



Ministry of Labour & Employment साम सुरक्षा नहानिदेशालय

Directorate General of Mines Safety /IBAQ, Dhanbad, dated



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

To
Mr. Shib Bhowmik - Country Head
M/s. Joy Global (UK) Utd.,
4 Swanwik Court, Alfreton,
Derbyshire, DE557 AS,
United Kingdom.

Sub:- Renewal of DGMS approval no. 501 of 2003 under Regulation 208(3) of the Coal Mines Regulations, 2017 for flameproof and intrinsically safe electricals equipment (as mentioned in Annexure-B) to be associated with Continuous Miner Model No.12CM15-10D manufactured by M/s, 2by Global (UK) Ltd., for use in belowground Coal Mines in India.

Manufacturer's declaration as to Standard with which the machine complies in respect of:

(a) General design, rating 8 performance

(b) General Requirements

(c) Intrinsically safe electricals

(d) Flameproof construction

: as per drawing submitted

: IS/IEC 60079-0: 2007

: IS/IEC 60079-11: 2006 &: IS/IEC 60079-1: 2007

IDENTIFICATION MARK DGMS APPROVAL No. 501 of 2003

Dear Sir,"

Please refer to your letter no. JGI/DGMS/2016/63 dated 18.10.2016 and subsequent correspondence thereupon the above subject.

Based on DGMS approval no. 501 of 2003 Issued by this Directorate's letter no. 483/2181/EHQ dated 09.12.2003 and test report nos. as mentioned in the Annexure B for electrical equipment associated with Continuous Miner Mode No.12CM15-100 manufactured by M/s. Joy Global (UK) Ltd., I hereby renew the approval upto 09.12.2021 from the date of expiry i.e. 09.12.2016 for use in belowground Coal Mines in India, subject to compilance with the conditions stipulated in the original approval as well as Annexure A anclosed with this renewal letter.

The application for renewal should be made at least three (D31 months before the date of expiry of the approval.

Yours faithfully

(Prasarita Kumar Sarkar) Director General of Mines Salety

End : Annexure-A&3

DGMS Approval No. 301 of 2003 renewed by Directorate's letter no................../EHQ dated.

Concidens for renewal of DGMS Approval No. 501 of 2003 under Regulation 206(3) of the Coal Mines Regulations, 2017 for flameproof and intrinsically safe electricals equipments (as mentioned in Annexure-B) to be associated with Continuous Miner Model No.12CM15-10D manufactured by M/s. Joy Global (UK) Ltd., for use in belowground Coal Mines in India.

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



- (ii) In the nameplate marking shall be in accordance with the applicable requirements of the relevant standards.
- (a) The design of the electrical circuit shall not be changed without obtaining prior approval from this Directorate.
  - (b)Conspicuous warning inscriptions against opening the cover of the main enclosure or of any apparatus which gives access to the flameproof enclosures on live parts or which is designed to receive cable attachment unless the supply to the unit is isolated at source, shall be affixed permanently on the respective part to ensure that all live parts within the unit are made dead and safe.
- Spare parts shall be made readily available to the user as and when required for proper maintenance of the equipment.
- (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.
- The user shall furnish the performance report of the equipment directly to this Directorate after one (01) year of actual use.
- Any modification to the equipment that might be considered necessary at a later date shall be effected upon being so directed by this Directorate.
- 7. While seeking renewal of approval, valid BIS tidense in the case of Indian manufacturers and in case of Toreign manufacturers, QAR/QAN, as may be applicable shall be submitted and the same shall immain valid as long as the apparatus is manufactured and marketed.

