

O : Safety Equipment

O SAFETY EQUIPMENT

O (1) Respirators

1. Manufacturer/Supplier : M/s Industrial Components,
1, Acharya J. C. Bose Road,
1st Floor (Annexe),
Calcutta - 700 020
- | | | | | | | | |
|-----------------------|----|----|---|-----------|---------|--|--|
| | | | | | | | |
| Inhalation resistance | | | | (i) | (ii) | | |
| Initial | mm | WG | : | Dust Free | I - CEE | | |
| Final | mm | WG | : | 25 | 48 | | |
| | | | : | 30 | 48 | | |
2. Manufacturer : M/s Industrial Medical Engineers,
Caxton House, 2E, Rani Jhansi Road,
Jhandewalan, New Delhi - 110 055
- Supplier : M/s Jyoti Marketing &
Projects Ltd.,
Mumbai Shopping Centre,
R. C. Dutt Road,
Vadodara - 390 005, Gujarat
- | | | | | | | | |
|----------------------|-----|---|---|----------|--|--|--|
| Type | | | | | | | |
| Max fresh air supply | LPM | : | : | Arline | | | |
| Blower speed | rpm | : | : | 50 | | | |
| Hose Dia | mm | : | : | 50 | | | |
| L | mm | : | : | 25 | | | |
| Hose lead | m | : | : | 15 | | | |
| | | : | : | 50 to 60 | | | |
3. Manufacturer/Supplier : M/s Nanda Manufacturing Co.,
32 A, C. R. Avenue,
Calcutta - 700 012
- | | | | | | | | |
|------------|--|--|---|---------|---------|---------|--|
| | | | | | | | |
| Model | | | : | (i) | (ii) | (iii) | |
| Inhalation | | | : | DR 1001 | DR 2001 | DR 4004 | |
| Exhalation | | | : | Single | Two | Single | |
| | | | : | Single | One | Two | |

O (2) Breathing Apparatus

1. Manufacturer : M/s Industrial Medical Engineers,
Caxton House, 2E Rani Jhansi Road,
Jhandewalan, New Delhi - 110 055
- Supplier : M/s Jyoti Marketing &
Projects Ltd.,
Mumbai Shopping Centre,
R. C. Dutt Road,
Vadodara - 390 005, Gujarat
- | | | | | | | | |
|--------------|---------|---|---|--------------------------|-----------------------------|--|--|
| | | | | | | | |
| Model | | | : | (i) | (ii) | | |
| Type | | | : | Fenzy 67 MM | Fenzy 5000 | | |
| Cylinder cap | lit | : | : | Isolating Closed Circuit | Open Circuit Self Contained | | |
| Service PR | kg/sqcm | : | : | 175 | 1267 of Free Air | | |
| Duration | hr | : | : | 210 | 210 to 315 | | |
| Wt approx | kg | : | : | 3 to 4 | 30 min | | |
| H | mm | : | : | 124 | 14 | | |
| W | mm | : | : | 540 | - | | |
| | | : | : | 400 | - | | |

O : Safety Equipment

O (3) Self Rescuer

1. Manufacturer : M/s Industrial Medical Engineers, Supplier : M/s Jyoti Marketing & Projects Ltd.,
Caxton House, 2E Rani Jhansi Road, Mumbai Shopping Centre,
Jhandewalan, New Delhi - 110 055. R.C. Dutt Road,
Vadodara - 390 005, Gujarat

Type : Biocell - 1
Duration min : 30 to 100
Wt kg : Less Than 2
Dimension L mm : 170
H mm : 185

O (4) Fire Extinguishers

1. Manufacturer/Supplier : M/s Sefex Fire Services,
202 'A' Dhanraj Industrial Estate,
Sunmill Road, Lower Parel (West),
Mumbai - 400 013

Type		(i)	(ii)	(iii)	(iv)
		Safex Halon 1211	Halon 1211	Halon 1211	Halon 1211
Cap	kg	1, 1.25 & 2	4 & 5	25	50
Working PR	kg/sqcm	25	25	25	25
H	mm	250	540	550	1150
Dia	mm	80	100	255	300
Wt approx(empty)	kg	1.2 & 1.3	3.5	15	40
Hose	m	1	1/2	2	2
Valve		Standard Type & Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type	Squeeze Grip Type
Model		(v) SDP 1, SDP 2, SDP 3, SDP 5, SDP 10, SDP 22.5 SDP 70P, SDP 70 N		(vi) SCO ₂ 3, SCO ₂ , SCO ₂ 2, SCO ₂ 4.5, SCO ₂ 6.8	
Type		Dry Chemical Powder		CO ₂	
Cap	kg	1 to 250		2 to 22.5	
Discharge hose L	m	-		1	
Cap of fibre hose	kg	-		4.5 & 6.8	
Operation		Upright		-	
Model		(vii) SF 9, SMF9, SF 45/50		(viii) SA 9, SW 9, SA 45/50	
Type		Foam & Chemical Foam		Soda Acid & Water CO ₂	
Cap	lit	9, 50, 155		9, 50, 155	
Operation		-		Turn-Over or Upright	

