

M : Ore Preparation Machinery

M I CRUSHERS

M I (I) Jaw Crushers

Capacity tph : 0 to 10

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001

		(i)	(ii)	(iii)
Model	:	JC 126	JC 147	JC 169
Cap	tph	3 to 6	6 to 8	8 to 10
Motor power	HP	10	15	20
Speed	rpm	300	300	290
Wt approx	kg	1750	2000	3500
Size mouth	mm	300 x 150	350 x 175	400 x 225
Opening jaw set	mm	20 to 65	25 to 65	30 to 70
Size feed	mm	200 x 100	250 x 125	300 x 175

2. Manufacturer/Supplier : M/s Kusum Engineering Co. Ltd.,
25, Swallow Lane,
Calcutta - 700 001

		(i)	(ii)	(iii)	(iv)	(v)
Model	:	JC 63	JC 94	JC 126	JC 147	JC 169
Cap	tph	0.2 to 0.3	1 to 2	3 to 5	6 to 8	8 to 10
Motor power	HP	2	7.5	15	15	30
Speed	rpm	250	250	250	300	250
Wt approx	kg	500	1000	2000	1750	5000
Size mouth	mm	152 x 76	230 x 100	305 x 152	350 x 175	406 x 230
Opening jaw set	mm	12	25	65	65	65
Flywheel size pulley	mm	518 x 76	711 x 112	762 x 127	750 x 125	915 x 190

3. Manufacturer/Supplier : M/s Ushamil Pvt. Ltd.,
37-38, Community Centre, East of Kailash,
New Delhi - 110 065.

		(i)	(ii)
Cap	tph	8 to 10	upto 10
Power	kW	11	15
Speed	rpm	390	390
Wt approx	kg	1450	2025
Jaw set opening	mm	20 to 50	20 to 50

Capacity tph : 10.1 to 50

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001

M : Ore Preparation Machinery

Model		(i)	(ii)	(iii)	(iv)	(v)	(vi)
Type		JC 169	JC 2010	JC 2414	JC 3220	JC 2414	JC 3220
Type		Stationary	Stationary		Single Toggle	30 to 45	
Cap	tph	10.1 to 15.0	15.0 to 25.0	25 to 40	40	30 to 45	40 to 50
Motor power	HP	20	30	40	40	40	40
Crusher speed	rpm			270	250	270	250
Wt approx	kg	3500	4500	6000	13500	10000	18000
Mouth size	mm	400 x 225	500 x 250	600 x 350	800 x 500	600 x 350	800 x 500
Jaw set opening	mm	30 to 70	40 to 80	50 to 100	70 to 140	40 to 80	70 to 140
Size feed	mm	300 x 175	400 x 200	500 x 300	700 x 450	500 x 300	700 x 450

2. Manufacturer/Supplier : M/s Ushamil Pvt. Ltd.,
37-38, Community Centre, East of Kailash,
New Delhi - 110 065.

		(i)	(ii)	(iii)	(iv)	(v)	(vi)
Cap	tph	10.1 to 18	10.1 to 30	18 to 40	22 to 50	22 to 50	40 to 50
Power	kW	11	15	18	22	22	40
Speed	rpm	390	390	390	370	390	250
Wt approx	kg	1450	2050	3300	6900	3260	18000
Jaw set opening	mm	20 to 50	20 to 50	20 to 50	20 to 75	25 to 75	70 to 140

		(vii)	(viii)	(ix)
Cap	tph	25 to 50	upto 50	36 to 50
Power	kW	22	30	22
Speed	rpm	370	370	370
Wt approx	kg	6860	7425	7740
Jaw set opening	mm	25 to 75	31 to 75	31 to 75

Capacity tph : 50.1 to 100

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshall House, 4th Floor, Room No. 448,
Calcutta - 700 001

Model		(i)	(ii)	(iii)	(iv)
Type		JC 3220	JC 4028	JC 3220	JC 4028
Type		Single Toggle	Single Toggle	Double Toggle	Double Toggle
Type		Stationary	Stationary	Stationary	Stationary
Cap	tph	50.1 to 100	80 to 100	50.1 to 100	80 to 100
Motor power	HP	75	100	75	100
Speed crusher	rpm	250	240	25	240
Wt approx	kg	13500	20000	18000	25000
Mouth size	mm	800 x 500	1000 x 700	800 x 500	1000 x 700
Jaw set opening	mm	70 x 140	80 x 200	70 x 140	80 x 200
Size feed	mm	700 x 450	900 x 650	700 x 450	900 x 650

2. Manufacturer/Supplier : M/s Ushamil Associates Pvt. Ltd.,
37-38, Community Centre, East of Kailash,
New Delhi - 110 065.

		(i)	(ii)	(iii)	(iv)
Cap	tph	50.1 to 67	50.1 to 67	50.1 to 58	50.1 to 90
Power	kW	22	22	22	30

M : Ore Preparation Machinery

Speed	rpm	: 370	370	390	370
Wt approx	kg	: 6900	6750	3260	7740
Jaw set opening	mm	: 20 to 75	31 to 75	25 to 75	25 to 75
		(v)	(vi)	(vii)	(viii)
Cap	tph	: 50.1 to 100	72 to 100	72 to 100	81 to 100
Power	kW	: 30	37	37	45
Speed	rpm	: 370	370	370	362
Wt approx	kg	: 7425	12150	9900	15075
Jaw set opening	mm	: 31 to 87	50 to 75	50 to 75	50 to 75

Capacity tph : Above 100

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001

Model	:	JC 4028
Type	:	Stationary
Cap	tph	: 100.1 to 175
Motor power	HP	: 100
Speed	rpm	: 240
Wt approx	kg	: 25000
Mouth size	mm	: 1000 x 700
Jaw set opening	mm	: 80 x 200
Size feed	mm	: 900 x 650

2. Manufacturer/Supplier : M/s Ushamil Associates Pvt. Ltd.,
37-38, Community Centre, East of Kailash,
New Delhi - 110 065.

Cap	tph	: (i) 100.1 to 112	(ii) 100.1 to 135	(iii) 100.1 to 157	(iv) 100.1 to 270
Power	kW	: 30	37	37	45
Speed	rpm	: 370	370	370	362
Wt approx	kg	: 7425	9900	12150	15025
Jaw set opening	mm	: 31 to 87	50 to 100	50 to 125	50 to 200
		(v)	(vi)	(vii)	(viii)
Cap	tph	: 157 to 270	270 to 540	270 to 630	450 to 900
Power	kW	: 55	93	110	150
Speed	rpm	: 338	300	300	257
Wt approx	kg	: 19125	40410	48600	68850
Jaw set opening	mm	: 87 to 200	100 to 250	100 to 300	150 to 350

Jaw Crusher Double Toggle

Capacity cu m/hr : 500

1. Manufacturer/Supplier : M/s Heavy Engineering Corporation Ltd.,
A Government of India Enterprise,
Ranchi - 834 004.

Cap	cu m/hr	: (i) 42 to 84	(ii) 130	(iii) 220	(iv) 450
Electric motor					
Power	kW	: 75	100	160	250
Eccentric shaft					
speed	rpm	: 275	170	135	100

M : Ore Preparation Machinery

Wt crusher without electric equipment & spares	kg	:	21660	69600	137000	235000
size crusher	mm	:	600 x 900	900 x 1200	1200 x 1500	1500 x 2100
Opening discharge W	mm	:	80 to 160	130	150	180
Size recommended speed max	mm	:	510	700	1000	1200

2. Manufacturer/Supplier : M/s Sayaji Iron and Engineering Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 001, Gujarat.

Type	:	Single or double toggle
Cap	:	Custom built
Size crusher mm	:	300 x 175 to 1500 x 1200

M I (2) Gyratory Crusher

Capacity cu m/hr : Up to 500

1. Manufacturer/Supplier : M/s Heavy Engineering Corporation Ltd.,
A Government of India Enterprise,
Ranchi - 834 004.

			(i)	(ii)	(iii)	(iv)
Type	:		Primary	Primary	Primary	Double toggle
Cap	cu m/hr	:	150	340	500	500
Speed	rpm	:	740	740	590	590
Wt	kg	:	43000	147000	230000	247000
Size Crusher	mm	:	500	900	1200	1200 (With Hidroset)
Opening feed	mm	:	500	900	1200	1200
Size feed max	mm	:	400	750	1000	1000
Nominal discharge set at open side	mm	:	75	130	130	130

Capacity cu m/hr : 500.1 to 1000

1. Manufacturer/Supplier : M/s Heavy Engineering Corporation Ltd.,
A Government of India Enterprise,
Ranchi - 834 004.

			(i)	(ii)	(iii)	(iv)
Type	:		Primary	Primary	Primary	Doubled Toggle
Cap	cu m/hr	:	680,800	680,800	600, 650, 750	600, 650, 750
Speed	rpm	:	590	590	590	590
Wt	kg	:	230000	247000	240000	256000
Size crusher	mm	:	1200	1200 (with Hidroset)	1350 (with Hidroset)	1350 (with Hidroset)
Opening feed	mm	:	1200	1200	1350	1350
Size feed max	mm	:	1000	1000	1150	1150
Nominal discharge set at open side	mm	:	150, 180	150, 180	150,165,180	150,165, 180

Capacity cu m/hr : 1001 to 1500

1. Manufacturer/Supplier : M/s Heavy Engineering Corporation Ltd.,
A Government of India Enterprise,
Ranchi - 834 004.

M : Ore-Preparation Machinery

Type		(i)	(ii)
Cap	cu m/hr	Primary	Primary
Speed	rpm	1150, 1300, 1450	1150, 1300, 1450
Wt	kg	590	590
Size crusher	mm	406000	428000
(with Hidroset)		1500	1500
Opening feed	mm	1500	1500
Size feed max	mm	1300	1300
Nominal discharge set at open side	mm	160, 180, 200	160, 180, 200
2. Manufacturer/Supplier		M/s Sayaji Iron & Engg. Co. Pvt. Ltd. Chhani Road, Baroda - 390 002, Gujarat	
Crusher size	mm	800 x 240 to 1750 x 500	

