



The Singareni Collieries Company Limited
(A Government Company)
Adriyala Project Area -505212

Ref.No:APA/PD/EOI/ALP/2025

Date:09.06.2025.

**INVITATION FOR “EXPRESSION OF INTEREST (EOI)” FOR PROCUREMENT OF FAN
MOTOR FOR MAIN MECHANICAL VENTILATOR FOR ALP MINE, APA**

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1. ABOUT SCCL:

The Singareni Collieries Company (SCCL) is a Government company with equity participation of 51% by Government of Andhra Pradesh and 49% by Government of India. The Company's mining operations in Godavari Valley Coalfield, extended in six districts of Telangana State.

Godavari Valley Coalfield is having a strike length of 350 km and covers an area of 17,000 square km. The coal reserves are of non-coking and bituminous type.

SCCL supplies coal to a diverse customer base ranging from power utilities, cement plants, captive power plants and pharmaceutical companies to small sector units like brick kilns etc. About 80% of its coal production is linked to power plants situated in the states of Telangana, A.P., Maharashtra and Karnataka.

SCCL is a profit making company and is paying dividend to its shareholders for the last 20 years.

Location:

Adriyala Longwall Project Mine(ALP Mine) of M/sSingareniCollieries Company Limited (SCCL) is an underground mine located towards south side of Ramagundam Coal Belt in Adriyala Longwall Project Area. The area falls in Peddapalli district of Telangana State (India) in Godavari Valley Coalfields.The area of the present Adriyala Longwall Project Mine is 14.25Sq.km.ThemineliesbetweenNorthlatitude18°36'50"to18°41'17" and East longitude of 79°33' 54" to 79°36' 42". It covered by Survey of India Topo Sheet No. 56N/10. The nearest railway station is Ramagundam on Kazipet – Ballarsha railway line, which is about 24km away from the mine. Peddapalli the district head quarter is about 20km away from the mine.

2. Technical terms and conditions for the above subject mentioned in below pages:

Annexure-I

Specification of 550V Flame Proof Squirrel Cage Induction Motor (LT) for Ventilation Fan Duty.

Particulars of TEFC horizontal foot mounted Squirrel cage induction motor for Ventilation Fan duty for underground coal mines as per IS :325/1978 are as given below:

Make of Motor: ABB/WEG/LEROY SOMERS or Equivalent.