2. Manufacturer/Supplier : M/s Steelage Industries Ltd.,
Minimax Division, Opp. P. O. Mazagaon,
Mumbai - 400 010

O : Safety Equipment

Model		(i)	(ii)	(iii)	(iv)	
Type		B Type	Water CO	PR Type	BOT Type	
Jet range	m	8 to 10	8 to 10	8 to 10	8 to 10	
Discharge time	sec	90 to 120	90 to 95	70 to 75	80 to 85	
Discharge quantity	%	97 to 97.5	95	96 to 97	98 to 100	
Model		(v)	(vi)	(vii)	(viii)	
Type		Minimax Dry Chemical Powder	Minimax Dry Chemical Powder	Minimax Dry Chemical Powder	Minimax Dry Chemical Powder	
Cap	kg	1	2	3.2	5	
Effective jet	L m	2 to 2.5	2 to 2.5	3 to 4	3 to 4	
Discharge time	sec	8 to 10	8 to 10	12 to 15	15 to 200	
Working PR	kg/sqcm	12.5	-	-	-	
Overall H	mm	350	385	440	500	
Body Dia	mm	76	98	131	149	
Wt charged	kg	3	4.6	8	11.3	
Gas cartridge contents	g	30	50	90	120	
Model		(ix)	(x)	(xi)	(xii)	
Type		Minimax Dry Chemical Powder	Minimax Chemical	Minimax	Minimax Dry Chemical	
Cap	kg	10	9	22.5	1	
Effective jet	L m	4 to 5	-	-	2 to 2.5	
Discharge time	sec	25 to 30	20 to 25	40 to 60	8 to 10	
Overall	H mm	570	1225	1400	350	
Body Dia	mm	172	140	200	76	
Wt charged	kg	18	20/29	40/69	3	
Gas cartridge contents	g	180	-	-	30	
Working PR	kg/sqcm	-	-	-	12.5	
Model		(xiii)	(xiv)	(xv)	(xvi)	(xvii)
Type		Minimax Dry Chemical	Minimax Dry Chemical	Minimax On Trolley	Minimax On Trolley	Minimax On Trolley
Cap	kg	1	2	3.2	2	3
Effective jet	L m	2 to 2.5	2 to 2.5	3 to 4	2.1	2.1
Discharge time	sec	8 to 10	8 to 10	12 to 15	14 to 16	16 to 18
Working PR	kg/sqcm	12.5	12.5	12.5	58 to 60	58 to 60
Gas cartridge contents	g	30	50	50	-	-
Overall H	mm	350	385	440 L	540	560
Body Dia	mm	76	98	131 (Shell)	108	141
Wt charged	kg	3	4.6	8	8.2	12.9
Model		(xviii)	(xix)	(xx)	(xxi)	(xxii)
Type		On Trolley Minimax	- Minimax	DCP 22.5 kg Minimax Dry Powder	DCP 70 kg Minimax Dry Powder	PD 150 Minimax Dry Powder
Cap	kg	4.5	6.8	22.5	70	70
Discharge time	sec	20 to 24	25 to 30	40/60	60/75	70/90
Range	m	-	-	4.6/6.2	6.2/7.7	6.2/7.7

O : Safety Equipment

Working PR	kg/sqcm	: 58 to 60	58 to 60	-	-	-
Overall H	mm	: 700	96	840	1250	1120
Body Dia	mm	: 141	141	270	330	440
Charged Wt	kg	: 18.4	25.25	-	-	-
Hose	mm	: -	-	100	300	300
CO ₂ bottle	kg	: -	-	1	2	3.2
Type			(xxiii)	(xxiv)	(xxv)	
Cap	lit	: 9	Mechanical AFF	Minimax BCF Foam	Minimax 'FS' foam	
Jet range	m	: 4 to 7		3 to 4	7 to 8	
Discharge time(with Jet exceeding 4m)	sec	: 35		15	-	
Total discharge time	sec	: 60		-	75 to 90	
Discharge quantity	%	: 95 to 98		85	98	
Overall H	mm	: -		350	-	
Shell Dia	mm	: -		100	-	

