capacity Not Specified)

Manufacturer/Supplier : M/s Mazda Cables Pvt. Ltd.,
1773/81, Bhagirath Palace,
Delhi - 110 006.

No. of Cores	:	(i) 2 to 37	(ii) -	(iii) 2 to 37	(iv) -
Area	sq mm	: 1.5	2.5	1.5	2.5
Dia	mm	: 15 to 32	16 to 36	11.5 to 27.5	13 to 32
		Armoured	Armoured	Unarmoured	Unarmoured

G II (14) Traction Batteries

Manufacturer/Supplier : M/s Chloride Industries Ltd.,
Exide House, 59 E, Chowringhee Road,
Calcutta - 700 020.

Model/Type of Cell	:	(i) XVF-7	(ii) XVF-9	(iii) IMF-7	(iv) XVF-11	(v) ILF-7	(vi) IMF-9
Rated Current 6hr Rate A	:	82	110	116	137	149	154
WT Without Acid	kg	: 5.5	7.0	7.3	8.5	8.5	8.8
WT With Acid	kg	: 6.6	8.5	8.8	10.3	10.4	10.7
Qty. Filling Acid	Lit	: 0.9	1.2	1.2	1.5	1.6	1.6
Constant Current	A	: 5	6	7	10	9	9
Model/Type of Cell	:	(vii) XVF-13	(viii) XVF-15	(ix) IMF-11	(x) XLF-9	(xi) THF-7	(xii) XVF-17
Rated Current 6hr Rate A	:	165	192	193	199	200	219

G : Machinery of Motive Power

WT Without Acid	kg	: 10.9	11.5	10.2	10.8	10.6	13.0
WT With Acid	kg	: 12.2	13.9	12.6	13.2	13.3	15.9
Qty. Filling Acid	Lit	: 1.8	2.0	2.00	2.0	2.2	2.4
Constant Current	A	: 10	10.0	11	12	12	13.0
			(xiii)	(xiv)	(xv)	(xvi)	(xvii)
Model/Type of Cell	:	IMF-13	XVF-19	ILF-11	THF-9	IMF-15	XVF-19
Rated Current 6hr Rate A	:	232	247	248	266	269	247
WT Without Acid	kg	: 12.7	14.5	13.5	13.4	14.5	14.5
WT With Acid	kg	: 15.6	17.7	16.9	16.9	18.1	17.7
Qty. Filling Acid	Lit	: 2.4	2.6	2.7	2.9	3.9	2.6
Constant Current	A	: 13	15	15	16	16	15
			(xix)	(xx)	(xxi)	(xxii)	(xxiii)
Model/Type of Cell	:	XVF-21	ILF-13	XVF-23	IMF-17	XVF-25	THF-11
Rated Current 6hr Rate A	:	275	297	302	308	330	331
WT Without Acid	kg	: 16.5	15.8	18.0	16.8	19.5	16.5
WT With Acid	kg	: 19.9	19.4	21.8	20.7	23.6	20.7
Qty. Filling Acid	Lit	: 2.8	3.0	3.2	3.2	3.4	3.5
Constant Current	A	: 16	17	18.5	18	19	20
			(xxv)	(xxvi)	(xxvii)	(xxviii)	(xxix)
Model/Type of Cell	:	THF-13	IMF-19	ILF-15	IMF-21	ILF-17	IMF-23
Rated Current 6hr Rate A	:	339	347	347	385	397	424
WT Without Acid	kg	: 19.4	18.4	18.2	21.3	21.0	23.4
WT With Acid	kg	: 24.6	23.0	22.6	26.0	26.1	28.7
Qty. Filling Acid	Lit	: 4.3	3.8	3.6	3.9	4.2	4.4
Constant Current	A	: 24	21	20	22	23	25
			(xxxv)	(xxxvi)	(xxxvii)	(xxxviii)	(xxxix)
Model/Type of Cell	:	ILF-19	IMF-25	THF-15	IMF-21	ILF-17	IMF-23
Rated Current 6hr Rate A	:	447	462	465	496	532	545
WT Without Acid	kg	: 23.5	25.0	23.0	25.8	26.0	28.3
WT With Acid	kg	: 29.2	30.8	29.0	31.9	32.6	35.3
Qty. Filling Acid	Lit	: 4.7	4.8	5.0	5.0	5.5	5.8
Constant Current	A	: 26	27	28.0	29	31	32
			(xxxvii)	(xxxviii)	(xxxix)	(xxxx)	(xxxxi)
Model/Type of Cell	:	ILF-25	THF-19	THF-21	THF-23	THF-25	
Rated Current 6hr Rate A	:	595	598	665	732	798	
WT Without Acid	kg	: 30.8	29.0	32	35	38	
WT With Acid	kg	: 38.3	36.5	40.7	44.3	48.0	
Qty. Filling Acid	Lit	: 6.2	6.2	7.2	7.7	3.4	
Constant Current	A	: 35	34	38	42	46	

GII (15) Measuring Instruments

(a) Ammeters/Milli Ammeters/Micro Ammeters

1. Manufacturer/Supplier : M/s Flameproof Control Gears
Dhanraj Industrial Estate,
Sitaram Jadhav Road,
Lower Parel (West)
Mumbai - 400 013.
- Supplier : M/s Gaurav Agencies,
18, Ismail Building,
381, D. N. Road,
Opp. Floora Fountain,
Mumbai - 400 023.

