

**APPROVAL OF ELECTRICAL APPARATUS & CABLES UNDER REGULATION
75(2) OF THE OIL MINES REGULATIONS, 1984**

The list of approved flameproof switchgear is not exhaustive and subject to verification of the approval documents.

Sl. No.	Description of equipments	Name of Manufacturer (M/S)	Approval no.	Valid upto
K1	Flameproof/weatherproof (IP66) junction box, category no. KJB-A and B, suitable for voltage upto 1100 V AC and 25 A in cast aluminium alloy LM-6 construction conforming to IS:2148-2004 & IS:13346-2004 of use in Zone-1 and Zone-2 hazardous areas of Oil Mines.	Kaysons Techno Equipments Pvt. Limited 1802/7 : Phase-IV GIDC Estate Vithal Udyognagar – 388 121(Gujarat).	137 of 2004	08.02.2012
K2	Flameproof & weatherproof isolator & control box rated upto 440 V, 400 A, type no. KIB-1 in cast aluminium alloy LM-6 construction manufactured by M/S Kaysons Techno Equipments Pvt. Limited, Vithal Udyognagar conforming to IS: 2148-2004, IS:13346-2004 and IS12063-1987 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines	Kaysons Techno Equipments Pvt. Limited 1802/7 : Phase-IV GIDC Estate Vithal Udyognagar – 388 121(Gujarat).	191 of 2008	07.11.2012
B1	Flameproof-weatherproof multiple entry junction box in cast aluminium alloy construction LM-6 rated upto 250 A, 550 V, 3 phase, 50 Hz AC category no. DB 6031 fitted with approved type FLP double compression cable glands conforming to IS:2148-2004 & IS:13346-2004 of use in Zone-1 and Zone-2 hazardous areas of Oil Mines.	Baliga Lighting Equipment Ltd., 63-A, CP Ramaswamy Road, Alwarpet, PB no. 6910, Chennai-600 018	135 of 2003	04.04.2010
B2	Flameproof-weatherproof intrinsically safe telephone in cast aluminium alloy LM-6 construction. category no. IST-3003 conforming to IS:2148-2004 & IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Baliga Lighting Equipment Ltd., 63-A, CP Ramaswamy Road, Alwarpet, PB no. 6910, Chennai-600 018	139 of 2004	31.03.2011

FE1	<p>(1)Flameproof/weatherproof enclosure consisting of two nos. of FLP/WP compartments with two nos.FLP/WP plug & socket, 25 A, 500 V single phase or three phase in cast aluminium LM-6 construction, type-FLP-RH-5800 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.</p> <p>(2)Flameproof/weatherproof direct entry type instrument box in cast aluminium alloy LM-6 construction rated at 30 A, 550 V DC, type-FLP-RH-6000 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.</p> <p>(3)Flameproof/weatherproof on-off Rotary switch in cast aluminium alloy LM-6 construction rated at 25 A, 550 V AC, type-FLP-RH-1600 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.</p>	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	121 of 2002	25.09.2009
FE2	Flameproof 3 pin switch plug combined type FLP-RH-110 in cast aluminium alloy LM-6 construction rated upto 15 A and 550 V conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	72 of 1991	21.04.2010
FE3	Flameproof/weatherproof push button station, designated type-FLP-RH-900 rated upto 15 A, 550 V AC or 5 A, 230 V DC conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	73 of 1991	18.10.2009
FE4	Flameproof/weatherproof switch socket combined with plug and HRC fuse rated upto 15/25 A, 550 V AC and 250 V AC, designated type-FLP-RH-500 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W),	67 of 1991	18.10.2011

		Mumbai – 400 053.		
FE5	Flameproof cum weatherproof control panel in light aluminium alloy LM-6 construction, type-FLP-RH-1301 rated at 550 V AC/DC, upto 60 A conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	105 of 1999	25.09.2011
FE6	(1)Flameproof/weatherproof (IP65) ceiling fan, type-FLP-RH-2020, size of 49”, single phase, in cast aluminium alloy LM-6 construction duly fitted with certified and approved FLP/WP junction box type-FLP-RH-01 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines. (2)Flameproof single phase capacitor start 1.0 HP motor in cast iron construction for 24” frame size exhaust fan unit as designation by type-FLP-RH-EXF-2000 with M.S. fabricated blad conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	123 of 2002	25.09.2011
FE7	Flameproof/weatherproof junction box in cast aluminium alloy LM-6 construction designated by type no. FLP-RH-01 and FLP/WP double compression type cable gland in aluminium alloy LM-6 construction type no. FLP-RH-GL-01, FLP-RH-GL-08, FLP-RH-GL-11 conforming to IS:2148-2004 and IS:13346-2004 for use in Zome-1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	124 of 2002	25.09.2009
FE8	(1)Flameproof/weatherproof control station in cast aluminium LM-6 construction, 550 V, 50 Hz, 32 A or 250 V DC, 10 A type-FLP-RH-4200 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines (2)Flameproof/weatherproof tube light fitting in cast aluminium LM-6 construction, 250 V, 2X9 W each, type-FLP-RH-1850 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 &	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	125 of 2002	25.09.2011