O (5) Fire Fighting Unit

Capacity	LPM	: Up to 3000
Manufacturer		: M/s Industrial Medical Engineers, Caxton House, 2E, Rani Jhansi Road, Jhandewalan, New Delhi - 110 055
Supplier		: M/s Jyoti Marketing & Projects Ltd., Mumbai Shopping Centre, R. C. Dutt Road, Vadodara - 390 005, Gujarat

Type		(i)	(ii)
		Aluminised La-If Pan Fire Suit (Panotex U.K.)	Felt Stainless Steel Thread
Wt	min kg/m	: 0.425	0.600
Withstands point square			
At 90°C for		: 4.5 Minutes	10 Minutes
At 700°C for		: 15.0 Minutes	25 Minutes
At 500°C for		: 5.0 Minutes	8 Hours
Breathability		: Impermeable	Moderate

2. Manufacturer/Supplier		: M/s Sefex Fire Services, 202 'A' Dhanraj Industrial Estate, Sunmill Road, Lower Parel (West), Mumbai - 400 013
---------------------------------	--	--

(a) Mobile Foam Units

Cap	Lit	: 100
------------	-----	-------

(b) Mechanical Foam Generators

Total water flow	LPM	(i)	(ii)	(iii)	(iv)
		: 177	191	205	225
Foam produced	LPM	: 1770	1910	2050	2250
Input PR	kg/sqcm	: 6	7	8	10
Running time approx					
Inductor set at 3		: 19 Minutes	17.5 Minutes	16 Minutes	14 Minutes
Inductor set at 6		: 11 Minutes	10.5 Minutes	10 Minutes	9 Minutes

O (6) Fire Pump

Capacity	LPM	:	Up to 2000			
1. Manufacturer/Supplier		:	M/s Steelage Industries Ltd., Minimax Division, Opp. P. O. Mazagaon, Mumbai - 400 010			
Type			(i) Portable Single Stage Centrifugal	(ii) Portable Single Stage Centrifugal	(iii) Portable Single Stage Centrifugal	(iv) Portable Single Stage Centrifugal Additional Features
Cap	LPM	:	275	365	545	Output LPM : 600, 550 & 475
PR	kg/sqcm	:	4	3.5	2.5	PR kg/sqcm : 2.5, 3.5 & 4.0
Suction lift	m	:	3	3	3	Suction lift M : 3
Working condition		:	Working Through 4.5 m Length of 75 mm Dia Suction Hose			Working Through 4.5 m Length of 75 mm Dia Suction Hose
Engine for portable fire pump			Verticle, Single Cylinder Compression Ignition, Air Cooled, Four-Stroke, High Speed Diesel Engine			Overall Dimensions L mm : 3000 W mm : 1700 H mm : 1560 Wt kg : 1051
Overall dimensions L	mm	:	680			
W	mm	:	500			
H	mm	:	720			
Wt	kg	:	105			
Type		:	(v) Fire Trailer Single Stage Centrifugal	(vi) Fire Trailer Single Stage Centrifugal	(vii) Fire Trailer Single Stage Centrifugal	
Cap	LPM	:	720	1450	1800	
PR	kg/sqcm	:	7	8.8	7	
Suction lift	m	:	7	3	3	
Working condition		:	Working Through 4.5 M Length of 100 mm Dia Suction Hose	Working Through 4.5 m Length of 100 mm Dia Suction Hose with Suction Strainer		
Type of engine		:	High Speed, 4 Cylinder Diesel Engine of Matching Characteristics			
Cap	LPM	:	(viii) 900	(ix) 1800	(x) 2250	
Type		:	Single Stage	Single Stage	Single Stage	
PR	kg/sqcm	:	7	8.8	7	
Pump speed	rpm	:	2600	2650	2600	
Suction lift	m	:	7	3	3	
Working condition		:	When Working Through R Lengths of 2.45 m Long Suction Hose At 22 °C Temperature	When Working Through 2 Lengths of 2.45 m Long Suction Hose At 22°C Environmental Temperature		

O (7) Water Fire Tender

1. Manufacturer/Supplier : M/s Steelage Industries Ltd.,
Minimax Division,
Opp. P. O. Mazagaon,
Mumbai - 400 010
- Type : B
Chassis : Tata LPT 1210 E or 1210 SE or Lay & 'Comet Haulage' ALCO 3/2
Wheel base mm : Not More Than 4500
Turning circle m : Not More Than 20
Road clearance mm : Not Less Than 260
Overall W m : Not More Than 2.50
Engine : In - Line 6 Cylinder Water-cooled, Direct Injection Diesel Engine - 110 BHP
Electric system : 2V, 25A Cap Dynamo
: 12V Battery of 180 AH