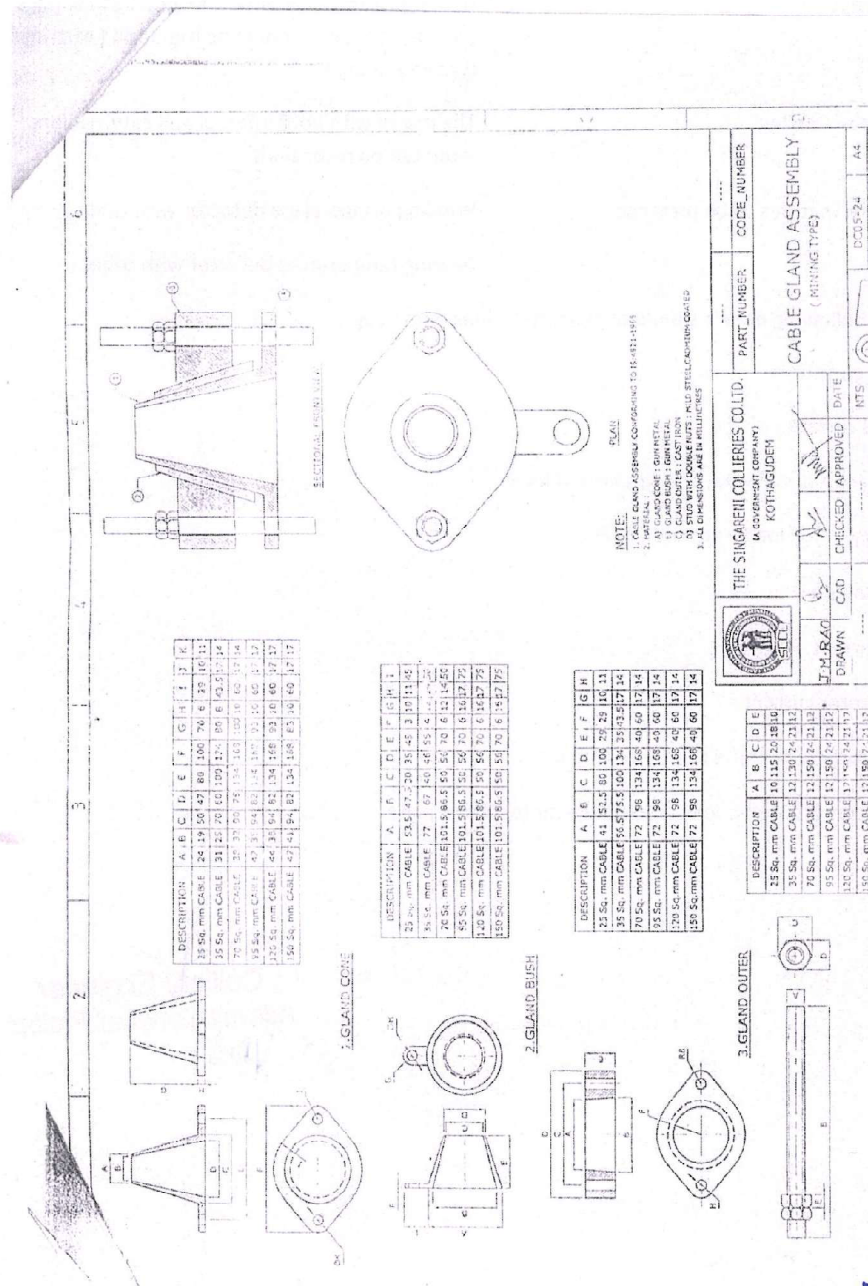
1. Site and operating conditions : For tropical and humid atmosphere for operation in Coal Mine with dust moisture and humidity.
2. Reference to IS specification.
The motor should conform to the latest issues of following IS specifications
 - i. IS 325 - For performance
 - ii. IS 1231 - For dimensions.
 - iii. IS 1271 - For classification for insulating material.
 - iv. IS 2253 - For type of construction and mounting.
 - v. IS 3043 - For earthing.
 - vi. IS 4029 - For testing.
 - vii. IS 4691 - For degree of protection.
 - viii. IS 4728 - For terminal markings.
 - ix. IS 4921 - For cable gland and cable sealing boxes
 - x. IS 4889 - For efficiency.
3. Type of enclosure : Totally enclosed fan cooled, degree of protection IP-55 to IS 4691 with anti-corrosive paint.
4. Type of Duty : Continuously rated suitable for driving a Ventilation fan
5. Frequency in Hz : 50 Hz
6. Number of Phases : 3


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Adriyala Longwall Project

7. Mechanical output in KW : 400
8. Frame size : 400
9. Stator rated Voltage : 550 V
10. Class of insulation : Stator Class "F"
11. Speed in revolution per minute approx. at : 750
rated output
12. Direction of rotation : Forward / Reverse
13. The max. cooling air temperature in : 45o Centigrade.
which the motor is intended to work
14. Max. permissible temperature rise of : Should not exceed 75oC over an ambient temp. of 45oC
motor required, if different from this by thermometer method.
standard.
15. System earthing. : Neutral of supply restricted earthed. Equipment should
be earthed as per I.E. Rules.
17. Particulars of test required and when they: All type and routine tests as per IS at the time of supply.
are to be carried out.
18. Rotor whether squirrel cage or slipring : Squirrel cage (double).
19. Stator connections : Delta.
20. The motor is required to operate with variation in speed applicable with VSD drive.
21. Type of Mounting . : Horizontal foot mounting.
(a)
- (b) Details of drive : Direct Drive.
22. Method of starting to be employed : VSD (Variable speed drive)
23. Method of reversing : By reversing the stator supply through VSD Control
panel.
24. Starting torque as percentage of full load : 200%
torque
25. Pull out torque as percentage of FLT : 300%
26. Cable boxes and cable glands :