MI (3) Cone Crushers

Size	mm	Up to 1500
1. Manufacturer/Supplier		M/s Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Road, Baroda - 390 002, Gujarat
Crusher size Dia	mm	500 to 1500

MI (4) Roll Crushers

Capacity tph : Up to 10

1. Manufacturer/Supplier		M/s Durgapur Engineering Co. Ltd., 33/1 Netaji Subhash Road, Marshall House, 4th Floor, Room No. 448, Calcutta - 700 001.
--------------------------	--	--

Model		(i)	(ii)	(iii)	(iv)	(v)
Type		2-RC/68	4-RC/68	2-RC/1612	4-RC/1215	2-RC/1624
Cap	tph	0.05	0.05	0.5	0.5	2
Motor power	HP	3	3	10	15	15
Speed pulley	rpm	100	100	100	100	100
Wt Nett	kg	200	500	1000	2000	2000
Roller dia x face	mm	100x200	150x200	300x375	300x375	400x600
Model		(vi)	(vii)	(viii)	(ix)	(x)
Type		4-RC/1626	SMS-2	SMS-2	SMS-2	SMS-2
Cap	tph	2	2 to 3	4 to 5	5 to 7	10
Motor power	HP	25	10 x 2 Nos.	15 x 2 Nos.	20 x 2 Nos.	30 x 2 Nos.
Speed pulley	rpm	100	-	-	-	-
Wt nett	kg	4500	1500	2000	3000	4000
Roller dia x face	mm	400x600	450x300	600x350	750x400	900x400
2. Manufacturer/Supplier		M/s Kaps Engineers, 831, G.I.D.C., Makarpura, Vadodara - 390 010.	Supplier	M/s Battiboi & Co. Ltd., Apeejay House, 6th Floor, Dr. V.B. Gandhi Marg, Fort, Mumbai - 400 001.		

M : Ore Preparation Machinery

	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Model	PC-1	PC-2	PC-3	DL-175	PC-250	PC-450
Type	Vm Pre	Vm Pre	Vm Pre	Vm Pre	Vm Pre	Vm Pre
Cap	tph/opr : 0.75	2.5	7	0.30	2	5
Motor power	HP : 3	7.5	15	2	7.5	15
Size mix speed	mm : 100	200	300	30	100	200
Range fineness	mm : 3 to 25	3 to 25	3 to 25	3 to 10	3 to 25	3 to 25
Abrasiveness handled	: Medium	Medium	Medium	Medium	Medium	Medium

3. Manufacturer/Supplier : M/s Sur Iron & Steel Co. Ltd.,
15, Convent Road,
Calcutta - 700 014.

	(i)	(ii)	(iii)	(iv)
Type	Roller coal Heavy duty	Roller coal	SISCO rolling	SISCO rolling
Cap	tph : 5	8	10	10
Power	HP : 7.5	10	-	30
BHP				
	Elec		15	
	Diesel		20	
Speed	rpm : -	-	325/350	200/260
Wt	kg : -	-	2525	-
Size opening feed	mm : -	-	406 x 254	-
Size feed max	mm : -	-	-	9.5
Dia pulley	mm : -	-	965	-
Face	mm : -	-	127	-
Roller dia x face	mm : 300 x 375	300 x 375	-	600 x 400
Setting min	mm : 20	20	-	-

Capacity tph : 10.1 to 30

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

	(i)	(ii)	(iii)	(iv)	(v)
Model	O/I	-	I/I	-	I/I
Type	Single coal Heavy duty	Roller coal Heavy duty	Single coal Heavy duty	Roller coal Heavy duty	Single coal Heavy duty
Cap	tph : 15	15	22	25	30
Power	HP : 7.5	15	10	20	15
Roller dia x face	mm : 375 x 375	400 x 600	450 x 450	400 x 600	450 x 600
Feed max	mm : 150	-	200	-	200
Setting min	mm : 40	25	40	25	40

2. Manufacturer/Supplier : M/s Sur Iron & Steel Co. Ltd.,
15, Convent Road,
Calcutta - 700 014.

	(i)	(ii)	(iii)
Type	SISCO double	SISCO double	SISCO rolling bearing
Cap	tph : 18	24	10.1 to 25
Power	HP : 30	30	-
BHP			
	Elec		15
	Diesel		20

M : Ore Preparation Machinery

Speed drive pulley	rpm	:	200 x 260	400 x 600	-
Roller dia x face	mm	:	600 x 400	600 x 400	-
Size feed max	mm	:	19	29	-

Capacity tph : 30.1 to 50

1. Manufacturer/Supplier : M/s. Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448
Calcutta - 700 001.

			(i)	(ii)	(iii)
Model	:		III/1	-	-
Type	:		Single roll coal	Heavy duty	Roller coal Heavy duty
Cap	tph	:	45	50	50
Power	HP	:	20	40	30 x 2 Nos.
Speed	rpm	:	-	-	150
Wt nett	kg	:	-	-	8000
Roller dia x face	mm	:	600 x 600	600 x 900	600 x 600
Feed max	mm	:	350	-	200
Setting min	mm	:	40	50	-

2. Manufacturer/Supplier : M/s Sur Iron & Steel Co. Ltd.,
15, Convent Road,
Calcutta - 700 010.

			(i)	(ii)
Type	:		Double	Double
Cap	tph	:	31	45
Power	HP	:	30	30
Speed drive pulley	rpm	:	200 x 260	200 x 260
Roller dia x face	mm	:	600 x 400	600 x 400
Size feed max	mm	:	32	38

3. Manufacturer/Supplier : M/s Ushamil Associates Pvt. Ltd.,
37-38, Community Centre,
East of Kailash,
New Delhi - 110 065.

Type	:		Single 'Type K'
Cap	tph	:	40 to 50
Power	HP	:	min
Thickness feed	mm	:	20 to 40

Capacity tph : 100 and above

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1 Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

			(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
Model	:		-	VI/1	VII/1	VIII/1	IX/1	X/1	XI/1
Type	:		Roller	Single coal	Single coal	Single coal	Single coal	Single coal	Single coal
			Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy
			duty	duty	duty	duty	duty	duty	duty

M : Ore Preparation Machinery

Cap	tph	:	200	300	450	800	1000	1000	1200
Motor	hp	:	75x2nos.	75	100	150	200	200	250
Speed	rpm	:	100	-	-	-	-	-	-
Wt nett	kg	:	16000	-	-	-	-	-	-
Roller dia x face	mm	:	900x900	900x900	900x1350	1000x1000	1000x1000		1200x1200
1200x1500									
Size feed max	mm	:	600	550	550	900	900	1000	1000
Setting min	mm	:	-	100	100	200	200	250	250
2. Manufacturer/Supplier		:	M/s Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Road, Baroda - 390 002.						
Type		:	(i)	(ii)	(iii)				
Size crusher dia x w	mm	:	Smooth double 400 x 200 to 1500x1500	Spiked 1000 x 2000 to 1750x4700	Toothed single 250 x 600 to 2800 x 2600				
Type		:	(iv)	(v)	(vi)				
Size crusher	mm	:	Toothed double 500 x 500 to 1800 x 3800	Toothed triple 50 x 500 to 1000 x 1500	500 x 500 to 1400 x 1800				
3. Manufacturer/Supplier		:	M/s Sur Iron & Steel Co. Ltd., 15, Convent Road, Calcutta - 700 014.						
Size opening feed	mm	:	(i)						
Pulley dia	mm	:	406 x 254						
Face	mm	:	965						
Speed	rpm	:	127						
Wt	kg	:	325/350						
		:	2525						
4. Manufacturer/Supplier		:	M/s Ushamil Associates Pvt. Ltd., 37-38, Community centre, East of Kailash, New Delhi - 110 065.						
Type		:	(i)	(ii)					
		:	Single type 'K'	Koppers single Single roll crusher three Basic types of crushing Impact, shearer and compression					
Cap	tph	:	100.1 to 1800	-					
Power	HP	:	min	-					
Thickness feed	mm	:	300 to 750	-					

MI (5) Lump Loosners

Manufacturer/Supplier	:	M/s Sayaji & Engg. Co. Pvt. Ltd., Chhani Road, Baroda - 390 002, Gujarat.
Type	:	Performed as well as single roll design in various sizes for loosening lumps formed as a result of storage, exposure to atmosphere, etc. For incoming soft raw material or agglomerated hard lumps

M : Ore Preparation Machinery

MI(6) Feeder Breaker

Manufacturer/Supplier : M/s Ingersoll Rand (India) Ltd.,
Maybaker House, S. K. Ahire Marg,
Mumbai - 400 025.

Type : An adaptation of the single-roll sledging crusher

MI (7) Hammer Crushers

Capacity tph : Upto 50

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

		(i)	(ii)	(iii)	(iv)
Model		32	54	65	96
Type		Swing	Swing	Swing	Swing
Cap	tph	2 to 3	8 to 10	14 to 18	30 to 50
Power	HP	7.5	15	25	25
Speed	rpm	1500	1500	1500	1200
Rotor dia x face	mm	375 x 200	500 x 400	600 x 500	600 x 600
Feed opening	mm	190 x 200	250 x 400	300 x 500	450 x 600

		(v)	(vi)	(vii)
Model		32	54	65
Type		Swing coal ring granulator	Swing coal ring granulator	Swing coal ring granulator
Cap	tph	5	20	30
Power	HP	7.5	15	25
Speed	rpm	600/700	450/500	400/500
Rotor dia x face	mm	375 x 200	500 x 400	600 x 500
Feed opening	mm	125	250	350

2. Manufacturer : M/s Kaps Engineers, 831, G.I.D.C., Makarpura, Vadoadra - 390 010. Supplier : M/s Batliboi & Co. Ltd., Apeejay House, 6th Floor, Dr. V. B. Gandhi Marg, Fort, Mumbai - 400 001.