	Zone 2 hazardous areas of Oil Mines and (3)Flameproof/weatherproof push button station, 500 V, 60 A or 230 V, 6 A DC in cast aluminium LM-6 construction, type-FLP-RH-5200 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.			
FE9	FLP/WP light fitting with max. 3 nos., 5 watt LEDs (in white/yellow colour) working voltage upto 110/250 V AC (max.) designated by type no. FLP-RH-LED-01 with control gear in cast iron construction and duly fitted with FLP/WP double compression type cable glands conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	Flameproof Equipments Pvt. Ltd. Plot No.B-39 (Near Monginis) New Link Road, Andheri (W), Mumbai – 400 053.	181 of 2008	27.06.2009
SF1	Flameproof/weatherproof control gear box type no.CG-401 in cast aluminium alloy LM-6 construction conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines	Safex Flameproof Controls (P) Ltd. Ashirwad Complex :PO-Nagnagar Near Hawaiiadda : Dhanbad-826 004.	144 of 2005	08.07.2010
SF2	Flameproof/weatherproof junction box (IP-65) in cast aluminium alloy, LM-6 construction, type JB-5 rated at 25 A, 550 V max. conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines	Safex Flameproof Controls (P) Ltd. Ashirwad Complex : PO-NagnagarNear Hawaiiadda : Dhanbad-826 004.	111 of 1999	23.04.2010
SF3	Flameproof/weatherproof junction box in cast aluminium alloy LM-6 construction, type-JB-4 rated at 25 A, 550 V (max.) conforming to IS:2148-2004 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines	Safex Flameproof Controls (P) Ltd. Ashirwad Complex : PO-NagnagarNear Hawaiiadda : Dhanbad-826 004.	112 of 1999	09.06.2009
SF4	Flameproof/weatherproof push button station type PB-330 in cast aluminium alloy LM-6 rated at 16 Amps, 550 Volts (max.) conforming to IS:2148-2004, IS:12063-1987 and IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines	Safex Flameproof Controls (P) Ltd. Ashirwad Complex : PO-Nagnagar Near Hawaiiadda : Dhanbad-826 004.	472 of 2000	31.08.2009
FEP1	(1)FLEXPRO make FLP/WP hand lamp fittings, Cat No.MFH/76/2/IIC-IEC in LM-6 construction for 40/60	Flexpro Electricals Pvt Ltd C-1/27 & 37, GIDC	101 of 1996	23.11.2010