O (8) Monitors

1. Manufacturer/Supplier : M/s Sefex Fire Services,
202 'A' Dhanraj Industrial Estate,
Sunmill Road, Lower Parel (West),
Mumbai - 400 013
- | | | | | |
|----------------|---------|--|-------------------|-----------------|
| Type | | | (i) | (ii) |
| Flow rate | LPM | | Foam Water SF - 7 | Super Jet Water |
| Range rotation | | | 20,000 & 4,000 | 2,700 |
| Water PR | kg/sqcm | | 45° | 360° |
| Foam jet | L m | | 10 to 12 | 7 |
| Vertical jet | L m | | 55 to 65 | - |
| Horizontal jet | L m | | - | 25 to 30 |
| Elevation | | | - | 50 to 55 |
| Water jet | L | | 65 & 80 | + 105° - 20° |
- Monitor Rotates in Any Direction
2. Manufacturer/Supplier : M/s Steelage Industries Ltd.,
Minimax Division,
Opp. P. O. Mazagaon,
Mumbai - 400 010
- Type : Water
Flow rate lit : 2,700 at 7 kg sqcm
Range rotation : 360°
Flexibility : Elevation : + 105° - 20°
Vertical jet L m : 25 to 28
Horizontal jet L m : 50 to 55

O (9) Trolleys (Foam and Soda Acid)

- Capacity** lit : Up to 200
1. Manufacturer/Supplier : M/s Steelage Industries Ltd.,
Minimax Division,
Opp. P. O. Mazagaon,
Mumbai - 400 010

O : Safety Equipment

		(i)	(ii)	(iii)	(iv)
Type		Foam	Foam	Acid Soda	Acid Soda
Cap	lit	45	153	45	153
Discharge L	M	26.6/11.6	13.3/16.6	8.3/10	16.6/20
Discharge time	sec	90/120	180/210	100/135	210/240
Hose	m	-	-	3	10
Wheels		-	-	254 mm	1.5 m Iron Rimmed
				Rubber Tyred	
H	mm	-	-	1117.6	2053.6
Dia	mm	-	-	304.8	406.4

O (10) Mechanical Foam Generators

Capacity : lit / min : Up to 5000

1. Manufacturer/Supplier : M/s Sefex Fire Services,
202 'A' Dhanraj Industrial Estate,
Sunmill Road, Lower Parel (West),
Mumbai - 400 013

		(i)	(ii)
Model		SFG - 5	SFG - 10
Type		Mechanical Foam	Mechanical Foam
Foam cap	LPM	1800	4000
Water cap	LPM	250	550
PR	kg/sqcm	10	10
Overall L	mm	600	750
		Also Available in Model SF SX, SFB 10, Sfb 10 X.	

O (11) Helmets

1. Manufacturer/Supplier : M/s Industrial Components,
1, Acharya J. C. Bose Road,
1st Floor (Annex),
Calcutta - 700 020

Type		"Tortoise" High Density Polythelene Industrial Safety Helmets
Medium size	mm	540 to 590 : Approved By DGMS
Type		"Tortoise" Mark II Industrial Safety Helmets are Manufactured from Superior Grade of High Density Polythelene & also from ABS Plastic

2. Manufacturer/Supplier : M/s Sefex Fire Services,
202 'A' Dhanraj Industrial Estate,
Sunmill Road, Lower Parel (West),
Mumbai - 400 013

Type		Safex Fire Men's Helmet
------	--	-------------------------

O (12) Safety Rubber Canvas Boots

1. Manufacturer/Supplier : M/s Swastik Rubber Products Ltd.,
Swastik House, Khadi
Pune - 411 003

Type		Safety Rubber Canvas Boots
------	--	----------------------------

O : Safety Equipment

O (13) Safety Belts

1. Manufacturer/Supplier : M/s Nanda Manufacturing Co.,
32 A, Chittaranjan Avenue,
Calcutta - 700 012
- Safety belts and harnesses (i)
Type : Waist Safety Belt Type -1 approved By DGMS
Safe drop max cm : 60
- (ii)
Type : General Purpose Harness Safety Belt Type-2
Safe drop max cm : 180
- (iii)
Type : Main Hoisting Belt Type - 3
Safe drop max cm : 60
- (iv)
Type : Lineman Pole Safety Belt Type - 4
Safe drop max cm : 60