		(i)	(ii)	(iii)	(iv)	(v)
Model		HC-0	HC-15	HC-15 B	HC-22	HC-22 B
Type		Vm	Vm	Vm	Vm	Vm
Cap	tph	0.35	0.75	1.20	4.00	7.50
Motor power	HP	7.5	15	25	40	75
Size feed max	mm	25	50	50	75	75
Range fineness mesh	BSS	4 to 80	4 to 80	4 to 80	4 to 80	4 to 80
Abrasiveness handled		Medium	Medium	Medium	Medium	Medium

Capacity tph : 50.1 to 100

Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

		(i)	(ii)	(iii)	(iv)
Model		96	99	99	912

M : Ore Preparation Machinery

Type	:	Swing coal ring granulator	Swing	Swing coal ring granulator	Swing
Cap	tph	: 60	60 to 80	90	80 to 100
Power	HP	: 40	100	60	125
Speed	rpm	: 350 to 450	1200	350 to 450	1200
Rotor dia x face	mm	: 900 x 600	900 x 900	900 x 900	900 x 1200
Feed opening	mm	: 500	450 x 900	500	450 x 1200

Capacity tph : Above 100

Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

Model	:	(i) 912	(ii) 915	(iii) 915	(iv) 1012
Type	:	Swing coal ring granulator	Swing coal ring granulator	Swing	Swing
Cap	tph	: 125	150	120 to 160	130 to 175
Power	HP	: 90	120	120	150
Speed	rpm	: 350 to 450	350 x 450	1200	1000
Rotor dia x face	mm	: 900 x 1200	900 x 1500	900 x 1500	1050 x 1200
Feed opening	mm	: 500	500	450 x 1500	525 x 1200

Model	:	(v) 1012	(vi) 1015	(vii) 1015	(viii) 1018
Type	:	Swing coal ring granulator	Swing	Swing coal ring granulator	Swing coal ring granulator
Cap	tph	: 190	150 to 200	230	275
Power	HP	: 150	250	200	250
Speed	rpm	: 300 to 380	1000	300 to 380	300 to 380
Rotor dia x face	mm	: 1050 x 1200	1050 x 1500	1050 x 1500	1050 x 1800
Feed opening	mm	: 600	525 x 1500	600	600

M I (8) Accessories of Crusher Plant

Manufacturer/Supplier : M/s Mukund Ltd.,
L. B. S. Marg, Kurla,
Mumbai - 400 070.

- Upper head mantle
- Lower head mantle
- Internal head mantle
- Bowl liner
- Lower mantle
- Chain link for bdf - 5
- Chain link for bdf - 35

M II MILLS

M II (1) Ball and Rod Mills

Manufacturer/Supplier : M/s Sayaji & Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat.

Size	Dia	mm	:	1000 to 3000
	L	mm	:	1500 to 4200

M : Ore Preparation Machinery

M II (2) Hammer Mills

1. Manufacturer/Supplier	:	M/s Durgapur Engineering Co. Ltd., 33/1, Netaji Subhash Road, Marshal House, 4th Floor, Room No. 448, Calcutta - 700 001.					
Model	:	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Type	:	54	65	96	99	912	915
Cap	tph	: Chain	: Chain	: Chain	: Chain	: Chain	: Chain
Power	HP	: 6 to 8	: 10 to 20	: 20 to 30	: 30 to 50	: 40 x 60	: 50 to 75
Speed	rpm	: 2 x 10	: 2 x 15	: 2 x 30	: 2 x 50	: 2 x 60	: 2 to 75
Rotor dia x face	mm	: 1500	: 1500	: 1200	: 1200	: 1200	: 1200
Opening feed	mm	: 500 x 400	: 600 x 500	: 900 x 600	: 900 x 900	: 900 x 1200	: 900 x 1500
		: 250 x 400	: 300 x 500	: 450 x 600	: 450 x 900	: 450 x 1200	: 450 x 1500
2. Manufacturer/Supplier	:	M/s Kaps Engineers, 831, G.I.D.C., Makarpura, Vadodra - 390 010.			Supplier : M/s Batliboi and Co. Ltd., Apeejay House, 6th Floor, Dr. V. B. Gandhi marg, Fort, Mumbai - 400 023.		
Model	:	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Type	:	SM-15	SM-25	SM-40	VFM-300	VFM-400	VFM-600
Cap operation	tph	: Vm Air	: Vm Air	: Vm Air	: Vm Ultra	: Vm Ultra	: Vm Ultra
Motor power	HP	: Swept	: Swept	: Swept	: Fine	: Fine	: Fine
Size feed max	mm	: 0.25	: 0.50	: 0.80	: 0.075	: 0.25	: 0.50
Range fineness mesh	BSS	: 20	: 30	: 50	: * 10+0.5	: *20+1	: * 40+1
		: 10	: 12	: 15	: 3	: 5	: 10
		: 150 to 400	: 150 to 400	: 150 to 400	: 200 to 400	: 200 to 400	: 200 to 400
Model	:	(vii)	(viii)	(ix)	(x)	(xi)	(xii)
Type	:	CFM-01	CFM-03	CFM-06	AC-01	AC-02	AC-03
Cap operation	tph	: Vm Classifier	: Vm Classifier	: Vm Classifier	: Vm Air Classifier	: Vm Air Classifier	: Vm Air Classifier
Motor power	HP	: 0.15	: 0.50	: 1	: 0.005 to 0.050	: 0.025 to 0.20	: 0.05 to 0.50
Size feed max	mm	: 15+1	: *40+1	: *75+1	: *3	: *7.5	: *15
Range fineness Mesh	BSS	: 3	: 6	: 10	: Below 100 Microns	: Below 100 Microns	: Below 100 Microns
		: 75 to 10	: 75 to 10	: 75 to 10	: 5 to 53	: 5 to 53	: 5 to 53
		* Maindrive & feeder drive			Excluding conveying & air filtration		
3. Manufacturer	:	M/s Lone Star Industries, Vikhroli, Mumbai - 400 079.			Supplier : M/s Batliboi and Co. Ltd., Apeejay House, 6th Floor, Dr. V. B. Gandhi Marg, Fort, Mumbai - 400 023.		
Model	:	(i)	(ii)	(iii)	(iv)	(v)	
Type	:	HM-0	HM-1	HBC-1	HM-2	HBC-2	
Cap approx	tph	: T-shaped, flat bar, strip & syrup	: T-shaped, flat bar, strip & syrup	: T-shaped, flat bar, strip & syrup	: T-shaped, flat bar, strip & syrup	: T-shaped, flat bar, strip & syrup	
Power	HP	: upto 0.3	: upto 0.75	: upto 1.2	: upto 4	: upto 7.5	
Speed	rpm	: 5 to 7.5	: 10 to 15	: 20 to 25	: 30 to 40	: 60 to 75	
Dia Grinding	mm	: 4000/4500	: 3000/3500	: 2500/3000	: 2000/2200	: 1800/2000	
Chamber W	mm	: 250	: 375	: 375	: 550	: 550	
		: 150	: 200	: 300	: 360	: 520	

M : Ore Preparation Machinery

4. Manufacturer/Supplier : M/s Sayaji & Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002
Gujarat.
- Size Dia mm : 400 to 2500
W mm : 400 to 2500
- Design : Reversible or non-reversible.
Series : Three different series for soft, medium and hard materials

5. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004,
Uttar Pradesh.

Dia mills mm : upto 1828.8

6. Manufacturer/Supplier : M/s Ushamil Associates Pvt. Ltd.,
37-38, Community centre, East of Kailash,
New Delhi - 110 065.

Type : Ushamil 'U' Series Ring
Ushamil JRT Series
Fitted with swing hammers

M II (3) Grinding Mills

1. Manufacturer/Supplier : M/s International Combustion (India) Ltd.,
101, Park Street,
Calcutta - 700 016

Type		(i)	(ii)	(iii)
Motor power approx	HP	MM - 622	MM - 636	mm - 648
Space requirement		60	75	100
Approx L x W x H	m	10 x 9 x 10	11 x 10 x 10	12.5 x 10 X 10
Wt approx	kg	60	8100	8300

2. Manufacturer/Supplier : M/s Sayaji Iron and Engg. Co. Pvt. Ltd.,
Channi Road, Baroda - 390 001
Gujarat.

Type : Pan

3. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh.

Size mills mm : Above 1828.8

4. Manufacturer/Supplier : M/s Ushamil Associates Pvt. Ltd.,
37-38, Community Centre,
East of Kailash,
New Delhi - 110 065.

Type : Spur, Single helical or double helical
Power HP : 250
Speed rpm : 40 for small mills
Cap 325 mesh tph : 0.1 to 11
35 mesh tph : 0.4 to 75
Size mm : 18 to 144

M : Ore Preparation Machinery

M II (4) Impact Mills

Capacity : tph : upto 10

Manufacturer : (1) M/s Kaps Engineers, 832, G.I.D.C., Makarpura, Vadodara- 390 010 Gujarat. (2) M/s Lone Star Industries, Samrat Silk Mills Compound, L. B. Shastri Marg, Vikhroli, Mumbai - 400 079.

Supplier : M/s Battiboi and Co. Ltd., Apeejay House, 6th, Floor, Dr. V. B. Gandhi Marg, Fort, Mumbai -400 001.