<p>watt(Max) GLS lamp 24 volt maxm. for Zone I and Zone 2 areas of Oil Mines.(2)Flexpro make FLP/WP Integral Well Glass fitting Cat. No.MFW/193-I in cast aluminium Alloy LM-6 construction, 200/300 watt GLS Lamp 110V/250V, 80/125W HPMV lamp or 160 MLL lamp at 250V maximum for Zone I and 2 areas of Oil Mines.(3)Flexpro make FLP/WP control Gear Box, Cat. No.MFC/1100/4 in LM-6 construction for 250W/400W HPMV, 250V max. A.C. for Zone I and 2 areas of Oil Mines.(4)Flexpro make FLP/WP Local Control Station in LM-6 construction, Cat. No.MFPB/302/IIC-IEC rated at 15amps, 500V for Zone I and Zone 2 areas of Oil Mines.(5)Flexpro make FLP/WP Switch Socket & Plug unit in LM-6 construction, Cat. No.MFSS/900/6/I-IEC rated at 63 Amps, 550V AC/DC for use in Zone I and Zone 2 areas of Oil Mines.(6)Flexpro make FLP/WP Control Gear Box, Cat. No.MFC/1100/3 in LM-6 construction 80W/125W/250W, HPMV Lamp, 250V maximum for use in Zone I and Zone 2 areas of Oil Mines.(7)Flexpro make FLP/WP Switch Socket & Plug Cat. No.MFSS/900/10-IEC in LM-6 construction up to 25amps TPN 4 pole 500v AC/DC for use in Zone I and Zone 2 areas of Oil Mines.(8)Flexpro make FLP/WP well Glass Fitting Cat. No.MFW/196/1 in LM-6 construction, 300w GLS Lamp at 110V/250V, 250W HPMV lamp or 250W MLL Lamp at 250V maximum for use in Zone I and Zone 2 areas of oil Mines.(9)Flexpro make FLP/WP enclosure for distribution type panel Board Cat. No.MFP/1500-IEC in LM-6 construction,100 amps, TPN 550V (max.) AC/DC for use in Zone I and Zone 2 areas of Oil Mines.(10)Flexpro</p>	<p>Kabilpore Navsari - 396 424 (Gujarat).</p>		
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	<p>make, FLP/WP Well glass Fitting, Cat. No.MFW/196 in LM-6 construction, 200W GLS Lamp, 110V/250V, 80W/125W HPMV Lamp or 160W MLL Lamp, max 250V for use in Zone I & Zone 2 areas of Oil Mines.(11)</p> <p>Flexpro make, FLP/WP, 60Amps, 500Volt, Cat. No.MFJB/201/IIC-IEC, Junction Box, 4 way in LM-6 construction, for use in Zone I and Zone 2 areas of Oil Mines.(12)Flexpro make, FLP/WP direct entry type Rotary Switch/Toggle Action Switch, Cat. No.MFRS/104/IIC-IEC in LM-6 construction, 16Amps DP/TP ,500 Volt, for use in Zone I and Zone 2 areas of Oil Mines.(13)Flexpro make FLP/WP Portable Transformer with Switch Socket & Plug, Cat. No.MFT/206/1-IEC in LM-6 construction, 500VA, 240V primary & 24V secondary for use in Zone I & 2 areas of Oil Mines.(14)Flexpro make, FLP/WP Local Control Station, cat. No.MFPB/303-IEC, 2 NO+ 2NC, 15A , 500V max, 3 phase AC/DC, in LM-6 construction for use in Zone I and Zone 2 areas of Oil Mines and (15)Flexpro make, FLP/WP Well Glass Fittings, Cat. No.MFH/76/1 in LM-6 construction, 40W/60W/100W GLS Lamp, 250Volt maximum, for use in Zone I and Zone 2 areas of Oil Mines.</p>			
FCG1	<p>Flameproof/weatherproof junction box in cast aluminium alloy LM-6 construction rated upto 550 V, 32 A, type-IJ-31100 conforming to IS:2148-2004 and IS:13346-2004 for use in Zone-1 and Zone-2 hazardous areas of oil mines.</p>	<p>FCG Flameproof Control Gears Pvt. Ltd. A1/53 : Shah & Nahar Industrial Estate Sitaram Yadhav Road : Lower Parel (West) Mumbai-400 013.</p>	157 of 2006	12.12.2009
FCG2	<p>FLP/WP local control station type 30311 rated upto 10 A and upto 500 V AC or upto 2 A DC</p>	<p>FCG Flameproof Control Gears Pvt. Ltd.</p>	59 Group-IIA & IIB	13.12.2008

		A1/53 : Shah & Nahar Industrial Estate Sitaram Yadhav Road : Lower Parel (West) Mumbai-400 013.	of 1989	
FCG3	(1)FLP/WP switch socket combined with plug category no. FCG/PLG/307/5 rated at 63 A, 550 V, 50 Hz AC in cast aluminium alloy LM-6 construction conforming to IS:2148-1981 & IS:13947(Part-I)-1993 (2)FLP/WP distribution board in cast aluminium LM-6 construction type (non extensible) SC-31352 & cast DB/351 rated 200 A/660 V maximum TPN-3 phase 50 Hz AC conforming to IS:2148-1981 & IS:13947(Part-I)-1993 (3)FLP/WP design BT-6 control gear box for 250 V, HPMV lamp upto 400 W, category FCG/LC-31400 in cast aluminium alloy LM-6 construction conforming to IS:2148-1981 & IS:13947(Part-I)-1993 (4)FLP/WP interlocked switch socket combined with plug rated at 32 A, upto 550 V, 3 phase, 50 Hz AC type FCG-30072 in cast aluminium alloy LM-6 construction conforming to IS:2148-1981 & IS:13947(Part-I)-1993	FCG Flameproof Control Gears Pvt. Ltd. A1/53 : Shah & Nahar Industrial Estate Sitaram Yadhav Road : Lower Parel (West) Mumbai-400 013.	99 of 1996	15.04.2011
S1	(1)FLP/WP DC starter motor, rated at 10 HP, 24 V DC, 1300 in rush, 1800 RPM, 50/60 Hz in frame size 56CZ model no. ST-531EP2 conforming to IS:2148-2004, IS:13346-2004 and IS:4691-1985 (2)FLP/WP DC Alternator, rated at 24 V DC, 30 A in rush, 1800 RPM, 50 Hz/60 Hz in frame size BDX/56 model no. TA281EP-2 conforming to IS:2148-2004, IS:13346-2004 and IS:4691-1985 (3)FLP/WP enclosure for DC Starter Contactor with Push Button in die cast aluminium alloy A380.0 construction designated by model no. TSW-99 EP-	Siddhartha Engineering & Sales 33, Chittaranjan Avenue Kolkata-700 012.	175 of 2008	21.01.2010