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One cable terminal & sealing boxes being suitable for compound filling and preferably elbow type with the plane of partition of 45 Deg. To the axis generally conforming to IS 4821/1968 and each with two nos. double conical cable gland with two inner brass cones (one cone having a provision for earthing) and one outer CI cone gland for armour clamping. The Cable glands shall be as per SCCL drawing (here under)



The position of the Terminal box shall be on the top of the motor for stator.

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|-----|----------------------------------|---|---|
| 27. | Size of Cable for stator | : | 2 X 150 Sq.mm. |
| 28. | Details of shaft extension | : | Standard shaft extension as per IS 1231/1974. |
| 29. | Bearings | : | Heavy duty roller on drive end and ball bearings on non drive end , should be mounted (cartridge type mounting.) |
| 30. | Type of Cooling | : | The motor with both internal and external fans mounted on rotor shaft. |
| 31. | Special features to be provided. | : | Winding temperature detector with cable.
Bearing temperature detector with cable. |

Note: The following details should be furnished along with Supply

1. No load current.
2. Full load current.
3. Power factor at full load, $\frac{3}{4}$ load and half load.
4. Efficiency at full load – around 94.0%.
5. Rotor voltage -
6. Rotor current.
8. Locked rotor current.
9. Locked rotor with stand time (Hot & Cold).

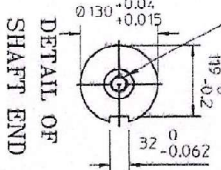
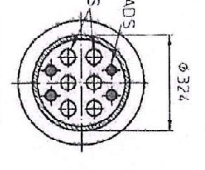
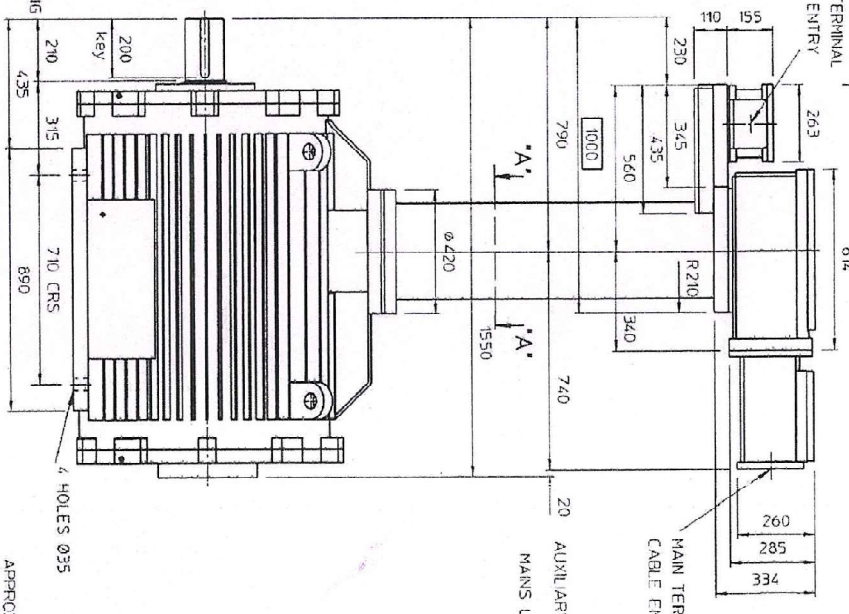
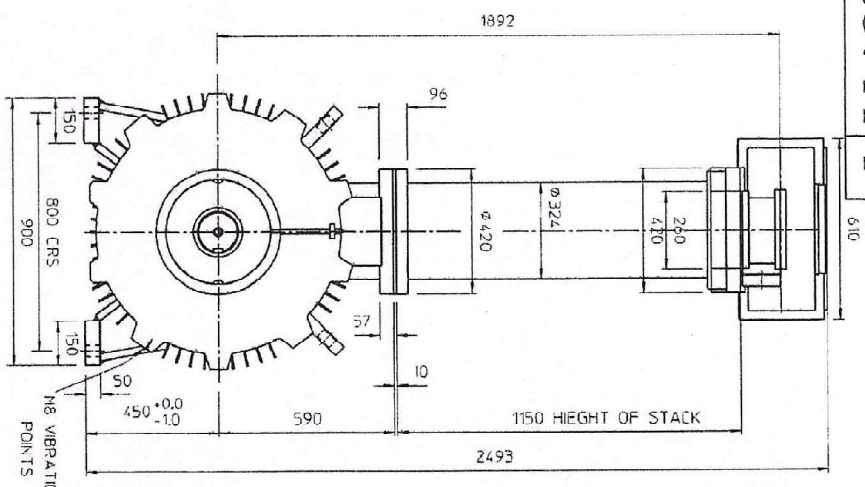
Efficiency of motor to be indicated on the motor Name plate.