	(i)	(ii)	(iii)
Model	IM - 600	IM - 800	IM- 800 B
Type	Vm Impex	Vm Impex	Vm Impex
Cap operation	tph : 0.2	0.5	0.75
Power	HP : *30+1	*50+1.5	*60+2
Size feed max	mm : 30	30	30
Range Fineness mesh	BSS : 150 to 300	150 to 300	150 to 300
Abrasiveness handled	: Medium	Medium	Medium
Toughness handled	: Soft - medium - hard	Soft - medium - hard	Soft - medium - hard

* For main drive and feeder drive.

M II (5) Roller Mills

Capacity : 0.25 to 25

1. **Manufacturer/Supplier** : M/s International Combustion (India) Ltd., 101, Park Street, Calcutta - 700 016

	(i)	(ii)	(iii)	(iv)
Model	6669	6058	5448	5057
Type	Raymond	Raymond	Raymond	Raymond
Cap	tph : 0.25 to 25	0.25 to 25	0.25 to 25	0.25 to 25
Power	HP : 150 to 300	75 to 200	40 to 100	40 to 100
Model	(v) 5048	(vi) 3036	(vii) 312	(viii) 516
Type	Raymond	Raymond automatic separation	Raymond with automatic separation	Raymond with automatic separation
Cap	tph : 0.25 to 25	0.25 to 25	0.5 to 1.7	2 to 7.5
Power	HP : 40 to 100	15 to 30	25	75
Gradient creater	HP : -	-	25	75
H	m : -	-	5.6 x 6.0 x 7.51	7.8 x 7.0 x 10.5

M II (6) Roller Mills

Manufacturer/Supplier : M/s Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Road, Baroda - 390 001 Gujarat.

Size Dia mm : 200 to 600
L mm : 1500 to 3500
Design : Twin tube and three tube

M : Ore Preparation Machinery

M II (7) Impact Breakers

1. Manufacturer/Supplier	:	M/s Sur Iron and Steel Co. Pvt. Ltd., 15, Convent Road, Calcutta - 700 014.			
Model	:	(i) Coal - Mark-1 (with fixed breaker plate)	(ii) Coal - Mark-2 (with oscillating breaker plate)	(iii) Coal - Mark-1 (with fixed breaker plate)	(iv) Coal - Mark-2 (with oscillating breaker plate)
Type	:	SISCO single roll	SISCO single roll	SISCO single roll	SISCO single roll
Cap	tph	: 18	: 20	: 24	: 27
Power	BHP	: 12	: 13	: 15	: 17
Speed approx	rpm	: 400	: 400	: 400	: 400
Size breaker	mm	: 457.2 x 457.2	: 457.2 x 457.2	: 457.2 x 609.6	: 457.2 x 609.6
setting	mm	: 12.7 x 152.4	: 12.7 x 152.4	: 12.7 x 152.4	: 25.4 x 152.4
Model	:	(v) Coal-Mark-1 (with fixed breaker plate)	(vi) Coal-Mark-21 (with oscillating breaker plate)	(vii) -	-
Type	:	SISCO single roll	SISCO single roll	-	-
Cap	tph	: 35	: 40	-	-
Power	BHP	: 23	: 25	-	-
Speed approx	rpm	: 400	: 400	-	-
Size breaker	mm	: 609.6 x 609.6	: 609.6 x 609.6	: 600 x 2000 to 400 x 200	-
Setting	mm	: 12.7 x 152.4	: 25.4 x 162.6	-	-
2. Manufacturer/Supplier	:	M/s Ushamil Associates Pvt. Ltd., 37-38, Community centre, East of Kailash, New Delhi -110 065.			
		(i) Ushamil - Koppers Rotary (ii) Ushamil- Crushit Pedestal System			

M II (8) Accessories of Mills

Manufacturer	:	M/s Lone Star Industries, Vikhroli, Mumbai - 400 079	Supplier :	M/s Batliboi and Co. Ltd., Apeejay house, 6th floor, Dr. V.B.Gandhi Marg, Fort, Mumbai - 400 023.
		Liner Plates		
		(i) Top heavy-duty rough		
		(ii) Side liners for body and top cover		

M III SCREENS

M III (1) Vibrating Screens

1. Manufacturer/Supplier	:	M/s Elektromag Devices, 404, Unique Industrial Estate, Off Veer Savarkar Marg, P.B. No.9141, Prabhadevi, Mumbai - 400 025.		
Model	:	(i) VSO	(ii) VSO	(iii) VSE
Drive	:	Unbalance motors	Electro-magnetic	One unbalance motor
Screen	W x L mm	: 400/1000 to 2000/500	: 300/600 to 900/1750	: 400/1000 to 900/2000

M : Ore Preparation Machinery

Surface screening Effective sq	m	:	0.36 to 0	0.12 to 1.25	0.34 to 1.60
Wt Working	kg	:	70 to 1800	17 to 200	36 to 205
Wt Total	kg	:	130 to 2440	35 to 500	47 to 275

2. Manufacturer/Supplier : M/s International Combustion (India) Ltd.,
101, Park Street,
Calcutta - 700 016.

Model	:	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	
Type	:	GR2.5-1000	GR3-1250	GR3.5-1400	GR4-1600	GR4.5-1800	GR5-2000	GR6-2500	
Exciter	:	Single	Single	Single	Single	Single	Single	Single	
Power	:	Deck	Deck	Deck	Deck	Deck	Deck	Deck	
Speed	:	A 41	A 76	A 76	A 143	A 142 S	A 260	A 260	
Size	:	2.2	4.0	4.0	7.5	11	22	22	
L mm	:	1500	1500	1500	1500	1000	1000	1000	
W mm	:	2500	3000	3500	4000	4500	5000	6000	
Wt with spring support plate	kg	:	1000	1250	1400	1600	1800	2000	2500
Model	:	(viii)	(ix)	(x)	(xi)	(xii)	(xiii)		
Type	:	DO 2.5-1000	DO 3-1250	DO 3.5-1400	DO 4-1600	DO 4.5-1800	DO 5-2000		
Exciter	:	Double	Double	Double	Double	Double	Double		
Power	:	Deck	Deck	Deck	Deck	Deck	Deck		
Speed	:	A 76	A 76	A 142	A 142	A 260	A 260		
Size	:	4.0	4.0	7.5	7.5	22	22		
L mm	:	1500	1500	1500	1500	1000	1000		
W mm	:	2500	3000	3500	4000	4500	5000		
Wt with spring support plate	kg	:	1000	1250	1400	1600	1800	2000	
		:	820	1350	2150	2850	5100	5900	

M III (2) Rotary Screens

1. Manufacturer/Supplier : M/s Kusum Engineering Co. Ltd.,
25, Swallow Lane,
Calcutta - 700 001.

Model	:	(i)	(ii)	(iii)	(iv)	(v)
Type	:	JC 2424	JC 169	JC 147	JC 126	JC 94
Size screen	Dia x L mm	With jaw crusher	With jaw crusher	With jaw crusher	With jaw crusher	With jaw crusher
		1200 x 3000	760 x 1830	600 x 1830	525 x 1830	430 x 1830
Model	:	(vi)	(vii)	(viii)	(ix)	(x)
Type	:	JG 246	JG 165	JG 144	JG 124	JG 94
Size screen	Dia x L mm	With jaw crusher	With jaw crusher	With jaw crusher	With jaw crusher	With jaw crusher
		900 x 2100	700 x 1830	600 x 1830	525 x 1830	430 x 1830

2. Manufacturer/Supplier : M/s Sayaji Iron And Engg. Co. Pvt Ltd.,
Chhani Road,
Baroda - 390 001, Gujarat.

Type	:	Rotary screens
Size	Dia X L mm	750 x 2400 900 x 2700 900 x 3600

M : Ore Preparation Machinery

3. Manufacturer/Supplier : M/s Sur Iron and Steel Co. Pvt. Ltd.,
15, Convent Road,
Calcutta - 700 014.
- Overall screen
Dia x L mm : 762 x 2440
L in three gratings mm : 609, 914 and 914
With 38 mm overlapped by dust jacket on the intake side
With standard size of holes 13 mm, 15 mm, 25 mm, 38 mm, 63 mm
The screen is punched from 6.38 mm or 4.76 mm MS plate
Mounted on a 63 mm dia shaft by cast iron stays.
4. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh.
- Type : Rotary Disc
5. Manufacturer/Supplier : M/s Ushamil Associate Pvt. Ltd.,
37-38, Community Centre,
East of Kailash,
New Delhi - 110 065.
- Dia mm : 600, 750, 900 and 1200

M III (3) Bar Screens

1. Manufacturer : M/s Lone Star Industries,
Vikhroli,
Mumbai - 400 079. Supplier : M/s Batliboi and Co. Ltd.,
Apeejay House, 6th Floor,
Dr. V.B. Gandhi Marg, Fort,
Mumbai - 400 023.
- Type : With adjustable bars and spacers
2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004,
Uttar Pradesh.
- Type : Mechanically cleaned, all types

M III (4) Crushing and Screening Plants

- Capacity** cu m/hr : 15 and above
- Manufacturer/Supplier : M/s Sayaji Iron and Engg. Co. Pvt. Ltd.,
Channi Road,
Baroda - 390 002
Gujarat.
Used for ore beneficiation
- Type : (i) Concrete batching plants
(used for ore beneficiation) (ii) Portable
crushing screening plants
- Cap cu m/hr : 15 and above

M : Ore Preparation Machinery

M III (5) Vibrators

Manufacturer/Supplier : M/s International Combustion (India) Ltd.,
101, Park Street,
Calcutta - 700 016.

(a) Vibrators

		(i)	(ii)	(iii)	(iv)
Model	:	V - 15	V - 55	V - 75	V - 200
Type	:	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic
Supply 50 Cycles, AC	V :	220/240	400/440	400/440	400/440
Input max	A :	1.5	3	3	7
Vibrations/min	:	3000	3000	3000	3000
Wt net of vibrator approx	kg :	7.5	7.5	50	93
Wt net of controller approx	kg :	4	4	15	15

(b) Vibratory Packers

Model	:	vp - 55
Type	:	IC Electromagnetic
Supply 50 cycles, Ac	V :	400/440
Input max	A :	3
Vibrations/min	:	3000
Wt net of vibrator approx	kg :	50
Wt net of controller approx	kg :	4
Size table	mm :	508 x 508

M IV (1) Pulveriser

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No. 448,
Calcutta - 700 001.