O (14) Resuscitator

1. Manufacturer : M/s Industrial Medical Engineers, Supplier : M/s Jyoti Marketing &
Caxton House, 2E, Rani Jhansi Road, Projects Ltd.,
Jhandewalan, Post Box No.5706, Mumbai Shopping Centre,
New Delhi - 110 055 R. C. Dutt Road,
Vadodara - 390 005, Gujarat
- (i)
Model : LA - IF
Cap & Dia :
Adult : 700 ML 10 CM
Child : 400 ML 8 CM
Infant : 150 ML 5 CM
Respiratory strokes : 15 to 20 per min
Wt :
Adult : 0.420 kg
Child : 0.325 kg
Infant : 0.260 kg

O (15) Accessories

1. Manufacturer/Supplier : M/s Steelage Industries Ltd.,
Minimax Division, Opp. P. O. Mazagaon,
Mumbai - 400 010
- i) Water tank
Cap lit : 3000
Overall L m : 7.6
W m : 2.5
H m : 2.95
- ii) Fire bell
Dia mm : 250
Make : Brass
Wt approx kg : 10

O : Safety Equipment

- iii) Siren : Battery Operated
- iv) Search light : Adjustable to Give Flood or Beam Light
Mounted on the Middle of the Body on Top
- v) Spot light : Adjustable
- vi) Instrument panel
and locker lights
- vii) Suction hose Dia x L : 100 mm x 4.5 m
: 75 mm x 4.5 m
- viii) Suction strainer
Dia mm : 100 and 75
- ix) Basket strainer
Dia mm : 100 and 75
- x) Suction wrench
Dia mm : 100 and 75
- xi) Manila rope
Dia x L : 15 mm x 15 m
- xii) Delivery hose
Dia x L : 63 mm x 15 m
- xiii) Branch pipe with nozzle
- xiv) Adaptors and blank caps
- xv) Safex double male
double female
male instantaneous
- xvi) Blank cap for male and
instantaneous blank for female
- xvii) Hose coupling Safex instantaneous
female to standard female thread
instantaneous type male and female
- xviii) Fire men's AXE with life line pouch
- xix) Stirrup pump
- xx) Fire hydrants
Safex Single outlet,
Double outlet
- xxi) Hose cabinet
- xxii) Fire bucket
Cap : 9 litre
: Made of 24 - Gauge Steel Sheet all Joints are Lapped
- xxiii) Swinging Hose Reel
 - (a) Hydraulic Rubber Braided
 - Dia : 18 mm
 - L : 36 m
 - (b) Mildsteel Pressed Swing Upto 170°
- xxiv) ABS nozzle, busing and packing glands
- xxv) Gate valve 25 mm
- xxvi) Wall brackets with U-shaped reel carrier made of cast Iron
- xxvii) Throw of water : 12.20 Or 13.72 m at 42 kg/sqcm
 - Dimensions W : 800 mm, Complete Swing of Reel 170°
 - Ht : Overall 636.6 mm Projection From Wall
 - Wt : 242.50 kg (with all Fittings and Hose)
 - Finish : Red and Black Enamelled Paint and Bright Parts Chromium plated

O : Safety Equipment

xxviii) Minimax Hose Box	:	18 Gauge Mild Steel		
	:	Hose Box of 762 mm x 605.6 mm x 294 mm		
	:	Two Hose Lengths of 15 m Each and one Branch Pipe with Locking Arrangements		
xxix) Valves	:	Fire Hydrant Gunmetal Valves 63 mm Outlet		
Type	:	Oblique		
	:	Wall Downward		
	:	Straightway		
	:	Wheel Valve Pattern		
	:	Double-Headed		
xxx)	:	Couplings		
	:	Gunmetal Couplings 65 mm Inlet		
Type	:	Dividing Control		
	:	Instantaneous Pattern		
	:	Collecting		
	:	Double Female		
	:	Double Male		
	:	Blank Cap Male		
xxxii) Branch pipes				
Model	:	(a) FB - 5 X	(b) FB - 10	(c) FB - 10 X
Type	:	Foam Making	Foam Making	Foam Making
Optimum Operating PR	kg/sqcm	6.3 to 7	6.3 to 7	-
Wt	kg	2.6	4.2	7.4
L	mm	470	914	813
xxxii) Nozzles				
1. Manufacturer/Supplier	:	M/s Sefex Fire Services, 202 'A' Dhanraj Industrial Estate, Sunmill Road, Lower Parel (West), Mumbai - 400 013		
Type	:	Safex FOG		
	:	Jumbo FOG		
2. Manufacturer/Supplier	:	M/s Steelage Industries Ltd., Minimax Division, Opp. P. O. Mazagaon, Mumbai - 400 010		
Type	:	FOG Nozzle		