



सत्यमेव जयते

S-29020/22/181(3)/R/2007/EHQ

भारत सरकार/ Government of India

श्रम एवं रोजगार मंत्रालय

Ministry of Labour & Employment

खान सुरक्षा महानिदेशालय

Directorate General of Mines Safety



No. 443/1300 /EHQ, Dhanbad, dated 28-08-2017

From  
Director General of Mines Safety  
Directorate General of Mines Safety,  
P.O & Distt: Dhanbad - 826 016.

To  
Shri Deepak Jain - General Manager (Mktg.)  
M/s. Simplex Engineering & Foundry Works Pvt. Ltd.  
65, Industrial Estate  
Bhilai - 490 026 (Chhatisgarh).

Sub: Renewal of DGMS approval No. 612/EHQ dated 21.06.2001 under Regulation 181(3) of the Coal Mines Regulations, 1957 for flameproof and intrinsically safe electrical equipment (as mentioned in Annexure-B) to be associated with Crawler Mounted Electro-Hydraulic Side Discharge Loader (SDL), type : D137/1000 manufactured by M/s. Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 (Chhatisgarh) for use in belowground Coal Mines.

Ref: DGMS approval as per Annexure -B

IDENTIFICATION MARK  
DGMS APPROVAL No. 612/EHQ dated 21.06.2001

Dear Sir,

Please refer to your letter No. SE/MKTG/DGMS/SDL-LH/APP-06/1094 dated 02.03.2017 and subsequent correspondence thereupon the above subject.

Based on DGMS approval No. 612/EHQ dated 21.06.2001 for flameproof and intrinsically safe electrical equipment (as mentioned in Annexure-B) to be associated with Crawler Mounted Electro-Hydraulic Side Discharge Loader (SDL), type : D137/1000 manufactured by M/s. Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai and DGMS approval under reference, I hereby renew the approval **upto 06.06.2022 from the date of expiry i.e. from 06.06.2017** for use in belowground Coal Mines, subject to compliance with conditions stipulated in the original approval as well as annexure -A.

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

Yours faithfully,

(Prasanta Kumar Sarkar)  
Director General of Mines Safety

Encl : Annexure- A & B

Annex

DGMS approval No. 612/EHQ dated 21.06.2001 renewed by Directorate's letter No. 443/1300 /EHQ dated 28-08-2017

Conditions for renewal of DGMS approval No. 612/EHQ dated 21.06.2001 under Regulation 181 (3) of the Coal Mines Regulations, 1957 for flameproof and intrinsically safe electrical equipment (as mentioned in Annexure-B) to be associated with Crawler Mounted Electro-Hydraulic Side Discharge Loader (SDL), type : D137/1000 manufactured by M/s. Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 (Chhatisgarh) for use in belowground Coal Mines.

1. (i) Every Crawler Mounted electro-hydraulic Side Discharge Loader (SDL), type : D137/1000 shall carry conspicuously in a permanent manner the aforesaid identification mark, i.e. "DGMS APPROVAL NO. 612/EHQ dated 21.06.2001 renewed by Directorate's letter No. 443/1300 /EHQ dated 28-08-2017"

In addition, every machine shall also carry permanently this Directorate's approval mark given below :



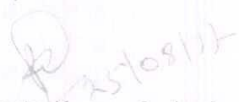
- (ii) In the nameplate marking shall be in accordance with the applicable requirements of the relevant standards.
2. The relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 shall be complied with in all matter relating to the installation, 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 provided with sensitive earth leakage protection.
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. Any replacement part required for maintenance of the equipment which is directly or indirectly connected to the flameproof features thereof shall be supplied by the manufacturer as and when required.
6. The electrical equipment and cables associated with the machine shall be checked by the Electrical Supervisor of the mine for their respective flameproofness of the equipment and condition of cables in the beginning of each working shift and the findings thereof enter into a bound-paged book maintained for that purpose which shall be duly signed by the Electrical Supervisor with the date.
7. 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. Jha*  
10/07/2012