		(i)	(ii)	(iii)	(iv)	(v)
Model	:	32	54	65	96	96
Type	:	Hammer swing	Hammer swing	Hammer swing	Hammer swing	Hammer swing
Cap	tph :	0.5 to 2	4 to 5	5 to 15	15 to 25	25 to 35
Power	HP :	10	20	30	60	100
Speed	rpm :	1600	1500	1500	1200	1200
Rotor dia x face	mm :	380 x 200	500 x 400	600 x 500	900 x 600	900 x 900
Opening feed	mm :	190 x 200	250 x 400	300 x 500	450 x 600	450 x 900
Model	:	(vi) 912	(vii) 915	(viii) 1012	(ix) 1015	(x) 1018
Type	:	Hammer swing	Hammer swing	Hammer swing	Hammer swing	Hammer swing
Cap	tph :	35 to 45	50 to 60	50 to 75	60 to 80	70 to 100
Power	HP :	125	175	225	250	300
Speed	rpm :	1200	1200	1000	1000	1000
Rotor dia x face	mm :	900 x 1200	500 x 1500	1050 x 1200	1050 x 1500	1050 x 1800
Opening feed	mm :	450 x 1200	450 x 1500	525 x 1200	525 x 1500	525 x 1800

M : Ore Preparation Machinery

2. Manufacturer/Supplier : M/s International Combustion (India) Ltd.,
101, Park Street,
Calcutta - 700 016
- Type : Impax Raymond No.3
High speed
- Power HP : 30
Speed rpm : 1450
Motor : Tefc slip ring type
Current supply : 3 ph ac
Size mm : 3980 x 2900 x 5070
3. Manufacturer/Supplier : M/s Kaps Engineers, 832, G.I.D.C., Makarpura,
Vadodara - 390 010,
Gujarat
- Supplier : M/s Batliboi and Co. Ltd.,
Apeejay House, 6th Floor,
Dr. V. B. Gandhi Marg, Fort,
Mumbai - 400 001

		(i)	(ii)	(iii)
Model	:	Bentum	MP - 1	MP - 2
Type	:	Vm Mikro	Vm Mikro	Vm Mikro
Cap operation	tph	0.025	0.15	0.45
Power	HP	*2 + 0.5	*5 + 0.5	*10 + 1
Size feed max	mm	3	6	10
Range fineness				
mesh	BSS	150 to 300	150 to 300	150 to 300
Abrasiveness handled	:	Low	Low	Low
Toughness handled	:	Brittle soft	Medium hard	Brittle soft

* For Main Drive and Feeder Drive

		(iv)	(v)	(vi)	(vii)	(viii)
Model	:	PP-08	PP-12	PP-20	PP-24	PP-24B
Type	:	Vm pin disc	Vm pin disc	Vm pin disc	Vm pin disc	Vm pin disc
Cap operation	tph	0.10	0.40	1.20	2	3
Power	HP	3	7.5	20	30	40
Size feed max	mm	6	10	12	15	20
Range fineness						
mesh	BSS	60 to 200	60 to 200	60 to 200	60 to 200	60 to 200
Abrasiveness handled	:	Low	Low	Low	Low	Low
Toughness handled	:	Brittle	Soft	Medium	Hard	-

M IV (2) Granulators

- Manufacturer/Supplier : M/s Ushamil Associate Pvt. Ltd.,
37-38, Community Centre, East of Kailash,
New Delhi-110 065
- Type : (i) JRK (ii) Ushamil Pennsylvania
Ring type TK
- Cap : Less than 150
Size feed mm : Upto150

M IV (3) Feeders

(a) Apron Feeders

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, Room No. 448,
Calcutta - 700 001

M : Ore Preparation Machinery

Cap	tph	:	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Power	HP	:	15 to 50	30 to 120	50 to 200	80 to 300	100 to 400	200 to 600
Speed	rpm	:	1 to 3	2 to 7.5	3 to 10	3 to 15	5 to 20	10 to 25
Size	L	mm	:	10 to 30	10 to 30	10 to 30	10 to 30	10 to 30
	W	mm	:	2000	2500	3000	4000	5000
			:	400	600	800	1000	1500

2. Manufacturer/Supplier : M/s International Combustion (India) Ltd.,
101, Park Street,
Calcutta - 700 016

Type : Schenck
Cap : Custom built

3. Manufacturer/Supplier : M/s Sayaji Iron and Engg. Co. Pvt. Ltd.,
Chhani Road, Baroda - 390 002
Gujarat

Cap : 50 to 1000
Material size : 1200 and under
Bigger sizes also available on specific request

(b) Belt feeders

Manufacturer/Supplier : M/s Jenson and Nicholson,
Electronic Weighfeeders Divn.,
Plot 67-82, Tupudana Industrial Area,
Ranchi - 834 002

Type : Proportioning system
Accuracy : 0.5 to 1% According to type
Rate feed : 10 : 1
Special design : With range chanceover, Max 100 :1

(c) Disc Feeder

Capacity : tph : Upto 20

Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No.448,
Calcutta - 700 001

Cap	tph	:	(i)	(ii)	(iii)	(iv)
Power	HP	:	5	8	12	20
Speed	rpm	:	2	3	5	7.5
Size	mm	:	25 to 50	20 to 40	15 to 30	20 to 25
Dia disc	mm	:	600	800	1000	1200
		:	600	800	1000	1200

(d) Reciprocating feeders

Capacity : tph : Up to 500

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No.448,
Calcutta - 700 001

M : Ore Preparation Machinery

Cap	tph	:	(i) 50 to 30	(ii) 20 to 50	(iii) 40 to 100	(iv) 90 to 200	(v) 200 to 500
Type		:	Tray plate	Tray plate	Tray plate	Tray plate	Tray plate
Power	HP	:	5	7.5	10	155	25
Speed	Strokes/min	:	20 to 40	20 to 35	15 to 30	15 to 25	10 to 20
Wt approx		:	2000	3000	4500	7500	11000
Size tray	mm	:	600 x 2000	800 x 3000	1000 x 4000	1200 x 5000	1500 x 6000

2. Manufacturer/Supplier : M/s Sayaji Iron and Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat.

Type : Heavy duty
Cap : Upto 400
Size : Upto 1400 x 5000
Custom built, Larger sizes also available on specific request.

(e) Rotary air lock feeder

Capacity tph : 0 to 10

Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No.448,
Calcutta - 700 001

Cap	tph	:	(i) 0.1 to 1.2	(ii) 0.1 to 2.5	(iii) 0.2 to 5	(iv) 0.5 to 7.5
Power	HP	:	0.5	1	2	5
Speed	rpm	:	10 to 30	5 to 25	5 to 20	5 to 15
Rotor dia	mm	:	200	300	400	500

(f) Screw Feeders

Capacity tph : 0 to 100

Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No.448,
Calcutta - 700 001

Cap	cu m/hr	:	(i) 3 to 15	(ii) 5 to 25	(iii) 6 to 40	(iv) 7 to 60	(v) 8 to 70	(vi) 10 to 80
Power	HP	:	0.5 to 2	1 to 3	1 to 5	2 to 7.5	3 to 10	5 to 15
Speed	rpm	:	20 to 60	20 to 60	15 to 55	12 to 50	10 to 40	10 to 30
Screw	Dia mm	:	150	250	300	400	500	600
	L mm	:	As per Requirement	As per Requirement	As per Requirement	As per Requirement	As per Requirement	As per Requirement

(g) Vibrating Feeders

Capacity cu /hr : Upto 100

1. Manufacturer/Supplier : M/s Durgapur Engineering Co. Ltd.,
33/1, Netaji Subhash Road,
Marshal House, 4th Floor, Room No.448,
Calcutta - 700 001

M : Ore Preparation Machinery

Type	:	(i) Tray	(ii) Tray	(iii) Tray	(iv) Tray		
Cap	cu m/hr	: 10 to 50	10 to 70	20 to 100	20 to 100		
Power	HP	: 2	3	5	7.5		
Speed	rpm	: 500 to 1000	500 to 1000	500 to 1000	500 to 1000		
Size tray	W x Dia	mm : 600 x 150	800 x 150	1000 x 235	1200 x 225		
	L	mm : 1200	1500	1800	2400		
2. Manufacturer/Supplier		: M/s International Combustion (India) Ltd., 101, Park Street, Calcutta- 700 016					
Model	:	(i) F - 01	(ii) F - 152	(iii) F - 2	(iv) F - 22	(v) F - 33	(vi) F - 44
Type	:	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic
Cap	tph	: 3	6	15	25	50	100
Power approx	watts	: 80	100	260	300	525	1000
Net wt approx	kg	: 22.7	36.4	113.6	190.9	427.3	1022.7
Current input approx at 220/240 V	A	: 1	1.25	2.5	5	4	9
	L	mm : -	-	-	900	1100	1200
Capacity	cu/hr	: Above 100					
1. Manufacturer/Supplier		: M/s Durgapur Engineering Co. Ltd., 33/1, Netaji Subhash Road, Marshal House, 4th Floor, Room No.448, Calcutta - 700 001					
Type	:	(i) Tray	(ii) Tray				
Cap	cu m/hr	: 100.1 - 120	100.1 - 170				
Power	HP	: 5	7.5				
Speed	rpm	: 500 to 1000	500 to 1000				
Size tray	W x Dia	mm : 1000 x 235	1200 x 225				
	L	mm : 1800	2400				
2. Manufacturer/Supplier		: M/s International Combustion (India) Ltd., 101, Park Street, Calcutta- 700 016					
Model	:	(i) F - 45	(ii) F - 55	(iii) F - 66	(iv) F - 86	(v) -	
Type	:	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	IC Electro-magnetic	Linear Motion	
Cap	tph	: 200	200	600	1000	2000	
Power approx	watts	: 1750	2300	2400	2600	-	
Wt net approx	kg	: 1409	3181.8	3522.7	4090.9	-	
Current input approx at 400 V.50 Cycles	A	: -	14	23	25	40	-
	L	mm : 1500	-	-	-	-	-
Frequency vibrations/min	:	-	-	-	-	-	750, 1000 or 1500
Size	W x L	mm : -	-	-	-	-	from 600 to 450 x 1000 to 11000