Flameproof Ammeter with Bottom and Top Cable Entry

G : Machinery of Motive Power

2. Manufacturer/Supplier	: M/s Oriental Science Apparatus Workshops, Jawaharlal Nehru Marg, Ambala Cantt. - 133 001.		
	(i) AC Ammeter	(ii) AC Ammeter	(iii) AC Ammeter (In Desk Stand Only)
Type	: Switch Board Meter	: Portable	: Panel Meter
Range	: 1.5 & 10 A	: 1 to 10 A	: 1 TO 10 A
Division	: 50	: 100, 125 & 150	: 30, 40, 50 & 60
	(iv) AC Ammeter (In Desk Stand only)	(v) AC Ammeter (Double Range)	(vi) D C Ammeter
Type	: Panel meter	: Portable	: Panel meter
Range	: 1 to 10 A	: 1 to 5 A & 2 to 10 A	: 1 to 3 A
Division	: 40, 50, 60 & 70	: 100, 125 & 150	: 30, 40, & 50
	(vii) D C Ammeter	(viii) D C Ammeter	(ix) D C Ammeter
Type	: Panel meter	: Portable	: Panel meter
Range	: 1 to 3 A	: 1 to 5 A	: 1 to 10 A
Division	: 30, 40, 50 & 60	: 40, 50, 60 & 75	: 50
	(x) D C Ammeter	(xi) D C Ammeter	(xii) D C Ammeter
Type	: Panel meter	: Portable	: Panel meter
Range	: 1 to 15 A	: 1 to 15 A	: 1 to 20 A
Division	: 50 and 30	: 100 & 150	: 30, 40, 50 & 60
	(xiii) D C Ammeter	(xiv) D C Ammeter	(xv) D C Ammeter (With External Shunts)
Type	: Panel meter	: Switch Board meter	: Panel meter
Range	: 1 to 20 A	: 1 to 25 A	: Up to 1000 A
Division	: 40,50,60 & 75	: 50 & 75	: -
	(xvi) D C Ammeter (With External Shunts)	(xvii) D C Ammeter (With External Shunts)	(xviii) D C Ammeter (Double Range)
Type	: Taut Band Meter	: Panel Meter	: Portable
Range	: Up to 1000 A	: Up to 1000 A	: 0 to 1 A & 0 to 5 A
Division	: -	: 50 & 30	: 50
	(xix) D C Ammeter	(xx) Ammeter (A C & D C)	(xxi) Ammeter (A C & D C) (Double Range)
Type	: Portable	: Portable	: Portable
Range	: 0.1 to 1.5A & 1 to 15A	: 1 to 20 A	: 0.5 to 10 A & 1 to 20 A
Division	: 100 & 150	: 100, & 150	: 100 & 150
	(xxii) A C Milli Ammeter (In Desk Stand only)	(xxiii) A C Milli Ammeter (In Desk Stand only)	(xxiv) A C Milli Ammeter

G : Machinery of Motive Power

Type	:	Panel Meter	Panel Meter	Portable
Range	:	1 to 500 Milli A	1 to 500 Milli A	1 to 500 Milli A
Division	:	50	50	100 & 125
		(xxv)	(xxvi)	(xxvii)
		A C Milli	D C Milli	D C Milli
		Ammeter	Ammeter	Ammeter
Type	:	Switch Board Meter	Portable	Flat Meter
Range	:	5 to 500 Milli A	1 to 500 Milli A	1 to 500 Milli A
Division	:	50	50	50
		(xxviii)	(xxix)	(xxx)
		D C Milli	D C Milli	D C Milli
		Ammeter	Ammeter	Ammeter
Type	:	Taut Band Meter	Switch Board Meter	Panel Meter
Range	:	1 to 500 Milli A	50 to 500 Milli A	1 to 500 Milli A
Division	:	50	50	50
		(xxxi)	(xxxii)	(xxxiii)
		D C Milli	D C Milli	D C Milli
		Ammeter	Ammeter	Ammeter
Type	:	Panel Meter	Portable	Panel Meter
Range	:	1 to 500 Milli A	1 to 500 Milli A	1 to 1000 Milli A
Division	:	40, 50 & 60	100 & 125	50
		(xxxiv)	(xxxv)	(xxxvi)
		D C Milli	D C Milli	D C Milli
		Ammeter	Ammeter	Ammeter
		(Double Range)	(Double Range)	(A C & D C)
Type	:	Flat Meter	Portable	Portable
Range	:	1 to 50 Milli A	1 to 50 Milli A	15 to 300
Division	:	& 10 to 500 Milli A	10 to 500 Milli A	Milli A & 30 to 600 Milli A
		50	100	100 & 150
		(xxxvii)	(xxxviii)	(xxxix)
		Milli Ammeter	D C Micro Ammeter	D C Micro Ammeter
Type	:	Portable (AC & DC)	Portable	Taut Band Meter
Range	:	15 to 750 Milla A	0 to 500 Micro A	15 TO 500 Micro A
Division	:	150	50	50
		(xxxx)	(xxxxi)	(xxxxii)
		D C Micro Ammeter	D C Micro Ammeter	D C Micro Ammeter
Type	:	Flat Meter	Panel Meter	Portable
Range	:	50 to 500 Micro A	100, 250 & 500 Micro A	100,250 & 500 Micro A
Division	:	50	50	100 & 125
		(xxxxiii)	(xxxxiv)	
		D C Micro Ammeter	D C Micro Ammeter	
Type	:	Panel Meter	Panel Meter	
Range	:	100 to 1000 Micro A	100 to 1000 Micro A	
Division	:	40, 50 & 60	50	

(b) Voltmeters/Milli Voltmeters

Manufacturer/Supplier : M/s Oriental Science Appratus Workshops,
Jawaharlal Nehru Marg,
Ambala Cantt - 133 001.

G : Machinery of Motive Power

Type	(i) A C Voltmeter Panel Meter	(ii) A C Voltmeter Taut Band Meter	(iii) A C Voltmeter Switch Band Meter
Range	: 10 to 500 V	: 10 to 500 V	: 10 to 500
Division	: 30, 50 & 60	: 50, 60 & 75	: 50, 60 & 75
Type	(iv) A C Voltmeter Panel Meter	(v) A C Voltmeter Portable	(vi) A C Voltmeter (Double Range) Portable
Range	: 10 to 500 V	: 10 to 500 V	: 30/300, 50/100 75/150 & 150/300 V OR Any Combination 1:2, 1:3
Division	: 50 & 75	: 100, 125 & 159	: 100 & 150
Type	(vii) A C Voltmeter (Tripple Range) Portable	(viii) D C Voltmeter Flat Meter	(ix) D C Voltmeter Panel Meter
Range	: 75/150/300, 100/200/500 & 150/300/600 V	: 1 to 300 V	: 1 to 300 V
Division	: 100 & 150	: 30, 40, 50 & 60	: 50 & 30
Type	(x) D C Voltmeter Panel Meter	(xi) D C Voltmeter Switch Board Meter	(xii) D C Voltmeter Portable
Range	: 1 to 500 V	: 1 to 500 V	: 1 to 500 V
Division	: 30, 40 & 50	: 30, 40, 50 & 60	: 40, 50, 60 & 75
Type	(xiii) D C Voltmeter Panel Meter	(xiv) D C Voltmeter Switch Board Meter	(xv) D C Voltmeter Portable
Range	: 1 to 500 V	: 1 to 600 V	: 1 to 500 V
Division	: 50, 60 & 75	: 50, 60 & 75	: 100, 125 & 150
Type	(xvi) D C Voltmeter Portable	(xvii) D C Voltmeter (Double Range) Portable	(xviii) D C Voltmeter (Double Range) Flat Meter
Range	: 3 to 300 V	: 0 to 5V & 0 to 15 V	: 0.1 to 30 V & 1 to 300 V
Division	: 30 & 50	-	: 30, 50 & 60
Type	(xix) D C Voltmeter (Double Range) Portable	(xx) D C Voltmeter (Tripple Range) Flat Meter	(xxi) D C Voltmeter (Tripple Range) Portable
Range	: 0.2 to 150 V & 2 to 300 V	: 0.15 to 1 V 1.5 to 10 V & 15 to 100 V	: 0.15 to 3 V 1.5 to 30 V & 15 to 300 V
Division	: 100, 125 & 150	: 30, 40, 50 & 60	: 100, 125 & 150

