

Speed Post



5-29020/09/181(3)/A/2013/EHQ  
भारत सरकार/Government of India  
श्रम एवं रोजगार मंत्रालय  
Ministry of Labour & Employment  
आम सुरक्षा महानिदेशालय/  
Directorate General of Mines Safety



No. 321/220

/EHQ, dated the

26/7  
10-02-2016

From:  
Director General of Mines Safety  
Directorate General of Mines Safety  
P.O & Distt: Dhanbad - 826 015.

To:  
Shri M.G. Rao -Whole Time Director  
M/s. EIMCO ELECON (India) Ltd.  
Arand Sojitra Road  
Vallabh Vidyanagar-388 120 (Gujarat).

Sub:- DGMS Approval under Regulation 181(3) of the Coal Mines Regulations, 1957 for Flameproof and Intrinsically safe electrical equipment associated with Model 621 SDL (As per Annexure-B) manufactured by M/s. Eimco Elecon (India) Ltd., Vallabh Vidyanagar, Gujarat for use in belowground Coal Mines.

IDENTIFICATION MARK  
DGMS APPROVAL No. ....320....of 2017

Dear Sir,

Based on performance report received from Director (F&M), M/s. South Eastern Coalfields Ltd., I hereby accord approval for Model 621 SDL associated with Flameproof and Intrinsically Safe electrical equipment (as per Annexure B) for a period of **five (05) years from the date of issue of this letter** for use in belowground coal mines in India, subject to compliance with the conditions mentioned in Annexure-A.

The application for renewal should be made at least three (03) months before the date of expiry of the approval.

Yours faithfully,

(Rahul Guha)  
Director General of Mines Safety

Encl : Annexure A&B

ANNEXURE-B

DGMS Approval No. 720 of 2017 issued by Directorate's Letter No. 321/200 /EHQ dated 10-02-2017

Conditions for Approval under Regulation 181(3) of the Coal Mines Regulations, 1957 for Flameproof and Intrinsically safe electrical equipment associated with Model 621 SDL (As per Annexure-B) manufactured by M/s. Elmco Elecon (India) Ltd., Vallabh Vidyanagar, Gujarat for use in belowground Coal Mines.

1. (i) Every Model 621 SDL shall carry conspicuously in a permanent manner the aforesaid identification mark, i.e. "DGMS APPROVAL NO. 720 of 2017 issued by Directorate's Letter no. 321/200 /EHQ dated 10-02-2017"

In addition, every machine shall also carry permanently this Directorate's approval mark.



- (i) in the nameplate marking shall be in accordance with the applicable requirements of the relevant standards.
2. The relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 shall be complied with in all matter relating to the installation, operation and maintenance of the equipment.
3. The electric supply to the machine shall be controlled and protected by DGMS approved flameproof Gate-end-Box of suitable rating and having requisite protective devices.
4. All covers, doors/access covers of the electrical equipment mounted on the machine, the opening/removal, which may expose live internal conductors, shall have warning instructions either by raised lettering or by other suitable means against such opening/removal of covers, doors and access covers without isolating supply of energy to the equipment from its source.
5. The plug and socket assembly affixed to the equipment will be so interlocked as to prevent withdraw of plug from the socket while alive.
6. The electrical equipment associated with the machine shall be checked by Electrical Supervisor of the mine for their flameproofness. The condition of cables in the machine shall be checked at the beginning of each working shift and the findings thereof entered in a bound pagged book maintained for that purpose, which shall be duly signed by the Electrical Supervisor with the date.
7. Any replacement of parts required for maintenance or the equipment which is directly or indirectly connected to the flameproof features thereof, shall be supplied by the manufacturer as and when required.
8. The user shall furnish the performance report of the equipment directly to this Directorate after one (01) year of actual use.

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*K. Srinivasan*  
27/01/2017

9. The cable reel drum shall be checked for damages/injuries at least once in each shift. The Electrical Supervisor of the mine and the observations made thereof entered into a bound-page book which shall be duly signed by him and dated. The cable shall not be used until such time as the same has been properly repaired.
10. The electrical equipment associated with the machine shall be checked by Electrical Supervisor of the mine for their flameproofness. The condition of cables in the machine shall be checked at the beginning of each working shift and the findings thereof entered in a bound-paged book maintained for that purpose, which shall be duly signed by the Electrical Supervisor with the date.
11. (a) The customer shall be supplied the copy of this approval letter, the test report from the testing laboratory with the lab certified drawing, an extract of the condition & special conditions, maintenance schedule, if any, recommended by the testing laboratory in their test report(s) so as to maintain safety features of apparatus/equipment.  
  
