

## J : Mine Supports

### J I MINE ROOF SUPPORT SYSTEM

1. Manufacturer/Supplier : M/s Manoj Industries,  
20/218, Kandra Industrial Area,  
P.O. Govindpur, Dist. Dhanbad, Bihar

**(a) Hydraulic Set Telescopic Prop**

Load Bearing cap t : 10  
Bottom Piece Dia mm : 114  
Telescopic Piece Dia mm : 100  
As per CMRS Design

**(b) Triangular Steel Chock**

Load Bearing cap t : 5  
Working H m : upto 4.5  
Pipe Dia mm : 75  
As per CMRS Design

**(c) Square Steel Chock**

Load bearing cap t : 40  
Chock H m : upto 4.5  
Chock frame mm : 900 x 900  
As per CMRS Design

**(d) Pit prop**

Load bearing cap t : 20  
Prop H m : upto 4.5  
Pipe dia mm : 100  
As per CMRS Design

**(e) Screw prop**

Load bearing cap t : 5  
Pipe dia mm : 115  
As per CMRS Design

**(f) Recoverable bolt**

Holding cap t : 5  
As per cmrs Design

**g) Roof Bolt**

Anchorage strength t : 10  
As per CMRS Design

2. Manufacturer/Supplier : M/s MICON Engineers,  
25, Netaji Subhash Road,  
Calcutta - 700 001.

**(a) Immediate roof support**

- (1) Screwprop
- (2) Pit prop
- (3) Square chock

**(b) Slip load tester**

**(c) Hydraulic load cell**

**(d) Hydraulic set/friction prop**

**(e) Rock/Roof bolting instrumentation**

**(f) Extensometer - multipoint rod type**

**(g) Convergence indicators**

- (1) Suspension type
- (2) Telescopic type

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- (h) Chock release device
- (i) Rock/Roof bolts
  - (1) Slot & wedge bolts
  - (2) Expansion shell bolt
  - (3) Perfo (Grout) Bolt
  - (4) Resin bolt
  - (5) Resin capsule
  - (6) Inorganic (Cement) capsule
  - (7) Recoverable bolt

- (j) Pit prop withdrawer (sylvester type)

3. Manufacturer/Supplier : M/s Nanda Manufacturing Company,  
32, A. C. R. Avenue,  
Calcutta - 700 012.

- (a) Immediate Roof Supports
  - (i) Safety Pit Drops
  - (ii) Safaru Clamps
  - (iii) Recoverable Bolts
  - (iv) Triangular Chocks

- (b) Roof/Rock Bolts
  - (i) Slot & Wedge Bolts - IS : 7578 - 1975
  - (ii) Expansion Shell Bolts - IS : 8266 - 1976
  - (iii) Perfo Bolts (Grout Bolts)
  - (iv) Resin Bolts with Capsule
  - (v) Split Set Bolts
  - (vi) Recoverable Bolts
  - (vii) Cement Inorganic Capsules

- (c) Sylvesters

- (d) Hydraulic Prop Setters  
Approved by DGMS

- (e) Link Bars  
Cap t : 40  
Approved by DGMS

- (f) Chock Release Devices  
Pit Prop Withdrawers as per IS : 2429 (Part 1) 1970

4. Manufacturer/Supplier : M/s Tata Iron & Steel Co. Ltd.,  
Tata Centre, 43, Chowringhee Road,  
Calcutta - 700 071.

Using Steel Pit Props		(i)	(ii)	(iii)	(iv)	(v)
Type	:	'B'	'B'	'A'	'B'	'A'
Cap	t	4.6	6.0	7.3	7.8	9.5
H	m	3.7	3.1	3.7	2.5	3.1
Nature	:	Steel Pit Prop	Steel Pit Prop	Steel Pit Prop	Steel Pit Prop	Steel Pit Prop

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Using Steel Pit Props		(vi)	(vii)	(viii)	(ix)
Type	:	'B'	'C'	'C'	'C'
Cap	t	11.2	21.0	26.0	31.5
H	m	2.5	3.7	3.1	2.5
Size	mm	-	-	-	-
Nature	:	Steel Pit Prop	Steel Pit Prop	Steel Pit Prop	Steel Pit Prop
Using Cog Stools		(i)	(ii)	(iii)	
Type	:	'A'	'B'	'C'	
Cap	t	20.8	30.0	35.3	
Dimensions	mm	900x900x900	900x900x900	900x900x900	
Nature	:	Fixed	Fixed	Dismantlable	

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