G : Machinery of Motive Power

		(xxii) Voltmeter (AC & DC)	(xxiii) Voltmeter (AC & DC) (Double Range)	(xxiv) Voltmeter (AC & DC) (Triple Range)
Type	:	Portable	Portable	Portable
Range	:	30 to 750 V	30 to 300 V & 75 to 750 V	30 to 150 V 75 to 300 V & 150 to 750 V
Division	:	100, 125 & 150	100, 125 & 150	150
		(xxv) D C Milli Voltmeter Flat Meter	(xxvi) D C Milli Voltmeter Panel Meter	(xxvii) D C Milli Voltmeter Panel Meter
Type	:	Flat Meter	Panel Meter	Panel Meter
Range	:	50 to 500 Milli V	50 to 500 Milli V	50 to 500 Milli V
Division	:	30 & 50	40 & 50	50
		(xxviii) D C Milli Voltmeter Taut Band Meter	(xxix) D C Milli Voltmeter Portable	(xxx) D C Milli Voltmeter Panel Meter
Type	:	Taut Band Meter	Portable	Panel Meter
Range	:	50 to 500 Milli V	50 to 500 Milli V	50 to 750 Micro V
Division	:	50, & 75	100, 125 & 150	15, 30, 40, 50 & 60
		(xxxii) D C Milli Voltmeter Panel Meter	(xxxii) D C Milli Voltmeter Panel Meter	(xxxiii) D C Milli Voltmeter Switch Board Meter
Type	:	Panel Meter	Panel Meter	Switch Board Meter
Range	:	50 to 750 Milli V	75, 100, 250 & 500 Milli V	100, 250 & 500 Milli V
Division	:	30, 40 & 50	15 & 50	50
		(xxxiv) D C Milli Voltmeter Flat Meter	(xxxv) D C Milli Voltmeter (Double Range) Portable	(xxxvi) Cell Tester Voltmeter Cell Tester
Type	:	Flat Meter	Portable	Cell Tester
Range	V :	50/500 Milli V	50/500, 100/200 150/300 Milli V	3-0-3
Division	:	50	100 & 250	30-0-30
Sensitivity	ohms/v :	-	-	1000
Weight	kg :	-	-	0.3
(c) Wattmeters				
Manufacturer/Supplier	:	M/s Oriental Science Apparatus Workshops, Jawaharlal Nehru Marg, Ambala Cantt. - 133 001.		
		(i) Single Phase Wattmeters	(ii) Single Phase Wattmeters (Double Range)	(iii) Single Phase Wattmeters (Multiple Range)
Range	V :	30 to 750	50 to 300 & 100 to 600	75 to 300, 150 to 450 & 300 to 600
Division	:	75, 100 & 125	75 & 100	75 & 125

G : Machinery of Motive Power

		(iv)	(v)
Range	V	Low Power Factor Wattmeter 30 to 300, 75 to 450 & 150 to 600	Three Phase Two Element Wattmeter 110/220, 150/300 & 250/500
Division		75 & 125	-
Current Rating	A	-	0.5/1, 1/2 or 2.5/5

(d) Galvanometer

Manufacturer/Supplier : M/s Oriental Science Apparatus Workshops,
Jawaharlal Nehru Marg,
Ambala Cantt. - 133 001.

Type		(i)	(ii)	(iii)
		General	Sensitive	Single Push Button
Resistance	ohms	Purpose Portable	22	22
Division		10	-	-
		35		
Type		(iv)	(v)	(vi)
Resistance	ohms	Super Sensitive	Students	Three Push Button
		22	22	22 AS Galvanometer
				200 AS Milli Voltmeter
				10 Kilo AS Voltmeter
				can be used as Milli Voltmeter
				Voltmeter and Micro-ammeter
Sensitivity		10 Micro as per Scale Division	-	-
Type		(vii)	(viii)	(ix)
Resistance	ohms	Taut Suspension	Commercial	Spot Reflecting
Operated at		25	60	75 to 680
Time Period		-	-	220 V A C
		-	-	-
		-	-	12 to 20 Seconds
Type		(xi)	(xii)	(xiii)
Resistance	ohms	Spot Reflecting	Darsonval	Spot Vibration
Operated at		125 to 625	200	-
Scale	mm	220 VAC or 6 VDC	-	220 VAC
Ring Dia	mm	-	-	150
Winding		-	-	-
		-	-	165
		-	-	2,50 & 500

G II (16) Safety Devices and Accessories

(a) Voltage Regulator

1. Manufacturer/Supplier : M/s Blueline Marketing Pvt. Ltd.,
A-25, Rajouri Garden, Najafgarh Road,
New Delhi - 110 027.

Model		(i)	(ii)	(iii)
		GTA/GTB	AMBT 304/	AMBT 310/
Cap	KVA	250	404/504	410/510
Load	A	0.2	0.4	1.0
		0.8	1.6	4.0
Model		(iv)	(v)	(vi)
		AMBT 330/	AMBT 340/	AMBT 350/
Cap	KVA	430/530	440/540	450/550
Load	A	3	4	5
		12	16	20

G : Machinery of Motive Power

2. **Manufacturer/Supplier** : M/s Gargya Research Instruments,
A-25, Rajouri Garden, Najafgarh Road,
New Delhi - 110 027.

		(i)	(ii)	(iii)
Model		GSS	GSTB	GSTU
Cap At 240 V	KVA	0.72 to 24	2.16 to 72	2.16 to 72
At 415 V	KVA	30 to 180	108 to 540	108 to 540
Phases		Single	Three	Three
Air Cooled Rated Load A		3 to 100	3 to 100	3 to 100
Oil Cooled Rated Load A		125 to 750	150 to 750	150 to 750

(b) Isolation Transformer

Manufacturer/Supplier : M/s Gargya Research Instruments,
A-25, Rajouri Garden, Najafgarh Road,
New Delhi - 110 027.

Blueline Isolation Transformer

Cap		: Available up to 100 KVA
Input	V	: 230 Single Phase, 440 Three Phase
Output	V	: 230 Single Phase, 440 Three Phase

(c) Resistance Boxes (Resistor)

Manufacturer/Supplier : M/s Electromag,
Unique Industrial Estate,
Off Veer Savarkar Marg, Post Box 9141, Prabhadevi,
Mumbai - 400 025.

		(i)	(ii)	(iii)
Cap	KV	Stainless Steel Type Resistor	Punched Steel Grid Resistor	Earthing Resistor 25/33
		-	-	

(d) 4 Digit Electronic Preset Counter

Manufacturer/Supplier : M/s Gauging Techniques,
37, I Block, Jayanagar,
Bangalore - 560 011.