M : Ore Preparation Machinery

(h) Weighfeeders

Manufacturer	:	M/s Jenson and Nicholson, Electronic Weighfeeders Division, Plot 67-82, Tupudana Industrial Area, Ranchi - 834 002	Supplier :	M/s Protos Engg. Co. Pvt. Ltd., 173, Jamshedjee Tata Road, Churchgate, Mumbai - 400 020
Type	:	(i) Schenck Electronic Light Dab	(ii) Schenck Electronic Normal Dam	(iii) Schenck Electronic Front
Drive	:	Rear	Front	Front
Speed nominal	rpm :	1500/750	1500/750	1500/750
Pulley dia	mm :	190	320	415
Belt W	mm :	800, 1000 or 1200	1000, 1200 or 1400	1600, 1800 or 2000
Range measuring	:	Larger than 100 : 1	Larger than 100 : 1	Larger than 100 : 1

M IV (4) Filters

1. Manufacturer/Supplier	:	M/s Hindustan Dorr-Oliver Ltd., Dorr-Oliver House, Chakala, Andheri (East), Mumbai - 400 099			
Model	:	(i) DO-1	(ii) DO-3.5	(iii) DO-10	(iv) DO-25
Volume cell	cu m :	0.03	0.1	0.3	0.7
Installed power per shaft mineral applications	kW :	0.55	0.55	0.1	0.2
Speed rotor	:				
Rotational	rpm :	800	550	420	300
Peripheral	m/min :	225	235	240	245
Dimensions internal L x W x D	mm :	300x300x330	450x450x500	650x650x660	900x900x860
Model	:	(v) DO-50	(vi) DO-100	(vii) DO-150	(viii) DO-300-C
Volume cell	cu m :	1.4	2.8	4.2	8.5
Installed power per shaft mineral applications	kW :	4	5.5	7.5	-
Speed rotor	:				
Rotational	rpm :	240	220	237	180
Peripheral	m/min :	255	295	310	280
Dimensions internal L x W x D	mm :	1200x1200x970	1520x1520x1220	1830x1830x1530	2290x2290x1880
Model	:	(ix) DO-300	(x) 500-C	(xi) DO-600	(xii) DO-1000
Volume cell	cu m :	8.5	148	172	28
Installed power per shaft mineral applications	kW :	11	-	22	30
Speed rotor	:				
Rotational	rpm :	217	217	170	180
Peripheral	m/min :	335	335	350	360
Dimensions internal L x W x D	mm :	2290x2290x880	2690x2690x2260	2950x2690x2460	3350x3350x2890

M : Ore Preparation Machinery

Model	:	(xiii)	(xiv)	(xv)	(xvi)
Type	:	DO-1350	DO-1550	-	-
Volume cell	cu m	38	44	-	-
Installed power per shaft	KW	37	45	-	-
Speed rotor					
Rotationalrpm		165	145	-	-
Peripheralm/min		385	410	-	-
Dimensions internal					
L x W x D	mm	3810x3580x3220	3960x3960x3220	-	-
Drum	L	-	-	1219 to 7315	-
Drum	Dia	-	-	1829, 2438, 3048	-
				and 3658 in	
				increments of 610	
Disc dia	mm	-	-	-	1829 to 3353
Overall	L	-	-	-	2642 to 7112
	W	-	-	-	2540 to 4191
Wt	kg	-	-	-	2920 to 18000
2. Manufacturer/Supplier	:	M/s Triveni Engg. Works Ltd., Goverdhan Road, Mathura - 281 004, Uttar Pradesh			
		Rotary vaccum drum & dust filters of various types			

M IV (5) Thickeners

Manufacturer/Supplier	:	M/s Hindustan Dorr-Oliver Ltd., Dorr-Oliver House, Chakala, Andheri (East), Mumbai - 400 099		
Type	:	(i) Tray	(ii) Dorr-Oliver Type 'A' Drive head	(iii) 'S' drive head
Torque	kg/m	upto 195325	83100	554000
Size range dia	m	upto 30.487	-	-

M IV (6) Classifiers

1. Manufacturer/Supplier	:	M/s. Hindustan Dorr-Oliver Ltd., Dorr-Oliver House, Chakala, Andheri (East), Mumbai - 400 099		
Type	:	(i) 'H' rake	(ii) 'FR' simplex	(iii) 'FR' duplex
Cap overflow dry	t	480 to 1290 &	80 to 115 &	160 to 230 &
Solids at 2.7 Sp Gr		2860 to 6440	105 to 115	210 to 230
W	m	1.210 to 4.870	0.460 to 0.610	0.920 to 1.210
L	m	6.090 to 7.310	3.650 and 6.090	3.650 and 6.090
2. Manufacturer/Supplier	:	M/s Triveni Engg. Works Ltd., Goverdhan Road, Mathura - 281 004, Uttar Pradesh		

M : Ore Preparation Machinery

- (i) Spiral classifiers
- (ii) Vertiflow clarifiers
- (iii) Reactors and flocculator clarifiers
- (iv) Float - Treat clarifiers

M IV (7) Agitators

1. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099

Type : Dorr-Oliver agitators
2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh

Agitators (Conventional as well as improved mill propellers)

M IV (8) Separators

1. Manufacturer/Supplier : M/s Electromag Industries Pvt. Ltd.,
Unique Industrial Estate,
Off Veer Savarkar Marg, P. B. 9141, Prabhadevi,
Mumbai - 400 02

Type : (i) Electromag permanent
Magnetic drum separators
(ii) Electromag wet drum
separators

Drum Dia mm : 200, 300, 400, 500 & 650
W mm : 300 to 1200
500, 1000, 1500, 2000 & 3000
2. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099

Type : Dorr Hydroseparators
3. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh

Type : Drewboy heavy media separators, Magnetic drum separators,
Oil separators including API designs

M IV (9) Flotation Cells

1. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099.

Type : Galighar agitator flotation cells
2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh

Cell to cell flotation machines or flotation machines

M : Ore Preparation Machinery

M IV (10) Cyclones

1. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099
- | | | | | |
|------------------|----------|-------------|-------------|--------------|
| Type | | (i) | (ii) | (iii) |
| Cap | LPM | FR-152.4 mm | FR-304.8 mm | FR-609.6 mm |
| Normal operating | | 177 to 416 | 700 to 1485 | 2683 to 5645 |
| Separation Range | kg/sq cm | 1.5 | 1.5 | 1.5 |
| Microne | | 28 to 40 | 36 to 46 | 50 to 68 |
2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Govardhan Road,
Mathura - 281 004, Uttar Pradesh
: Crit cyclones

M IV (11) Suspension Magnets

1. Manufacturer/Supplier : M/s Electromag Industries Pvt. Ltd.,
Unique Industrial Estate,
Off Veer Savarkar Marg, P. B. 9141, Prabhadevi,
Mumbai - 400 025
: Suspension magnets
2. Manufacturer/Supplier : M/s Power Build Limited,
Anand Sujitra Road,
Vallabh Vidyanagar - 488 120, Gujarat
- | | | |
|----------|----|---------------------------|
| Type | | Suspension Electromagnets |
| W | mm | 400 to 2000 |
| Ball dia | mm | 25 |
| Wt max | kg | 50 |

M IV (12) Electro Magnetic Pulleys

1. Manufacturer/Supplier : M/s Electromag Industries Pvt. Ltd.,
Unique Industrial Estate,
Off Veer Savarkar Marg, P. B. 9141, Prabhadevi
Mumbai - 400 025
: Electromagnetic pulleys
2. Manufacturer/Supplier : M/s Power Build Limited,
Anand Sujitra Road,
Vallabh Vidyanagar - 388 120, Gujarat
: Electromagnetic pulleys
- | | | |
|----------------|-------|-------------|
| Belt speed max | m/sec | 4 |
| W | mm | 400 to 2000 |
| Pulley dia | mm | 1600 |

M IV (13) Magnetic Separators

1. Manufacturer/Supplier : M/s Electromag Industries Pvt. Ltd.,
Unique Industrial Estate,
Off Veer Savarkar Marg, P. B. 9141, Prabhadevi,
Mumbai - 400 025
- Type : Overband

M : Ore Preparation Machinery

2. Manufacturer/Supplier : M/s G. R. Industries,
10, Jessore Road,
Calcutta - 700 028
- Type : Electro
3. Manufacturer/Supplier : M/s Power Build Limited,
Anand Sujitra Road,
Vallabh Vidyanagar - 388 120, Gujarat
- Type : Overband self Cleaning Type Electro
- W mm : 400 to 2000
- Ball Dia mm : 25
- Wt max kg : 50

M IV (14) Metal Detecting Devices

1. Manufacturer/Supplier : M/s Electromag Industries Pvt. Ltd.,
Unique Industrial Estate,
Off Veer Savarkar Marg, P. B. 9141, Prabhadevi,
Mumbai - 400 025
- | | (i) | (ii) |
|---------------------------|-------------------------|-------------------------|
| Model | MS 06/85/SC. SCTA | MS 08/85/SQ.SQTA |
| Power voltage | 240 V \pm 10% / 50 Hz | 240 V \pm 10% / 50 Hz |
| Power Requirement va | 15 | 15 |
| Belt speed m/sec | 0.3 to 3 | 0.3 to 3 |
| Ambient temp $^{\circ}$ C | -20 to + 55 | -20 to + 55 |
| Wt approx kg | 25 | 18 |
2. Manufacturer/Supplier : M/s Power Build Limited,
Anand Sujitra Road,
Vallabh Vidyanagar - 388 120, Gujarat
- : Metal detector

M IV (15) Dryers and Collectors Etc.

- Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh
- : Rotary kilns and dryers
 - : Flash dryers
 - : Conveyor type & circular sludge collectors & tanks
 - : Travelling bridge collectors
 - : Grit collectors
 - : Grit washers and dewatering equipment
 - : Aerated grit chambers
 - : 'Tow-Bro' sludge collectors
 - : 'Rim-Flo' tanks and equipment
 - : Mill scale collectors

M : Ore Preparation Machinery

M IV(16) Other Ore Preparation Plants and Systems

1. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099
(i) : Fluosolid system
(ii) : Feedwells
2. Manufacturer/Supplier : M/s Sayaji Iron and Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat
(i) : Rock crushing and stacking plants
(ii) : Limestone crushing and screening plants
(iii) : Coal handling plants
(iv) : Raw material preparation and handling
(v) : Specialised system
(vi) : Counter flow mixers
(vii) : Steel plant equipment
(viii) : Concrete transportation buckets in various capacities.
3. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh
: Gravity belts

M IV (17) Accessories

1. Manufacturer/Supplier : M/s Hindustan Dorr-Oliver Ltd.,
Dorr-Oliver House,
Chakala, Andheri (East),
Mumbai - 400 099
: DSM sieve bends
: Dorrco jet sizers
Separation Range Mesh : 78 to 400
2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004, Uttar Pradesh
: Flocculation equipment including turbine Flocculators
: Low speed mechanical aerators
: Trash rakes
: Orbal aeration systems
: Samplers
: Pulp distributors
: Rotary distributors for trickling filters
: Rotary lift air diffusion
: Digester floating covers

M IV (18) Weighing Machines

(a) Spring Balances

- Capacity kg : Upto 50
1. Manufacturer/Supplier : M/s Powermaster Industrial Equipments Pvt. Ltd.,
Gala No. 5 & 18, Rashmi Industrial Estate No. 1
Dewan and shah Udyog Nagar, Navghar,
Vashi Road (East), Dist. Thane - 401 202

M : Ore Preparation Machinery

Model				(i)	(ii)	(iii)	(iv)	(v)				
Cap	min	kg	:	SES - 1	SES - 2	SES - 3	SES - 5	SES - 9				
	max	kg	:	0.25	1.0	2.5	4.5	15.0				
Wt unit		kg	:	1.5	2.0	5.0	9.0	22.0				
		kg	:	1.2	1.2	2.3	2.5	4.2				
Model				(vi)	(vii)	(viii)	(ix)	(x)				
Cap	min	kg	:	SES - 15	SES - 22	SES - 30	SES - 40	SES - 50				
	max	kg	:	9.0	15.0	22.0	30.0	40.0				
Wt unit		kg	:	15.0	22.0	30.0	40.0	50.0				
		kg	:	4.5	9.0	9.5	10.5	11.2				
Model				(xi)	(xii)	(xiii)	(xiv)	(xv)				
Type			:	SLR - 5	SLR - 9	SRH - 22	SRH - 30	SRH - 45				
Cap	min	kg	:	Long Stroke	Long Stroke	Ratchet	Ratchet	Ratchet				
	max	kg	:	2.5	5.0	15.0	22.0	30.0				
Wt unit		kg	:	5.0	9.0	22.0	30.0	45.0				
		kg	:	6.5	7.0	11.0	11.5	13.6				
Model				(xvi)	(xvii)	(xviii)						
Type			:	SES - 1	SES - 2	SES - 3						
Cap	min	kg	:	Air hose	Air hose	Air hose						
	max	kg	:	0.25	1.0	2.5						
Wt unit		kg	:	1.5	2.0	5.0						
Air flow		cu m/min	:	1.2	1.2	2.3						
Hose stroke		mm	:	0.76	0.76	0.76						
		mm	:	1300	1300	1300						
2. Manufacturer/Supplier	: M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001											
Model				(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)
Cap		kg	:	50 T	50 T	50 T	50 T	50 T	50 T	235 T	235 T	235 T
Wt net		kg	:	1	2	5	10	20	50	10	20	50
Graduation		grams	:	4	4	4	4	14	14	2	2	4.8
Size dial		mm	:	5	10	20	50	100	200	50	100	200
		mm	:	178	178	178	178	230	230	152	152	230
Capacity		kg	:	50.1 to 100								
Manufacturer/Supplier	: M/s Powermaster Industrial Equipment Pvt. Ltd., Gala No 5 & 18, Rashmi Industrial Estate No.1, Dewan & Shah Udyog Nagar, Navghar, Vashi Road (East), Dsitt. Thane - 401 202											
Model				(i)	(ii)	(iii)	(iv)	(v)				
Type			:	SES-60	SES-70	SES-85	SES-100	SRH-60				
Cap	min	kg	:	-	-	-	-	Ratchet				
	max	kg	:	50	60	70	85	45				
Wt unit		kg	:	60	70	85	100	60				
		kg	:	12.6	13.2	25.0	27.5	14.0				
Capacity		kg	:	Above 100								
1. Manufacturer/Supplier	: M/s Powermaster Industrial Equipment Pvt. Ltd., Gala No 5 & 18, Rashmi Industrial Estate No.1, Dewan & Shah Udyog Nagar, Navghar, Vashi Road (East), Dsitt. Thane - 401 202											

M : Ore Preparation Machinery

Model		:	SES - 120					
Cap	.min	kg	:	100				
	max	kg	:	120				
Wt unit		kg	:	30.5				
2. Manufacturer/Supplier		:	M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001					
Model		:	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Capacity	kg	:	235T	235T	235T	235T	582T	582T
Weight net	kg	:	100	100	150	200	300	500
Graduation	grams	:	2	4.8	4.8	4.8	28	28
Size dia	mm	:	500	500	1000	1000	1000	2000
		:	152	230	230	230	460	460

(b) Automatic Weighing and Bagging Machines

1. Manufacturer/Supplier		:	M/s Power Build Ltd., Anand Sojitra Road, Vallabh Vidyanagar - 388 120, Gujarat					
Model		:	Gravity, belt screw feeder or vibrating feeder tray for net and gross weighing					
Range		:	Upto 600 Per hr					
Accuracy		:	± 80 or GMS Better					

(c) Belt Weighers

1. Manufacturer/Supplier		:	M/s Narne Tulman Manufactures Pvt. Ltd., Balanager Township, Hyderabad - 500 037					
			(i)	(ii)	(iii)	(iv)		
			Tulman flotronic					
			Tulman multiple idler weigh carriage					
			Tulman double idler weigh carriage					
			Tulman single weigh carriage					
2. Manufacturer/Supplier		:	M/s Power Build Ltd., Anand Sojitra Road, Vallabh Vidyanagar - 388 120, Gujarat					
Cap	tph	:	From a fraction of 1 to 10000					

(d) Crane Weighers

Manufacturer/Supplier		:	M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001					
Model		:	(i)	(ii)	(iii)			
Graduations	kg	:	991 T	992 T	993 T			
		:	500 x 2 & 1000 x 5	2000 x 5, 3000 x 10, 5000 x 25, 10000 x 50				
Suspension point L	mm	:	905, 805, 905 & 805	870, 930, 870 930, 870, 930, 930, 1020, 1960 & 1155			178	
Size dia	mm	:	508	457				
Wt approx	kg	:	49, 47, 49 & 47	138, 138, 162 & 170				
W	mm	:	581	522				
Cap	t	:	-	-			20	

M : Ore Preparation Machinery

(e) Weigh Feeders

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

Cap tph : From a fraction of tonne to 700

(f) Electronic weighing system

Manufacturer/Supplier : M/s Name Tulman Manufacturers Pvt. Ltd.,
Balanagar Township,
Hyderabad - 500 037

(i) Tulaman
(ii) Tulaman dynamic

(g) Electronic multi-idler belt weigher BMP

Manufacturer : M/s Jenson & Nicholson (India) Ltd., Supplier : M/s Protos Engg. Co. Pvt. Ltd.
Electronic Weighfeeders Division, 173, Jamshedjee Tata Road,
Plot No. 67-82, Tupudana Industrial Area, Churchgate,
Ranchi - 834 002 Mumbai - 400 020

Belt Speed m/sec : Over 2.5
Weigh L : 2000 mm, May vary depending on idler spacing
between 1800 mm and 2500 mm

(h) Road Transport - Weighbride

Manufacturer/Supplier : M/s Name Tulaman Manufacturers Pvt. Ltd.,
Balanagar Township,
Hyderabad - 500 037

Cap t : 5 to 100 standard
(Other cap upto 500 t on request)

Wt Indication : 5 digit led display in kg.

