



5-29020/34/181(3)/R/2007/EHQ
भारत सरकार/Government of India
श्रम एवं रोजगार विभाग
Ministry of Labour & Employment
खान सुरक्षा महाविभाग
Directorate General of Mines Safety

Speed Post



No. 494/140

/EHQ,

Dhanbad, dated the

01-02-2017

From
Director General of Mines Safety
Directorate General of Mines Safety
P.O & Distt: Dhanbad. - 826 001.

To
Shri K.R. Radhakrishna
Chief General Manager, R&D (Mining & Construction)
M/s. BEML Limited, KGF Complex, BEML Nagar,
Kolar Gold Fields, Dist : Kolar 563 115 (Karnataka).

Sub:- Renewal of DGMS approval No. 650 of 2012 under Regulation 181(3) of the Coal Mines Regulations, 1957 for flameproof and intrinsically safe electrical equipment to be associated with BL-10C Side Discharge Loader with cable reeling drum (as mentioned in Annexure-B) manufactured by M/s. BEML, Kolar for use in belowground Coal Mines in India.

IDENTIFICATION MARK
DGMS APPROVAL No. 650 of 2012

Dear Sir,

Please refer to your letter No. G/BL10C-CRD/DGMS/340 dated 15.10.2016 and subsequent correspondence on the above mentioned subject.

Based on DGMS Approval No. 650 of 2012 issued by this Directorate's letter No. 494/2696/EHQ dated 28.12.2012 for flameproof and intrinsically safe electrical equipment to be associated with BL-10C Side Discharge Loader with cable reeling drum (as mentioned in Annexure-B), manufactured by M/s. BEML, Kolar I hereby renew the approval **upto 28.12.2018 from the date of expiry, i.e., 28.12.2016** for use in belowground Coal Mines, subject to compliance with conditions stipulated in the original approval as well as 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 Guna)

Director General of Mines Safety

End : Annexure-A&B

Annexure- A

DGMS approval No. 650 of 2012 renewed by Directorate's letter No. 494/140 /EHQ dated 01-02-2017

Conditions for renewal of DGMS Approval No. 650 of 2012 under Regulation 181(3) of the Mines Regulations, 1957 for flameproof and intrinsically safe electrical equipment to be associated with BL-10C Side Discharge Loader with cable reeling drum (as mentioned in Annexure B) manufactured by M/s. BEML, Kolar for use in belowground Coal Mines in India.

(1) Every BL-10C Side Discharge Loader with cable reeling drum shall carry conspicuously in a permanent manner the aforesaid identification mark, i.e. "DGMS APPROVAL NO. 650 of 2012 issued by Directorate's letter No. 494/140 /EHQ dated 01-02-2017"

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



(i) In the nameplate marking shall be in accordance with the applicable requirements of the relevant standards.

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.

The supply to the machine shall be controlled and protected by DGMS approved flameproof switchgear of suitable rating and provided with sensitive earth leakage protection.

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.

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.

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.

The cable reel drum, if provided, 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.

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 page book maintained for that purpose, which shall be duly signed by the Electrical Supervisor with the date.

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K. Lakshminarayana
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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 in service shall be suitable for their intended duty and special types of cable used in mining. Such cable entry devices shall be duly certified as per relevant IS/IEC standards.

The user shall furnish the performance report of the equipment directly to this Directorate after one (01) year of actual use.

(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.

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.

In case of any permissible variations issued from this Directorate, they shall also be read along with this letter and the original approval letter.

The personnel who may be entrusted with the responsibility for the use, maintenance and operation of the machine shall be given adequate training.

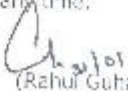
The users in consultation with the manufacturer shall frame a code of practice for the control and guidance of persons employed for the installation, operation and maintenance of BL-10C Side Discharge Loader with cable reeling drum and associated equipments as well as for prevention of accident and to 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.

6. All technical assistance shall be rendered by the supplier at the time of initial installation of the machine at underground. The supplier shall also maintain close contact with the users to get themselves fully apprised of any difficulty that may be faced by the user during operation and maintenance of the machine.
7. The Fire Resistant Hydraulic Fluid 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.
8. 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.
19. 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 the safe operation of the machine.

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20. 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.
21. 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.
22. The approval is renewed **upto 28.12.2018 from the date of expiry, i.e., 28.12.2016.**
23. At the time of applying for renewal, details of supply with name of mines, purchase order and date shall be furnished with the application.
24. 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.
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.


(Rahul Guha)
Director General of Mines Safety

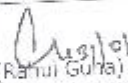
ANNEXURE B

List of flameproof and intrinsically safe electrical equipment to be associated with BL-10C Side Discharge Loader with cable reeling drum manufactured by M/s. BEML Limited, Kolar for use in belowground Coal Mines in India vide DGMS approval No. 650 of 2017 renewed by Directorate's letter No. 4964/199/2017/EHQ dated 02/02/2017

Sl No	BEML Part No.	Details of FLP/IS electricals, cables & mechanical components	Quantity	Manufacturer's name	DGMS Approval No.
1	762EG02017	FLP induction motor 55 KW, 3 phase, 50 Hz, 1475 RPM, class F, frame size BLE250M	01	Kirloskar Electric Company Ltd., Hubli	225 Group-1 of 1982
2	762EG02134	FLP junction box (isolator) type JB-1	01	Mine Line Pvt. Ltd., Kolkata	297 of 1989
	762EG02033	Lighting transformer, type-KLTI-A	01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	506 of 2004
3	762EG02041	FLP Head Lamp 1, Category no. KHL-A Head Lamp 2 type-KHL-B	02 01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	471 of 2000
4	762EG02122	FLP push Button Station for reverse alarm 230 V, 15 A, type no. KPBI-A	01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
5	762EG02211	FLP electrical kit (Limit Switch) for dump valve 230 V, 15 A, type-KPBI-A	01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
6	762EG02188	FLP PB station type-FLP/CS-1 or	01	Mine Line Pvt. Ltd., Kolkata	295 of 1989
	762EG02066	FLP PB station type-KPBI-A	01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
7	762EG02147	FLP foot pedal switch type-FLP/CS-1	01	Mine Line Pvt. Ltd., Kolkata	295 of 1989
	762EG02074	FLP foot pedal switch type-KPBI-A	01	Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
8	762EG02135	FLP level switch type FSIS	01	Safex (India), Dhanbad	493 of 2003
		or		Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
	762EG02228	FLP level switch type-KPBI-A	01	Vitthal Udyog Nagar	505 of 2004
9	762EG02155	FLP temperature switch type FSIS	01	Safex (India), Dhanbad	493 of 2003
		or		Kaysons Techno Equipments Pvt. Ltd. Vitthal Udyog Nagar	505 of 2004
	762EG02236	FLP temperature switch type-KPBI-A	01	Vitthal Udyog Nagar	505 of 2004

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Sr No	BEML Part No.	Details of FLP/IS electricals, cables & mechanical components	Quantity	Manufacturer's name	DGMS Approval No.
10	762EG02171	FLP selector switch, 650 V, 16 A type-FLP/CS-1	01	Mine Line Pvt. Ltd., Kolkata	295 of 1989
11	762EG02114	FLP/IS 12 V DC IS power unit	01	Safex(India), Dhanbad	332 of 1994
12	771EG02008	FLP Cable Reel Drum, type KRD 1, 1100 V, 300 A	01	Kaysons Techno Equipments Pvt. Ltd.	525 of 2005


(Rajul Guha)
Director General of Mines Safety