Zero Speed Switch

Model - SSC 202

Type of Pick up		: Inductive Proximity Sensor
Sensing Distance of		
Pick up max	mm	: 10
Operating Voltage	V	: 220 AC
Size of pick up	m	: 30 X 70
Speed Range	rpm	: 0 to 5000
Relay Contracts		: 2 C/o
Rating Contracts		: 5 A at 200 V AC

Model PC 305

Supply	V	: 230 AC
Power Consumption	VA	: 10
Display		: 7 Segment Led Display 12 mm High

G : Machinery of Motive Power

Input Type : Potential Free Contact of Limit Switch
 Micro Switch or from Proximity Switch
 Frequency Max khz : 2
 Reset : Power 'On' Reset or by Push Button
 Size W x H x D mm : 185 x 90 x 160

Model - PC 306

Supply V : 230 AC
 Power Consumption VA : 10
 Pre-Setting : By Thumbwheel Switches
 Display : 7 Segment Led Display 12 mm High
 Input Type : Potential Free Contact of Limit Switch
 Microswitch or from Proximity Switch
 Frequency Max khz : 2
 Relay : 1 NO + 1 NC Rated at 6A 230 V
 Reset : Power 'On' Reset or by Push Button
 Size W x H x D mm : 185 x 90 x 160

(e) Proximity Sensors

Manufacturer/Supplier : M/s Gauging Techniques,
 37, I Block, Jayanagar,
 Bangalore - 560 011.

(i) 3 Wire DC Inductive Proximity Sensors in Cylindrical Housing Dia of Sensor : 12 mm to 50 mm Max Current Cap : 50 MA to 200 MA Supply Voltage : 5 to 30 V	(ii) 3 Wire Inductive Slot Sensors Air Gap : 5 to 20 Max Current Cap : 50 MA to 200 MA Supply Voltage : 5 to 30 V	(iii) DC Multiple Inductive Proximity Switches No of Sensors in One Block : 2,3,4 & 5 Pitch : 12 mm & 16 mm Supply Voltage : 5-30 DC Current Cap of Each Sensor : 200 MA max
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(f) Electro Magnetic Brakes

1. Manufacturer/Supplier : M/s Electromag,
 Unique Industrial Estate, Off Veer Savarkar Marg,
 Post Box 9141, Prabhadevi,
 Mumbai - 400 025.

Type : EM 801 LTOB	(i)	EM 801 EMB	(ii)	EM 801 DCB	(iii)
Drum Dia mm : 100 to 375		100 to 375		100 to 375	
Motor HP at 100 rpm : 2.5 to 80		2.5 to 80		2.5 to 80	
Type : EM 801 3 PM	(iv)	EM 801 AISE	(v)	EM 801 SMR	(vi)
Drum Dia mm : 100 to 375		100 to 375		100 to 375	
Motor HP at 100 rpm : 2.5 to 80		2.5 to 80		2.5 to 80	
Three Phase					

(g) Phase Sequence Indicator

1. Manufacturer/Supplier : M/s Oriental Science Apparatus Workshops,
 Jawaharlal Nehru Marg,
 Off. Veer Savarkar Marg,
 Ambala Cantt. - 133 001.

G : Machinery of Motive Power

Voltage Rated V : 100-500
Frequency Rated hz : 40- 60
WT kg : 0.325

(h) Shunt Reactor

Manufacturer/Supplier : M/s Transformers and Electricals Kerala Ltd.,
Angamally South P. O., Kerala

Capacity : 50
Rating kg : Upto 400

(i) Isolated Phase Bus

Manufacturer/Supplier : M/s Transformers and Electricals Kerala Ltd.,
Angamally South P. O., Kerala

Capacity hz : Upto 24
Rating : 20 KV suitable for 500 MW Generator Sets

(j) Oil Impregnated Paper Condenser Bushing

Manufacturer/Supplier : M/s Transformers and Electricals Kerala Ltd.,
Angamally South P. O., Kerala.

Current A : Upto 12500
Rating KV : Upto 420

(k) On Load Tap Changing Gear for Transformers

Manufacturer/Supplier : M/s Transformers and Electricals Kerala Ltd.,
Angamally South P. O., Kerala.

Cap KV : Upto 400
Current A : Upto 2000, Step Voltage upto 3000 V

(l) Switch Fuse Unit

Manufacturer : M/s Flameproof Control Gears, Supplier : M/s Gaurav Agencies,
Dhanraj Industrial Estate, 18, Ismail Building,
Sitaram Jadhav Road, 381, Dr. D. N. Road,
Lower Parel (West), Opp. Flora Fountain,
Mumbai - 400 013. Mumbai - 400 023.

Rating : (i) Flameproof Switch Fuse Unit
Double Pole and Triple Pole
16, 25, 40, 63 & 100 A at 500 V (ii) Flameproof Weatherproof Switch Unit
Triple Pole
100, 250, 400, 600, & 800 A at 500 V

(m) Thyristor

Manufacturer/Supplier : M/s Alpha Electric & Engineering Co. (P) Ltd.,
13-15 Navprabhat Chambers,
1st Floor, Ranade Road, Dadar,
Mumbai - 400 028.

G : Machinery of Motive Power

Alpha Thyristor Based D C Drives

Voltage V : Upto 500
Cap KW : 500

(n) Instant Security Light for 3 to 4 Hours

Manufacturer/Supplier : M/s BlueLine Marketing Pvt. Ltd.,
A-25, Rajouri Garden,
Najafgarh Road,
New Delhi - 110 027.

BlueLine Instant Security Light

Model	:	(i) GEP 101 Vertical	(ii) GEP 102 B Horizontal
Running Time	:	3 to 4 Hrs.	3 to 4 Hrs.
Battery	V	6	6
Tube Light Size	cm	30	60
Model	:	(iii) GEP 102 P Detachable	(iv) GEP 104 P Detachable
Running Time	:	3 to 4 Hrs.	3 to 4 Hrs.
Battery	V	6	12
Tube Light Size	cm	60	120

(o) Electric Relay Tester

Manufacturer/Supplier : M/s K. S. Associates Pvt. Ltd.,
16, Kohinoor Building,
105, Park Street,
Calcutta - 700 016.

Model : ERT-1
Supply Voltage : 230 V AC
Voltage Range : 0 to 600 V AC, 0 to 60 V AC/DC
Current Range A : 0 to 100 AC
Time Intervals : 10/100 Milli Sec
Variable Voltage Transformer : 49A CAP - Connected to Suitable for Selection of PT/CT Relays
Terminals : HT/LT/NO/NC/Earth

GII (17) Cable Accesories

(a) Cable Fault Locator

Manufacturer/Supplier : M/s K. S. Associates Pvt. Ltd.,
16, Kohinoor Building, 105, Park Street,
Calcutta - 700 016.