8. (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.
9. The personnel who may be entrusted with the responsibility for the use, maintenance and operation of the machine shall be given adequate training for so much of the work may be enjoined on them.
10. The users in consultation with the manufacturer shall frame a code of practice for the control and guidance of persons employed for the installation, operation and maintenance of Crawler Mounted electro-hydraulic Side Discharge Loader (SDL), type : D137/1000 and associated equipments as well as for prevention of accident and to provide safety, health, convenience and discipline of persons so employed. The code of practice duly approved by the concerned zonal office of this Directorate shall be strictly complied with.
11. 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 user and to this Directorate.
12. 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.
13. While seeking renewal of approval, valid BIS license in the case of Indian manufacturers and in case of foreign manufacturers, QAR/QAN as may be applicable shall be submitted and the same shall remain valid as long as the apparatus is manufactured and marketed..
14. All technical assistance shall be rendered by the supplier at the time of initial installation of the machine underground. The supplier shall also maintain contact with the user to get themselves fully apprised of any difficulty that may be faced by the user in the matter of use, maintenance and operation of the machine.
15. The machine supplied by the manufacturer must be compatible with fire resistant hydraulic fluid conforming to the standards and parameters as prescribed in the DGMS/Mech/Tech.Cir (Approval) No. 02, Dhanbad, dated 13.02.2015.
16. The high pressure hydraulic hoses supplied with the machine shall conformed to the standards and parameters as prescribed in the DGMS/Mech/Tech.Cir (Approval) No. 04, Dhanabd, dated 13.02.2015.
17. In case of any permissible variations issued from this Directorate, they shall also be read along with this letter and the original approval letter.

17. 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 requirement, if any, specifically for safe operation of the equipment.
18. 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.
19. The renewal of the subject equipment is with regard to Ex standards mentioned herein. Other relevant standards applicable for assessment of its electrical parameters required under type test have not been taken into consideration.
20. All circulars/general approvals issued by DGMS from time to time, relevant to the equipment shall also be complied with.
21. The approval is renewed **upto 06.06.2022 from the date of expiry i.e. from 06.06.2017.**
22. At the time of applying for renewal, details of supply with name of mines, purchase order and date shall be furnished with the application.
23. 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.
24. 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.
25. 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.

  
(Prasanta Kumar Sarkar)  
Director General of Mines Safety

List of Flameproof and intrinsically safe electrical and other mechanical equipments to be associated with Crawler Mounted electro-hydraulic Side Discharge Loader (SDL), type : D137/1000 manufactured by M/S Simplex Engineering & Foundry Works Pvt. Ltd., Bhilai-490 026 vide DGMS approval No. 612/EHQ dated 21.06.2001 renewed by Directorate's letter No. 483/1300 /EHQ dated 18-08-2017

**RENEWAL OF APPROVAL NO. 612 OF 2001 FOR MODEL D137/1000 SDL MANUFACTURED BY M/S SIMPLEX ENGINEERING, BHILAI**

Sl. No	Description of the apparatus	Name of the Manufacturer	Approval No.	IS/IEC Standard as per test certificate / Approval
1	FLP Electric Motor rated at 75HP, 550V Frame Size E-250M with restrained plug and socket.	M/s Crompton greaves Ltd	79 of 1974	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007
2	FLP restrained plug and socket. FLP restrained plug and socket.	M/s Mine line M/s Kaysons	296 of 1989 546 of 2006	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
3	FLP Float switch	M/s Kaysons	505 of 2004	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
4	FLP Emergency Stop button station, Or FLP Emergency Stop button station	M/s Safex India M/s Kaysons	474 of 2000 505 of 2004	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
5	FLP/WP Head light rated at 55W, 12 V	M/s Kaysons	471 of 2000	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
6	FLP /IS junction box cum lighting and signaling unit type MLT, 550V	M/s Safex India. or M/s Kaysons	449 of 1997	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,

*K. Prakash*  
18/07/2017

Sl. No	Description of the apparatus	Name of the Manufacturer	Approval No.	IS/IEC Standard as per test certificate / Approval
7	FLP /MP lighting transformer	M/s Kaysons, Gujarat	505 of 2004	
8	FLP and IS power supply unit	M/s Safex India	332 of 1994	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007, IS/IEC 60079-0:2004, IS/IEC 60079-1:2007, IS/IEC 60079-11:2006 & IS: 60529-1989
9	FLP Cable reel Drum with Plug and Socket, type KR-D-1 Included in the list as per Inclusion letter No. 385/EHO dated 01.04.2005	M/s Kaysons, Gujarat	525 of 2005	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
10	FLP foot switch assembly Type FSA	M/s Safex India Or M/s Kaysons, Gujarat	495 of 2003 505 of 2004	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
11	FLP temperature switch rated upto 5A, 240V Cat No. KSWI-A or KPB I-A	M/s Kaysons Or M/s Safex India	529 of 2005 Or 505 of 2004	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,
12	FLP ON-OFF Push button station, type PB-330, 16A, 550V Or FLP Push button station	M/s Safex India M/s Kaysons	474 of 2000 505 of 2004	IS/IEC 60079-0:2004 & IS/IEC 60079-1:2007,

(Prasanta Kumar Sarkar)  
Director General of Mines Safety