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DRAWING NO. **3-28744** ISSUE **F**

IF IN DOUBT ASK DO NOT SCALE

SIMILAR TO DRG NO. 3-26450



F	20.7.2010	FINAL REVISIONS BY 604	PROVISIONAL DRAWING	OUTLINE OF HM62 SIZE E450/710 HOR FT MTD FLIP MOTOR	DRAWN G.H.	ISSUE
E	9.6.2010	REVISION OF STACK HEIGHT BY 604	YOUR REF:		APPROVED P.J.R.	
D	27.5.2010	REVISION OF MOTOR FRAME BY 604	OUR REF:		DATE 29-APR-2010	
C	26.5.2010	REVISION OF MOTOR FRAME BY 604	100354/355		SCALE 1:12.5	
B	2.5.2010	REVISION OF MOTOR FRAME BY 604	ALL DIMENSIONS IN MILLIMETRES UNLESS INDICATED OTHERWISE.			
A	18.5.2010	REVISION OF MOTOR FRAME BY 604	TOLERANCES UNLESS OTHERWISE STATED ±			
ISSUE	DATE	CHANGE	RATING	MCR		

MORLEY
BRADFORD RD, LEEDS, LS28 6QA, UK
Aditya Longwall

The qualified and interested bidders shall respond and submit their expression of interest in the Format furnished as attachment (ANNEXURE) on or before 16.06.2025 at the following address and may also contact at the following address for further details:

General Manager, Adriyala Project Area
The Singareni Collieries Company Limited,
E-mail id: gm_adriyala@scclmines.com
Website: www.scclmines.com

NOTE:A Vendor meet will be organized with all the interested Firms expressed their interest and the detailed scope will be firmed up accordingly. The exact date and venue will be informed to the firms through their respective mails. Firms are supposed to give a PPT (not more than 10 mins) regarding their experience in the related field, capabilities, credentials and technology details.

ANNEXURE

FORMAT FOR SUBMISSION OF 'EOI'

Date:

Subject: INVITATION FOR “EXPRESSION OF INTEREST (EOI)” FOR **PROCUREMENT OF FAN MOTOR FOR MAIN MECHANICAL VENTILATOR FOR ALP MINE, APA** – Reg.

- 1) Name of the Firm :
- 2) Permanent Address :
- 3) Address for correspondence :
- 4) Telephone No. :
- 5) Fax No. :
- 6) E-Mail :
- 7) Official Website :
- 8) Name of the Contact Person :
- 9) Mobile No. of the Contact Person :
- 10) Nature of Business of the Firm :
- 11) Experience in the related field :
- 12) Any other relevant information :

Signature of Authorized Signatory with Seal