Model : CFL-1
Power Unit : 230 V AC Single Phase, Fitted with 0-10 A meter
Probe Unit : 0-1 MA Meter,
Battery : Pencil Batteries - 4 X 1.5 V Each Dry Cells

(b) Cable Terminations/Sealing Ends

1. Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

G : Machinery of Motive Power

Tropolin Indoor End Terminations for Tropodur PVC Cables

Type	:	(i) TEA 1	(ii) TEA 3	(iii) TEA 6	(iv) TXY 11
Cap	KV :	1.1	3.3	6.6	11 for Paper Insulated Cables
Type	:	(v) TXY (SY)	(vi) TEA 11 (MP)	(vii) TXY 11 (SP)	
Cap	KV :	1.1 to 11	11	11 for Paper Insulated Cables	

Push on Terminations for Tropothen-X (XLPE) Multicore Cables

Type	:	(i) TAES 11 (MX)	(ii) TAES 22 (MX)	(iii) TAES 33 (MX)
Cap	KV :	11	22	33

Cast Iron Terminations for Multicore Paper Insulated Cables

Type	:	K 11 (MP)
Cap	KV :	11

Tropolin Outdoor End Terminations for Tropodur Cables

Type	:	(i) TEA-1 (MY) R	(ii) TEA 3 (MY) R	(iii) TEA 6 (MY) R
Cap	KV :	1.1	3.3	6.6
Cable	:	Multicore	Multicore	Multicore
Type	:	(iv) Txy 11 (MY) R	(v) Txy (SY) R	
Cap	KV :	6.6 & 11	1.1 to 11	
Cable	:	Multicore Screened	Single Core	

Tropolin Outdoor End Terminations for Tropothen-X (XLPE) Cables

Type	:	(i) Txy 11 (MX) R	(ii) Txy 11 (SX) R
Cap	KV :	11	11
Cable	:	Multicore	Multicore

Push on Terminations

Type	:	(i) TAES 11 (MX) R	(ii) TAES 22 (MX) R
Cap	KV :	11	22
Cable	:	Multicore	Multicore

Outdoor End Terminations for Paper Insulated (PVC) Cables Tropolin Terminations

Type	:	(i) TEC 11 (MP) R	(ii) TXY 11 (SP) R
Cap	KV :	11	11
Cable	:	Multicore	Singlecore

Straight Through Joints for Tropodur (PVC) Cables Tropolin Joints

Type	:	(i) SL (MY)	(ii) SL (SY)	(iii) PV 11 (MY)	(iv) PV 11 (SY)
Cap	KV :	1.1 to 6.6	1.1 to 6.6	6.6 & 11	6.6 & 11
Cable	:	Multicore	Singlecore	Multicore	Singlecore

G : Machinery of Motive Power

Straight Through Joints for Tropothen-X (XLPE) Cables Tropolin Joints

Type		(i)	(ii)	(iii)
Cap	KV	WP (MX)	WP (SX)	UMP (MXP)
Cable		6.6 to 35	6.6 to 33	11 to 33
		Multicore	Singlecore	Multicore

Porcelain Sealing Ends

		(i)	(ii)	(iii)	
		Porcelain Sealing Ends with Cast Iron Spreader for Paper Insulated Cables	Porcelain Sealing Ends with Cast Iron Trifurcating Box fo Paper Insulated Cables	Porcelain Sealing Ends for Paper Insulated Cables Single Core	
Type		FEN 30 (MP)	FEN 30 (MP)	FEN 30 (SP)	
Cap	KV	22 & 33	22 & 33	22 & 33	
Type		(iv)	(v)	(vi)	(vii)
Cap	KV	FEN 30(MX)R	FEN 30(MP)R	FEN 30(SX)R	FEN 30 (MP)R
Cables		22 & 33	22 & 33	22 & 33	22 & 33
		Multicore	Multicore	Single Core	Multicore

2. Manufacturer : M/s XICON International Pvt. Ltd., Shiv Sagar Estate, 'D' Basement, Dr. Annie Besant Road, Mumbai - 400 018. Supplier : M/s Cable Corpn. of India Poonam Chambers, North Wing, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai - 400 018.

Heat Shrink Termination for 3 Core, XLPE Insulated Cable Cap KV : 6.6 to 33

(c) Cable Repairing Machine

Manufacturer/Supplier : M/s Chanda & Co. (Engg.) Pvt. Ltd., 3/18, Mahendra Road, Calcutta - 700 025.

Cable Dia mm : Up to 75
Operated on V : 220/230 AC

(d) Cable Glands & Cable Reels

Manufacturer	: M/s Electromag Industries, 27/28 A, New Empire Industrial Estate, 1st Floor, G. B. Nagar, Dondivitta Road, Andheri East, Mumbai - 400 059.	Supplier	: M/s Gaurav Agencies, 18, Ismail Building, 381, D. N. Road, Op. Flora Fountain, Mumbai - 400 023.
Cable Glands	Cable Glands	Cable Reels	
Electromag Glands Single/Double Seal Cone Grip Type Cable Glands for flexible cable only	Electromag Flameproof Glands Double Seal Cone Grip Type Glands for flexible cable only	Torque Regulator Powered Motorised	
Cable Dia mm : 12 to 94	Cable Dia mm : 12 to 76	Cable Length m : 30 to 1000 Voltage V : Upto 11000	

G : Machinery of Motive Power

(e) Cable Joints

Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

Tropolin Joints

Type	:	(i) SL 11 (MP)	(ii) PV 11 (MP)
Cap	:	11	11
Cable	:	Three Core	Three Core

Cast Iron Box Joints

Type	:	(i) SM 1500 (H) (MP)	(ii) SM 1500 (HSL) (MP)
Cap	:	22 & 33	22 & 33
Cable	:	Three Core	Three Core

Tee Joints for Tropodur (PVC) Cable

Type	:	(i) TA (MY)	(ii) TA (MP)
Cap	:	1.1	1.1
Cable	:	Multicore	Multicore

(f) Jointing Materials

Manufacturer/Supplier : M/s Cable Corporation of India,
Poonam Chambers, North Wing,
Shivsagar Estate, Dr. Annie Besant Road, Worli,
Mumbai - 400 018.

Cable Lugs, Jointing Sleeves, Single Compression Brass Glands, Solder Fluxes, Impregnated Paper Tapes, Insulating Compounds, Non-Magnetic Trefoil Clamps, Composite Tool Box, Compression Jointing Tools, Scraper Tool

(g) Cable Repair Vulcanizer

Manufacturer/Supplier : M/s EMAR India Private Ltd.,
135, Biplabi Rashbehari Bosu Road,
(135, Canning Street),
Calcutta - 1

Mechanical Cable Repair Vulcanizer

Cable Size mm : 75
Operated at : 220/230 V AC With Maximum Current 3.5 KW

(h) Conductors

Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.

