



The Singareni Collieries Company Limited
(A Government Company)
KOTHAGUDEM COLLIERIES – 507 101
Khammam District, Andhra Pradesh, (India)

TENDER DOCUMENT
For
Procurement of Mobile Breaker Line Support

ENQUIRY NO.
Dated

TENDER CLOSING DATE:
TENDER OPENING DATE:



THE SINGARENI COLLIERIES COMPANY LIMITED
(A GOVERNMENT COMPANY)

Technical Specifications Of Mobile Breaker Line Support for Short Wall Technology of RKNT MINE of SRP Area.

1.0	GENERAL DESCRIPTION AND SERVICE CONDITIONS.
2.0	The Breaker Line Support should be of Approved by DGMS, Dhanbad, India , as a unit, including all its components like Hoses, and other safety requirements etc to operate in Indian Coal Mines
3.0	The machine should have the following arrangements:
3.1	The required Hydraulic power for crawler motors and the support legs can be drawn from the Power pack system of the working short wall face (with 5:95 emulsion oil)
3.2	The machine should be a hydraulic driven crawler mounted on either side with the following features.
a	An independent drives for Right Hand and Left Hand tracks of adequate capacities.
b	Provided with fail-safe brake and automatic hydraulic tensioning arrangement.
c	Provided with Wider grouser pads, so that the ground pressure shall not exceed 26 Kg / Sq. cm.
d	To travel in the galleries of minimum of 1.8 M height and 4.0 M wide.
3.3	Should have good maneuverability and stability with sufficient ground clearance.
3.4	Should be able to work in gradient up to 1 in 4.2.
3.5	Should have adequate braking capacity to stop rolling down on slope while moving or when parked.
3.6	Pressure line/return line filters should be provided in the circuit to maintain clean hydraulic fluid.
3.7	The Breaker support should be provided with stabilizer unit so that Breaker support with the help of stabilizer unit can be lifted for maintenance purpose.
3.8	The life of individual components like Hyd motors, Gear Boxes, Crawler/Track chain, Legs, Rams shall be furnished.
3.9	The machine should be guaranteed for a minimum of 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.
3.10	Training shall be provided for 2 weeks for operators & maintenance Fitters and Electricians, at SCCL Mine after commissioning of the equipment
3.11	Services engineer inspections for periodical maintenance during Warranty
4.0	Spares
4.1	The machine should be suitable for oils and lubricants of Indian makes like IOC etc. Oil and lubricants required for 1 year operation shall be submitted along with offer. Initial fill of oils and lubricants should be supplied along with the machine.
4.2	Spares & Consumables except oil & Lubricants required during warrantee should be supplied with equipment.
4.3	List of spares required for 1 year of operation after warranty should be offered separately.

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5.0	SAFETY FEATURES.		
5.1	The Breaker support operating arrangements should be through radio remote operations which are provided at far end.		
5.2	Fail safe brake to prevent rolling down the equipment either while in operation or in parking condition.		
5.3	Swivel frame to support the lemniscates		
5.4	Transfer of roof loads to the floor through track assembly		
5.5	Chain Curtains and steel plate to prevent goaf intrusion		
5.6	Front Clearing plough		
5.7	Flexible Canopy.		
5.8	Radio Remote control operation.		
6.0	Main Dimensions, Technical & Important data		
	Description	Unit	Approximate Dimensions
6.1	Overall width	mm	Around 2200
6.2	Overall length	mm	Around 4700
6.3	Transport Height	mm	Max 1800
6.4	Ground clearance	mm	About 250
6.5	Ground pressure	Kg/cm ²	About 26
6.6	Tramming Speed (minimum)	Mtrs/Min	min 10
6.7	Approx. Overall Weight (around)	T	30
6.8	Type		Crawler mounted
6.9	Capacity of support:	Not less than 600T, 4 legged.	
6.10	Operating Range :	2.2 Mtrs to 3.6 Mtrs.	
6.11	Closed and Open Height	1.8 Mtrs to 3.8 Mtrs	
6.12	Setting load	90% of yield Load.	
6.13	Canopy should be provided with	Knuckled flipper that allows support along with the top of the seam	
6.14	Operating fluid	Emulsion (5% oil, 95% water) /DGMS approved fire resistance hydraulic oil equivalent to Indian make oils .	
6.15	Leg System	Each leg should have one pilot operated non-return valve one yield valve and one pressure gauge	
	Scope of Supply : DGMS approved Breaker Line Support with above specifications to work in under ground Coal mines,		
	Mechanical - ISO Standards/BIS Standards		
	DGMS approval should be submitted before dispatch of the support		

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