2. Manufacturer/Supplier : M/s Precision Equipment Co.,
Gajjar House, Astodia Road,
Ahmedabad - 380 001

			(i)	(ii)
Model			WBCS	WBMD
Type			Steelyard Indicator	Dial Indicator
Cap	t		10 to 60	-
W	mm		1960	1200
D	mm		300	300
H	mm		1375	2075

3. Manufacturer/Supplier : M/s Weighbird (India) Ltd.,
Chartered Bank Buildings,
4, Netaji Subhash Road,
Calcutta - 700 001

			(i)	(ii)	(iii)	(iv)	(v)
Type			Dial	Dial	Dial	Dial	-
Cap	Total	t	10, 10 & 15	20, 20 & 25	30	40 & 50	60
	Chart	t	5, 5	5, 10 & 5	6 & 10	10 & 10	20
Graduation		kg	20, 10, 10	10, 20, 10	10, 20	20, 20	50
Size	Platform	mm	3600 x 2400, 4800 x 2400	6000 x 2500 7500 x 3000	7500x3000, 9000x3000, 12000x3000	12000x3000, 14000x3000, 16000x3000	18000 x 3000

M : Ore Preparation Machinery

	(vi)	(vii)	(viii)	(ix)
Type	: Steelyard	: Steelyard	: Steelyard	: Steelyard
Cap	t : 10, 15	20, 25	30	40
Graduation				
Major bar	kg : 0 - 10000 x 500	0 - 20000 x 1000	0 - 30000 x 1000	0 - 40000 x 1000
Minor bar	kg : 500 x 2, 500 x 2	1000 x 5, 1000 x 5	1000 x 5	1000 x 5
Size platform	mm : 3600 x 2400,	6000 x 2500	7500 x 3000,	12000 x 3000,
	4800 x 2400,	7500 x 3000	9000 x 3000,	14000 x 3000,
			12000 x 3000	16000 x 3000

(i) Bin Level Measuring System

Manufacturer	:	M/s Jenson & Nicholson (India) Ltd., Electronic Weighfeeders Division, Plot 67-82, Tupudana Industrial Area, Ranchi - 834 002	Supplier : M/s Protos Engg. Co. Pvt. Ltd. 173, Jamshedjee Tata Road, Churchgate, Mumbai - 400 020
Type	:	Schenck	To measure and control the levels by pressure exerted on them

(j) Tension testing machines (Dynamometers)

Capacity t : upto 10

Manufacturer/Supplier : M/s Weighbird (India) Ltd.,
Chartered Bank Building,
4, Netaji Subhash Road,
Calcutta - 700 001

	(i)	(ii)	(iii)	(iv)	(v)	
Type	: Dial	Dial	Dial	Dial	Dial	
Cap	t : 0.02	0.05	0.1	0.2	0.3	
Wt net approx	kg : 3	3	4.2	9	9	
Graduation min	kg : 0.2	0.5	1	2	2	
	(vi)	(vii)	(viii)	(ix)	(x)	(xi)
Type	: Dial	Dial	Dial	Dial	Dial	Dial
Cap	t : 0.5	1	2	3	4	6
Wt net approx	kg : 10	10	12.5	20	25	32
Graduation min	kg : 5	10	20	20	25	50

(k) Spring Testing Machines

Capacity kg : Upto 1000

Manufacturer/Supplier : M/s Weighbird (India) Ltd.,
Chartered Bank Building,
4, Netaji Subhash Road,
Calcutta - 700 001

	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
Model	: 371	371	371	271 A	271 A	271 A	271 B	271 B
Cap load testing	kg : 0 - 2	0 - 10	0 - 20	0 - 300	0 - 500	0 - 1000	0 - 100	0 - 200
Graduation mingrams	: 10	50	100	500	1000	2000	200	500

M : Ore Preparation Machinery

(l) Steel Yard Portable Platform Scale

Manufacturer/Supplier		: M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001			
Model	:	(i) 511 T	(ii) 511 T	(iii) 511 T	(iv) 411 T
Type	:	Bar	Bar	Bar	Loose proportional weight
Cap	t	0.3	0.5	1	0.3
Wt net	kg	280	286	296	-
Graduation					
Major bar	kg	300 x 20	500 X 20	1000 x 50	-
Minor bar	kg	10 x 100	20 x 100	50 x 200	5 x 50
Size platform	mm	-	-	-	620 x 406

(m) Self Indicating Counter Scales

Manufacturer/Supplier		: M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001				
Model	:	(i) 150 TLP	(ii) 150 TPO	(iii) 150 TPO	(iv) 150 TPO	(v) 150 TPO
Cap	kg	1	2	5	10	20
Wt net	kg	22	40	40	40	40
Graduation	gram	5	10	20	50	100

(n) Self Indicating Platform Scales

Capacity	t	: Upto10					
Manufacturer/Supplier		: M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001					
Model	:	(i) 311 T	(ii) 311 T	(iii) 311 T	(iv) 311 T	(v) 311 T	
Type	:	Portable	Portable	Portable	Portable	Portable	
Cap	t	0.1	0.2	0.3	0.3	0.5	
Graduation	min	0.2	0.5	0.5	1	1	
Size platform	mm	787 x 787	787 x 787	787 x 787	787 x 787	787 x 787	
Dial	mm	610	610	610	457	457	
Model	:	(vi) 311 T	(vii) 311 T	(viii) 311 T	(ix) B 311 T	(x) B 311 T	(xi) B 311 T
Type	:	Portable	Portable	Portable	Bench	Bench	Bench
Cap	t	0.5	1	2	0.02	0.05	0.1
Graduation	min	1	2	5	0.05	0.1	0.2
Size platform	mm	914 x 914	914 x 914	914 x 914	533 x 533	533 x 533	533 x 533
Dial	mm	610	610	610	610	610	610

(o) Dormant Scales

Manufacturer/Supplier		: M/s Weighbird (India) Ltd., Chartered Bank Building, 4, Netaji Subhash Road, Calcutta - 700 001			
-----------------------	--	--	--	--	--

M : Ore Preparation Machinery

Model				(i)	(ii)	(iii)	(iv)
Type				D 311 T	D 311 T	D 311 T	D 311 T
				Self indicating platform	Self indicating platform	Self indicating platform	Self indicating platform
Cap		t		0.1	0.2	0.3	0.5
Graduation	min	kg		0.2	0.5	0.5	1
Size platform		mm		800 x 800	800 x 800	914 x 914, 1200 x 1500	1200 x 1200 1500 x 1500
Model				(v)	(vi)	(vii)	(viii)
Type				D 311 T	D 311 T	D 311 T	D 311 T
				Self indicating platform	Self indicating platform	Self indicating platform	Self indicating platform
Cap		t		1	2	3	5
Graduation	min	kg		2	5	5	10
Size platform		mm		1200 x 1200 1500 x 1500 1800 x 1200 1800 x 1500	1500 x 1500	1800 x 1200 1800 x 1500	1800 x 1800
Model				(ix)	(x)	(xi)	(xii)
Type				DD 311 T	DD 311 T	DD 311 T	DD 311 T
				Semi self indicating platform	Semi self indicating platform	Semi self indicating platform	Semi self indicating platform
Cap		t		1	2	3	5
Chart		t		0.5	1	1	1
Graduation	min	kg		1	2	2	2
Size platform		mm		1200 x 1200, 1200 x 1500, 1800 x 1500	1200 x 1200, 1500 x 1500, 1800 x 1500, 1800 x 1800	1200 x 1200, 1500 x 1500, 1800 x 1500, 1800 x 1800	1500 x 1500, 1800 x 1500 1800 x 1800, 2700 x 2100, 2700 x 2700
Model				(xiii)	(xiv)	(xv)	(xvi)
Type				D 511 T	D 511 T	D 511 T	D 511 T
				Steelyard platform	Steelyard platform	Steelyard platform	Steelyard platform
Cap		t		1	2	3	5
Graduation							
Major bar		kg		1000 x 50	2000 x 50	3000 x 100	5000 x 200
Minor bar		kg		50 x 0.2	50 x 0.2	100 x 0.5	200 x 1
Size platform		mm		1200 x 1200, 1500 x 1500	1500 x 1500, 1800 x 1500, 1800 x 1800	1500 x 1500, 1800 x 1500, 1800 x 1800	1500 x 1500, 1800 x 1500, 1800 x 1800

M IV (19) Wire Mesh Cloth

Manufacturer				M/s Precisa Wire Cloth Co. Pvt. Ltd., 86, Athipet, Chennai - 600 053	Supplier	M/s Swish Welded Mesh Co. Pvt. Ltd., A-7, Industrial Estate, Ambattur, Chennai - 600 058
Type				Stainless steel fine		
Mesh				4 to 300		
W		m		1.22		
Wire dia		mm		0.1930 / 0.1524 to 0.036		
Size opening		mm		0.2303 / 0.2709 to 0.050		
		Microns		230 / 271 to 50		
Area open approx %				29.8 / 41.2 to 34		

M IV (20) Rotex Sizers

Manufacturer/Supplier : M/s Sayaji Iron & Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat

Size mm : Upto 100 x 4000
In single, double or multiple
Deck construction and for separation
of finer particles

M IV (21) Rotary Scrubbers

1. Manufacturer/Supplier : M/s Sayaji Iron & Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat
: Rotary scrubbers

2. Manufacturer/Supplier : M/s Triveni Engg. Works Ltd.,
Goverdhan Road,
Mathura - 281 004,
Uttar Pradesh
: Attrition scrubbers

M IV (22) Vibrating Tube Mills

Manufacturer/Supplier : M/s Sayaji Iron & Engg. Co. Pvt. Ltd.,
Chhani Road,
Baroda - 390 002, Gujarat

Size dia mm : 200 to 600
L mm : 1500 to 3500
: Twin tube & three tube design highly efficient fine grinding mill which is a new
concept in grinding application

M IV (23) Centralied Lubrication Systems

1. Manufacturer/Supplier : M/s Delimon Protos (I) Pvt. Ltd.,
Thakur Niwas, 173, Jamshedjee Tata Road,
Churchgate, P. O. Box 11149,
Mumbai - 440 020

: Single line system
Dual line system
Multiline system
Micro fog system
Lube airmix lubrication
Spray lubrication system
Oil re-circulation system
Special system
Chain conveyor lubrication WS-E
Chain conveyor lubrication RK-C
Gear wheel lubrication NV-K
Crain rail lubrication KS-A
Wheel flange lubrication RE
Chasis lubrication