		(i)	(ii)	(iii)
		Aluminium	Aluminium	Conductors for
		Conductors for	Conductors for	PVC Insulated Heavy duty
		XLPE Insulated	XLPE PILC Cables	Cables (Copper and
		Cables		Aluminium)
Area	sq mm	: 25 to 1000	16 to 1000	1.5 to 1000

G : Machinery of Motive Power

(i) Capacitors

1. Manufacturer/Supplier : M/s Asian Cables Corporation Ltd.,
Ceat Mahal, 463, Dr. Annie Besant Road, Worli,
Mumbai - 400 025.
- Area sq mm : Equivalent Star Capacitance for XLPE Insulated Cable
25 to 1000
- Cap KV : 3.8 to 33
Also for 3.3 KV Cap for Single Core unarmoured Metallic Shielded Cables
2. Manufacturer/Supplier : M/s Universal Cables Ltd.,
Satna (M.P.)
- Capacitors for A. C. System for Single Phase AC Motors
Paper Capacitors with Polychlor Dielectric as Per IS - 2993

G III INTERNAL COMBUSTION ENGINES

G III (1) Diesel Engines

1. Manufacturer/Supplier : M/s HMP Engineers Limited,
HMP House, 4 Fairlie Place,
Calcutta - 700 001.
- | | | | |
|-------------------------|----------|--------|----------|
| | (i) | (ii) | (iii) |
| Model | VW-2 | VA-2 | VW-3 |
| KW (BHP) | 3.7(5) | 3.7(5) | 4.8(6.5) |
| Speed rpm | 1500 | 1500 | 1500 |
| Fuel Consumption(G/kwh) | 243 | 252 | 240 |
| WT kg | 220 | 255 | 220 |
| | (iv) | (v) | (vi) |
| Model | VA-3 | VW-51 | VW-5 |
| KW (BHP) | 4.5(6.5) | 5.9(8) | 5.9(8) |
| Speed rpm | 1500 | 1500 | 1500 |
| Fuel Consumption(G/kwh) | 251.5 | 237 | 237 |
| WT kg | 255 | 240 | 250 |
| | (vii) | (viii) | (ix) |
| Model | VW-4 | VA-5 | VW-6 |
| KW (BHP) | 5.9(8) | 5.9(8) | 7.35(10) |
| Speed rpm | 1800 | 1500 | 1800 |
| Fuel Consumption(G/kwh) | 251 | 252 | 251.75 |
| WT kg | 255 | 260 | 260 |
2. Manufacturer/Supplier : M/s Ashok Leyland Ltd.,
480, Anna Salai, Nandanam,
Chennai - 600 035.
- | | | | |
|-----------------|------------------|------------------|------------------|
| | (i) | (ii) | (iii) |
| Model | ALU 370 | ALU 400 | ALU 402 |
| Type | Direct Injection | Direct Injection | Direct injection |
| BHP | 95 | 107.5 | 121.5 |
| Speed rpm | 2200 | 2000 | 2400 |
| No. of Cylinder | 6 | 6 | 6 |
| No. of Strokes | 4 | 4 | 4 |

G : Machinery of Motive Power

Model	:	(iv)		(v)
Type	:	ALU 411		ALU 680
BHP	:	Direct Injection Turbo Charge		Direct Injection
Speed	rpm	132		156
No. of Cylinder	:	2200		2000
No. of Strokes	:	6		6
	:	4		4
3. Manufacturer/Supplier : M/s Kirloskar Cummins Ltd.,				
Kothrud,				
Pune - 411 029.				
Model		(i)	(ii)	(iii)
HP at 2500	rpm	4 B 3.9	4 BT 3.9	6 B 5.9
Speed	rpm	76	100	115
	rpm	1200	1500	1500
Model		(iv)	(v)	(vi)
HP at 2500	rpm	4 BTA 3.9	6 BT 5.9	6 BTA 5.9
Speed	rpm	116	152	177
	rpm	1500	1500	1500
Model		(vii)	(viii)	(ix)
HP at 2100	rpm	NT 495-180	N 743-C-220	NTA 495-C-212
Speed	rpm	180	212	212
	rpm	1450	1500	1500
Model		(x)	(xi)	(xii)
HP at 2100	rpm	N-743T-C-240	N 855-C-250	NT-743-C-295
Speed	rpm	240	240	295
	rpm	1500	1500	1500
Model		(xiii)	(xiv)	(xv)
HP at 2100	rpm	NT 855-C-310	NTA-743-C-335	NT 855-C-335
Speed	rpm	310	335	335
	rpm	1500	1500	1500
Model		(xvi)	(xvii)	(xviii)
HP at 2100	rpm	NTA-855-C-380	NTA-855-C-400	V1710-C-500
Speed	rpm	380	400	480
	rpm	1500	1500	1600 *
Model		(xix)	(xx)	(xxi)
HP at 2100	rpm	KT 1150-C-450	KTA 1150-C-525	KTA 1150-C-600
Speed	rpm	450	525	600
	rpm	1500	1500	1500
Model		(xxii)	(xxiii)	(xxiv)
HP at 2100	rpm	VT-1710-C-635	VTA-1710-C-800	KT 2300-C-900
Speed	rpm	635	800	900
	rpm	1500	1500	1500
Model		(xxv)	(xxvi)	(xxvii)
HP at 2500	rpm	KTa 2300-C-1050	KTA 2300-C-1200	KTA 3067-C-1600
Speed	rpm	1050	1200	1600
	rpm	1500	1500	1500

G : Machinery of Motive Power

4. Manufacturer/Supplier : M/s SIGIL (INDIA) Services Pvt. Ltd.,
Oricon House, 12/14, R Dubash Marg,
P. O. Box 952,
Mumbai - 400 023.

		(i)	(ii)	(iii)
Model	:	UD 1	AVTA	LP 1
Type	:	Vertical Cold Start	Vertical Cold Start	Vertical Cold Start
BHP	AT 1500 rpm	5	5	6
	AT 1800 rpm	-	6	-
	AT 2000 rpm	-	-	-
No. of Cylinders	:	-	1	-
No. of Strokes	:	4	4	4
		(iv)	(v)	(vi)
Model	:	RHW 1	PH 1	RP 1
Type	:	Vertical Cold Start	Vertical Cold Start	Vertical Cold Start
BHP	AT 1500 rpm	6.25	6.25	6.5
	AT 1800 rpm	7.5	7.5	7.8
	AT 2000 rpm	-	-	8.6
No. of Cylinders	:	2	1	1
No. of Strokes	:	4	4	4
		(vii)	(viii)	(ix)
Model	:	VMI	JAF 1	AV 2A
Type	:	Vertical Cold Start	Vertical Cold Start	Vertical Cold Start
BHP	AT 1500 rpm	-	8	10
	AT 1800 rpm	-	9.5	12
	AT 2000 rpm	-	10.6	13.4
No. of Cylinders	:	-	1	2
No. of Strokes	:	4	4	4
		(x)	(xi)	(xii)
Model	:	PH 2	PHW 2	JAF 2
Type	:	Vertical Cold Start	Vertical Cold Start	Vertical Cold Start
BHP	AT 1500 rpm	12.5	12.5	16.0
	AT 1800 rpm	15.0	15.0	19.0
	AT 2000 rpm	-	-	21.2
No. of Cylinders	:	2	2	2
No. of Strokes	:	4	4	4