(b) The customer shall also be provided a copy of factory test report along with drawings, instruction manual on the installation, operation and maintenance of the equipment and spares parts catalogue at the time of delivery of the equipment.
12. If there occurs any revision of standards applicable to the product/equipment, the manufacturer shall get the product/equipment tested as per revised standards and submit test reports to the customer for information and to this Directorate for further approval/renewal.
13. While seeking renewal of approval, valid BIS license in the case of Indian manufacturers and in case of foreign manufacturers QAR/QAN for the associated flameproof / weatherproof / intrinsically safe apparatus, as may be applicable, shall be submitted.
14. The cable entry devices, threaded adaptors and stopping plugs shall be suitable for the equipment and be considered as a part of equipment (not a component). The cable entry device and cabling methods used shall be suitable for their intended duty and for the special type of cable used in mining. Such cable entry devices shall be duly certified as per relevant IS/IEC standards.
15. In case of any permissible variations issued from this Directorate, they shall also be read along with this letter and the original approval letter.
16. The personnel who may be entrusted with the responsibility for the use, maintenance and operation of the machine shall be given adequate training.
17. The users in consultation with the manufacturer shall frame a code of practice to provide the guidance of persons employed for installation, operation and maintenance of Model 621 SDL and associated equipments, as well as to provide safety, health, convenience and discipline of persons so employed.
18. All technical assistance shall be rendered by the supplier at the time of initial installation of the machine at underground. The supplier shall maintain close contact with the users to get themselves fully apprised of any difficulty that may be faced by user during operation and maintenance of the machine.

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*K. Sankar*  
25/01/2018

19. The Fire Resistant Hydraulic H/D supplied with the machine shall conform to the standards and parameters as prescribed in DGMS/Mech/Tech.Cir (Approval) No. 02, Dhanbad, dated 13.02.2015.
20. The high pressure hydraulic hoses supplied with the machine shall conform to the standards and parameters as prescribed in the DGMS/Mech/Tech.Cir (Approval) No. 04, Dhanbad, dated 13.02.2015.
21. The cables in Machine shall conform to requirement of provisions of the DGMS Tech. Circular (Electrical) No. 12 dated 25.05.2015 and corrigendum vide DGMS Tech. Circular (Electrical) Approval No. 01 dated 19.02.2016 in addition to the special requirements, if any, specifically for the safe operation of the machine.
22. The Audio Visual Alarm used in the machine shall conform to the standards and parameters as prescribed in the DGMS Tech. Circular (Electrical), Approval No. 21 dated 05.10.2015.
23. The general arrangement drawing of the equipment shall conform to the Drawing No. D070000013 and the modifications on the Model 521 SDL in particular, shall not be carried out without prior approval of this Directorate.
24. The approval is accorded for a period of five (05) years from the date of issue of this letter.
25. At the time of applying for renewal, details of supply with name of mines, purchase order and date shall be furnished with the application.
26. Any modification/alteration to the machine that might be considered necessary at a later date in the interest of safety or/and efficient handling, operation, maintenance and manoeuvrability of the machine shall be carried out upon being so directed.
27. If at any time any of the conditions subject to which this approval has been granted, is violated or not complied with, this approval shall be deemed to have been revoked with immediate effect.
28. The above approval may be amended or withdrawn at any time, if considered so necessary in the interest of safety and is being issued without prejudice to any other provisions of law which may be or may become applicable at any time.

  
(Rahu Gupta)  
Director General of Mines Safety



**ANNEXURE-B**

Details of Flameproof and Intrinsically safe electrical equipment associated with Model 621 ADL manufactured by M/S EIMCO ELECON (India) Ltd., Vallabh Vidyanagar, Gujarat for use in belowground coal mines in India issued by Directorate's letter no. 374/2006 /EHQ dated 16-02-2007.

Sr. No.	Details of FLP, IS electricals & mechanical components	Name of Manufacturers (M/S)	DGMS approval no.
1.1	Flameproof Electric Motor rated 55 KW (75 HP), 415 or 525 Volts Electric Motor in basic frame size E250M with restrained FLP plug and socket or double compression cable gland on T.B.	Crompton Greaves Ltd., Ahmednagar	79 Group-I of 1974
1.2	Or FLP Electric Motor in frame 250 with Restrained Plug and socket or DC gland on TB	Laxmi Hydraulics	559 of 2007
2	FLSS type float switch assembly,	Eimco Elecon (I) Ltd., Vallabh Vidyanagar	35 Group-I
3	FLSS type temperature switch assembly	Eimco Elecon (I) Ltd., Vallabh Vidyanagar	35 Group-I
4	FLSS type limit switch assembly as dump valve switch, change over switch, man in position switch	Eimco Elecon (I) Ltd., Vallabh Vidyanagar	35 Group-I
5	FLP/WP push button station/Junction box, model EEEL 100	Eimco Elecon Electricals Ltd., Vallabh Vidyanagar	572 of 2008
6	Isolator (FLP Junction Box) , type JB-1	Mine Line Pvt. Ltd., Kolkata	297 of 1989
	Or FLP lighting transformer upto max. 500 VA	Mine Line Pvt. Ltd., Kolkata	300 of 1989
7	FLP cable Reel model 250 with plug & socket assembly rated upto 200 A & 1100 V	Eimco Elecon (I) Ltd., Gujarat	288 of 1998
8	FLP/WP Head Light type EEEL-HL-301	Eimco Elecon Electricals Ltd., Vallabh Vidyanagar	572 of 2008
9	IS power supply type FLP/WP/AVA/24V/SDL	Electrical Equipment Corporation Gurgaon	528 of 2005

  
 (Rajni Guha)  
 Director General of Mines Safety