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- 8. If there occurs any revision of standards applicable to the product/equipment, the manufacturer shall got the product/equipment tasted as per revised standards and submit test reports to the customer for information and to this Directorate for further approval/renewal.
- 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 capting 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 duty certified as per relevant IS/IEC standards.
- 10. The approval 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.
- All forculars/general approvals issued by DGMS from time to time, relevant to the equipment shall also be compiled with.
- In case of any permissible variations issued from this Directorate, they shall also be read along with this letter and the original approval letter.
- 13. 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 maintanance of the equipment.
- 14. All covers, doors/excess covers of the electrical equipment mounted on the machine, the opening removal of which may expose live internal conductors thereon shall have warning instructions either raised reflexing or by other suitable means against such opening/removal or covers, doors and access covers without isolating supply of chergy to the equipment from its source.
- 15. The plug and socket assembly affixed to the motors/panel, if provided, will be so interlocked as to prevent withdraw of plug from the socket while alive.
- The fire resistant hydraulic fluid shall conform to the standards and parameters as prescribed in the DGMS/Mech/Tech.Cir (Approval) No. 02, Dhanbad, dated 13.62,2015.
- the high pressure hydraulic hoses supplied with the machine shall conforme to the standards and parameters as prescribed in the DGMS/Mech/Tech.Cr (Approval) No. 04, Dhanabd, dated -13.02.2015.
- 18. The cables in Machine shall conform to requirement of provisions of the DGMS Tech, Circular (Electrical) No. 12 dated 25.05.2015 and DGMS Tech Circular (Electrical) Approval No. 01 dated 19.82.2016 in addition to the special requirement, if any, specifically for the safe operation of the machine.
- 19. The electrical equipment and cables associated with the machine shall be checked by the Electrical Supervisor of the mine for their respective flamoproofness 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 duty signed by the Electrical Supervisor with the date.
- 20. The personnel who may be entrusted with the responsibility for the use, maintenance and operation of the machine shall be given adoquate training for so much of the work may be entoined on them.

- The actual users in consultation with the manufacturer shall frame a code of practice for the control and guidance of pursons employed for the installation, operation and maintenance of Continuous Winer Model No.12CM15-10D manufactured by M/s. Joy Giorai (UK) Ltd 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 Deputy Director General of Mines Safety shall be strictly complied with.
- 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.
- 23. The approval is renewed upto 09.12.2021 from the date of expiry, i.e. from 09.12.2016.
- 24. At the time of applying for renewal, details of supply with name of mines, purchase order and date shall be furnished with the application.
- 25. 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.
- 26. 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.

(Prasenta Kumar Serkar) Director General of Mines Safety 

SI. No.	Details of FLP, TS Electricals & Mechanical Components	Manufacturer's name (M/S)	Test Report nos.
1	FLP JNA enclosure with Lans and control and monitoring equipment rated at 110 V, 250 VA	Joy Global (UK) Ltd.	CIMER/TC/P/H808 Dated 14,03,2013
2	FLP Shuttle Car controller rated at 1100 V	Joy Global (UK) Ltd.	CIMFR/TC/P/H137 Dated 20:07:2015
3.	Continuous miner, Cutter motor Type 170 KW, 1100V	Baldore electic exempnay	CIMFR/TC/P/H22 dated 12.04.2012
4.	Shuttle car, AC traction motor 50 HP, 1100v, 1300 rmp	Baldor electric company	DGMS approval No. 530 of 2005
5.	FLP haviage motor rated at 35 HP, 250 V	Baldor electric company	CIMFR/TC/P/H64 dated 23.04.2012
6.	FLP foot switch rated at 120 V	Joy Global (UK) Ltd.	DGMS Approval No. 530 of 2005
7.	FLP Junction box rated at 1100 V	Joy Global (UK) Ltd.	GIMFR/TC/P/H673 dated 10.01.2013
8.	FLP cable regier rated at 110 A, 1100 V	Joy Global (UK) Ltd.	CIMFR/TC/P/H320 Dated 26.07.2012
9.	FLP fluorescent lighting fitting	Victor, UK	CMRI/TC/P/H634 dated 26.11.2013
10.	Programmable sensor controller type 1X9042	Trolex Ltd., UK	CIMFR/TC/P/H674 dated 10.01.2013
11.	Continuous Miner, pressure sensor type TX6114, 12 V DC	Trolex Ltd., UK	CIMFR/TC/P/H796 dated 11.03.2013
12.	Continuous Miner, differentia pressure sensor type TX6144, 0.1 to 16 bar, 12 V DC	Trolex Ltd., UK	CEMFR/TC/P/H796 dated 11.03.2013
1.4.	Continuous Minor, Radio Receiver type RX1, 10 V DC	MATRIC	DGMS Approval No. 530 of 2005

(Presente Kumar Sarkar) Director General of Mines Safety