5. Manufacturer/Supplier : M/s GMMCO Limited,
1st Floor, Mahalaxmi Chambers,
29, M. G. Road, Bangalore - 560 001.

		(i)	(ii)	(iii)	(iv)	(v)
Model	:	3306 BT	3306 BTA	3406 BT	3406 BTA	3412 T
HP At 1500	rpm	218 - 246	272 - 306	358	393 - 452	544
KVA	:	180 - 200	225 - 250	275	320 - 380	455
No. of Cylinders	:	1L - 6	1L - 6	1L - 6	1L - 6	V - 12
		(vi)	(vii)	(viii)	(ix)	(x)
Model	:	3412 TT	3412 TA	3508	3512	3516
HP At 1500	rpm	590	703	1078	1159 - 1458	1749 - 2219
KVA	:	500	590	910	1000 - 1250	1500 - 1944
No. of Cylinders	:	V - 12	V - 12	-	-	-

G : Machinery of Motive Power

G III (2) Accessories of Internal Combustion Engines

1. Manufacturer/Supplier : M/s IEC Dusterloh Pvt. Ltd.,
603, Sadashiv Peth,
Laxmi Road, Pune - 411 030.
- | | (i) | (ii) |
|--------------------------------------|-------------|-------------|
| Type | IDLA-2.5V | IDLA - 15 |
| Air Pressure kg/cm ² | 8 | 10 |
| RPM | 1500 - 2000 | 1500 - 2000 |
| HP | 14.4 - 17.8 | 55 - 60 |
| KW | 10.9 - 13.5 | 41 - 44.5 |
| Air Consumption NM ³ /min | 11 - 13.5 | 35 - 42 |
| Nominal Torque kg-m | 7 - 6.8 | 27 - 22.5 |
| Starting Torque kg-m | 8.1 | 33 - 33 |
2. Manufacturer/Supplier : M/s Steel Gate Piston Rings Industries,
14, Kutchery Road, P. O. Box No. 94, Balu Ganj,
Agra 282 001.
- Grooved Oil Cutter Ring, Conformable Oil Ring,
Grooved and Drilled Ring, Seal Piston Ring, Step Seal Ring

G IV STEAM MACHINERY

G IV (1) Boilers & Accessories

(a) Package Boilers

Capacity tph : Up to 10

Manufacturer/Supplier : M/s I.A.E.C. India Ltd.,
196, L.B.S. Marg, Bhandup
Mumbai - 400 078.

	(i)	(ii)	(iii)
Model	HN/HW 10	HN/HW 15	HN/HW 20
Cap	tph : 1	1.5	2
Size	m : 5.2x2.3x2.0	5.5x2.35x2.05	6.0x2.4x2.1
Total Connected			
Load	KW : 15	15	15
WT	t : 8	8.7	9.5

	(iv)	(v)	(vi)
Model	HN/HW 25	HN/HW 30	HN/HW 40
Cap	tph : 2.5	3	4
Size	m : 6.3x2.45x2.15	6.5x2.85x2.6	6.7x2.95x2.77
Total Connected			
Load	KW : 15	20	35
WT	t : 10.5	18	22

	(vii)	(viii)	(ix)	(x)
Model	HN/HW 50	HN/HW 60	HN/HW 80	HN/HW 100
Cap	tph : 5	6	8	10
Size	m : 7.25x3.0x2.82	7.75x3.15x3.02	8.65x3.25x3.12	9.0x3.6x3.32
Total Connected				
Load	KW : 36	36	53	65
WT	t : 24	25.2	33.5	37.5

G : Machinery of Motive Power

Capacity	tph	:	11 to 20				
Manufacturer/Supplier	:	M/s I.A.E.C. India Ltd., 196, L.B.S. Marg, Bhandup Mumbai - 400 078.					
Model	:	(i)	(ii)	(iii)			
Cap	:	HN/HW 120	HN/HW 140	HN/HW 160			
Size	tph	12	14	16			
	m	9.65x3.65x3.47	8.75x4.0x3.6	8.75x4.1x3.8			
Total Connected							
Load	KW	65	75	90			
WT	t	45	50	54			
Model	:	(iv)	(v)				
Cap	:	HN/HW 180	HN/HW 200				
Size	tph	18	20				
	m	9.0x4.2x4.0	9.0x4.3x4.0				
Total Connected							
Load	KW	90	130				
WT	t	56	60				
Capacity	tph	:	21 to 50				
Manufacturer/Supplier	:	M/s I.A.E.C. India Ltd., 196, L.B.S. Marg, Bhandup Mumbai - 400 078.					
Model	:	(i)	(ii)	(iii)			
Cap	:	HN/HW 220	HN/HW 250	HN/HW 280			
Size	tph	22	25	28			
	m	9.15x4.4x4.1	9.3x4.55x4.2	9.5x4.7x4.3			
Total Connected							
Load	KW	127.5	130	135			
WT	t	63	67	70			
Model	:	(iv)	(v)	(vi)	(vii)		
Cap	:	HN/HW 300	HN/HW 320	HN/HW 360	HN/HW 400		
Size	tph	30	32	36	40		
	m	10.4x4.8x4.4	10.1x4.8x4.4	10.6x5.0x4.6	10.7x5.1x4.7		
Total Connected							
Load	KW	150	171	182	193		
WT	t	73	74	76	80		
(b) Supertherm Steam Boilers							
Manufacturer/Supplier	:	M/s I.A.E.C. Boilers Pvt. Ltd., I.A.E.C.House, 78, Anna Salai, Chennai - 600 002.					
Model	:	(i)	(ii)	(iii)	(iv)		
Cap	:	STO 10	STO 15	STO 20	STO 25		
Dimensions	kg/hr	1000	1500	2000	2500		
	m	5.15x2.25x1.95	5.45x2.3x2.0	5.95x2.35x2.05	5.25x2.4x2.1		
Total Connected							
Load	KW	15	15	18	20		
WT	t	8	8.7	9.5	10.5		

G : Machinery of Motive Power

		(v)	(vi)	(vii)	(viii)
Model	:	STO 30	STO 40	STO 50	STO 60
Cap	kg/hr	3000	4000	5000	6000
Dimensions	m	6.45x2.80x2.55	6.65x2.90x2.72	7.20x2.95x2.77	7.70x3.10x2.97
Total Connected					
Load	KW	22	32	32	36
WT	t	18	22	24	25.2
		(ix)	(x)	(xi)	
Model	:	STO 80	STO 100	STO 120	
Cap	kg/hr	8000	10000	12000	
Dimensions	m	8.50x3.20x3.07	8.95x3.55x3.27	9.60x3.60x3.42	
Total Connected					
Load	KW	45	55	67	
WT	t	33.5	37.5	45	

(c) 2 Pass, Dry Back Coal-Fired Package Boilers

Manufacturer	:	M/s Laxmi Boilers, 22-A, Dr. Anandrao Nair Rd, Mumbai - 400 011	Supplier	:	M/S Battiboi & Co. Ltd., Apeejay House, 6th Floor, Dr. V. B. Gandhi Marg, Mumbai - 400 023
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		(i)	(ii)	(iii)
Model	:	LC-1	LC-2	LC-3
Evaporation	kg/hr	500	750	1000
Heating Surface	sq m	20.0	30.5	41.0
Dimensions	m	4.0x3.6x2.5	4.5x3.6x2.6	6.0x3.7x2.6
Electric Data				
F D Fan	KW	0.74	0.74	1.12
I D Fan	KW	1.49	1.49	2.24
Water Pump	KW	3.72	5.6	5.6
WT	t	9.50	12.0	15.0
		(iv)	(v)	(vi)
Model	:	LC-4	LC-5	LC-6
Evaporation	kg/hr	1500	2000	2500
Heating Surface	sq m	55.7	74.3	93.0
Dimensions	m	5.2x3.9x3.2	6.5x4.5x3.5	6.71x4.60x3.20
Electric Data				
F D Fan	KW	1.49	2.24	3.73
I D Fan	KW	3.73	5.58	5.58
Water Pump	KW	5.6	11.2	11.2
WT	t	18.0	21.60	24.00
		(vii)	(viii)	(ix)
Model	:	LC-7	LC-8	LC-9
Evaporation	kg/hr	3000	4000	5000
Heating Surface	sq m	111.5	148.7	186.0
Dimensions	m	7.00x5.30x4.45	7.80x5.50x4.75	8.0x6.0x5.2
Electric Data				
F D Fan	KW	3.73	5.58	7.45
I D Fan	KW	7.45	9.32	11.2
Water Pump	KW	11.2	11.2	11.2
WT	t	26.40	30	33.60

G : Machinery of Motive Power

(d) Boilers (Loco Type)

Manufacturer : M/s Laxmi Boilers, 22-A, Dr. Anandrao Nair Rd, Mumbai - 400 011
 Supplier : M/S Batliboi & Co. Ltd., Apeejay House, 6th Floor, Dr. V. B. Gandhi Marg, Mumbai - 400 023

Model	:	(i) HHL MINI	(ii) HHL-1	(iii) HHL-2	(iv) HHL-3
Heating Surface	sq m	: 28	46.50	70	93
Dimensions	m	: 4.3x1.4x1.8	4.3x1.4x1.8	7x1.5x2	7x1.5x2
WT Dry	t	: 5	7	10	13
Model	:	(v) HHL-4	(vi) HHL-5	(vii) HHL-6	(viii) HHL-7
Heating Surface	sq m	: 140	186	232	280
Dimensions	m	: 7x2.2x2.6	7x2.4x2.9	7x2.4x2.9	7x2.8x3.2
WT Dry	t	: 15	19	22	25

Boilers

Manufacturer/Supplier : M/s Laxmi Boilers, 22-A, Dr. Anandrao Nair Rd. Mumbai - 400 011

Model	:	(i) LB-1	(ii) LB-2	(iii) LB-3	
Coal Fired					
Evaporation	kg/hr	: 27	36	45	
Coal Consumption	kg/hr	: 3	5	10	
Standard Working pr					
kg/sq cm		: 5.2	5.2	5.2	
Model	:	(iv) LB-4	(v) LB-5	(vi) LB-6	
Oil Fired					
Evaporation	kg/hr	: 90	136	182	
Oil Consumption	Lit/hr	: 7	11	15	
Coal Fired					
Evaporation	kg/hr	: 68	102	136	
Coal Consumption	kg/hr	: 11	16	22	
Heating Surface					
Stream Generation					
Portion	sq m	: 1.15	1.27	1.65	
Water Feeder					
Portion	sq m	: 2.3	4	7	
Steam Exhauster	sq m	: -	-	1.45	
WT of Steam					
Generator	kg	: 330	440	630	
Model	:	(vii) LB-7	(viii) LB-8	(ix) LB-9	(x) LB-9S
Oil Fired					
Evaporation	kg/hr	: 272	454	568	681
Oil Consumption	Lit/hr	: 24	39	49	59
Coal Fired					
Evaporation	kg/hr	: 204	341	398	500
Coal Consumption	kg/hr	: 34	54	65	80

G : Machinery of Motive Power

Heating Surface					
Stream Generation					
Portion	sq m	: 1.85	2.0	2.0	2.0
Water Feeder					
Portion	sq m	: 11	13.7	19	21.8
Steam Exhauster	sq m	: 2.2	3.1	4.8	5.4
WT of Steam					
Generator	kg	: 850	1130	1400	1500

(e) Fully Automatic Packaged Electrode Steam Boilers

Manufacturer/Supplier : M/s Laxmi Boilers,
22-A, Dr. Anandrao Nair Rd.
Mumbai - 400 011

Model			(i)	(ii)	(iii)
Evaporation	kg/hr	: 55	JR-1	JR-2	JR-3
Electric Load					
(Approx)	kwh	: 35		70	105
Heat Output					
(x 10 ³ K.cal.hr)		: 30		60	90
Standard Working PR					
	kg/sq cm	: 7.031	7.031	7.031	7.031
Model			(iv)	(v)	(vi)
Evaporation	kg/hr	: 220	JR-2+JR-2	JR-2+JR-3	JR-3+JR-3
Electric Load				Batteries	
(Approx)	kwh	: 140		275	330
Heat Output					
(x 10 ³ K.cal.hr)		: 120	150	180	
Standard Working PR					
	kg/sq cm	: 7.031	7.031	7.031	

(f) Accessories of Steam Machinery

Manufacturer/Supplier : M/s I.A.E.C. Mumbai Ltd.,
196, L. B. Shastri Marg, Bhandup,
Mumbai - 400 078.

			Bopp & Reuther "EKN" Butterfly Valve	Gestra Rapid Action Blow Down Valve	Vaihinger Ultra-VOX Liquid Level Limiter/ Alarmer	Vaihinger Ultra-VOX Liquid Level Limiter/ Alarmer
Type		: -		PA-16	32/101	32/111
PR	kg/sq cm	: 4 to 25		2.24 to 2.8	24 to 32	13 & 16
Size	mm	: 150 to 1800		-	-	-
Operating Temp		: -		-	Up to 300°C	-