	25 conforming to IS:2148-2004, IS:13346-2004 and IS:12063-1987 manufactured by M/S United States Energy Corporation, California (USA) for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.			
Y1	<p>(1)FLP/WP Intrinsically Safe EJA110A series Differential Pressure Transmitter model : EJA 110A-EMS5A-62EC/KU2 in low copper cast aluminium alloy ADC12 construction conforming to IS:2148-2004, IS:5780-2002 & IS:12063-1987 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines.</p> <p>(2)FLP/WP Intrinsically Safe EJA110 series temperature transmitter model : YTA110-EA2DB/KU2 in cast aluminium alloy construction conforming to IS:2148-2004, IS:5780-2002 & IS:12063-1987 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines.</p> <p>(3)FLP/WP Intrinsically Safe Enclosure for Yokogawa PK200 series Current to Pneumatic Converter in copper free cast aluminium alloy construction conforming to IS:2148-2004, IS:5780-2002 & IS:12063-1987 manufactured by M/S Yokogawa Electric Corporation, Tokyo conforming to IS: 2148-2004, IS:5780-2002 & IS:12063-1987 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines.</p>	Yokogawa Electric Corporation 2-9-32, Nakacho Musashino-shi Tokyo, 180-8750 (JAPAN).	182 of 2008	25.07.2009
S1	Flameproof / weatherproof electrical equipments as mentioned in Annexure-B for use with drilling Rig NAT 110 UE of M/s SHIV-VANI Oil & Gas Exploration Services Ltd., New Delhi conforming to IS:2148-2004, IS:13346-2004, IS:12063-1987 and IS:5780-2002 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines.	SHIV-VANI Oil & Gas Exploration Services Ltd. F-213/C, 3 rd Floor : Lado Sarai M B Road : New Delhi – 110 030.	190 of 2008	14.10.2011
I1	Oil Immersed Transformer with increased safety enclosure rated at 75 KVA, 415/23000 V AC, 181 A, 50 Hz, type: EOXG 75 manufactured by M/S	Indian Oiltanking Limited 103, Spectra, Hiranandani	164 of 2007	02.07.2011

	BETRA Transformatorn Behncke Gmbh, Germany conforming to IS:7693-1975, IS:6381-1972 & IS:13346-1992 for use in Zone 2 hazardous areas of Oil Mines	Business Part Powai : Mumbai-400 076.		
L1	(1)Flameproof Rotary Valve Actuator model no. L120-10, in cast aluminium alloy LM-6 construction with double compression gland conforming to IS:2148-2004 & IS:13346-2004 (2)Flameproof enclosure for Rotary Valve Actuator model no. L120-20, in cast aluminium alloy LM-6 construction with double compression gland conforming to IS:2148-2004 & IS:13346-2004 for use in Zone 1 & Zone 2 hazardous areas of Oil Mines	Limitorque India Limited Plot no. 148, Sector-24, Faridabad-121 005(Haryana).	165 of 2007	04.07.2011
E1	FLP/WP Remote Ignition System for firing the burner inside furnace manufactured by M/s Eltech, Mumbai housed in M/s Sudhir Switchgears Pvt. Ltd., Mumbai make DGMS approved FLP/WP enclosure in LM-6 construction conforming to IS:2148-2004 & IS:13346-2004 and 2X2.5 mm ² silicon rubber insulated cable manufactured by M/S Industrial Fabricators, Mumbai for use in Zone-1 and Zone-2 hazardous areas of Oil Mines.	Eltech, A/6, Plot no. 48, Konkan Prantiya Building, Shivrushti, Kurla-East : Mumbai-400 024.	198 of 2009	17.02.2010
SS1	Flameproof push button station of cast aluminium alloy LM-6 construction Category no. PBS/OA/101 rated upto 110 A, upto 550 V, 50 Hz AC conforming to IS:2148-2004 & IS:13346-2004 for use in Zone-1 & Zone-2 hazardous areas of Oil Mines	Sudhir Switchgears Pvt. Ltd. 305/6, Apeejay House 130, Mumbai Samachar Marg Fort Mumbai-400 023.	87 of 1991	24.05.2010
SS2	Flameproof direct on line starter in cast aluminium alloy LM-6 construction, category no. DOLS/A/132 rated upto 20 HP, 550 V, 3 phase, 50 Hz AC conforming to IS:2148-2004 & IS:13346-2004 for use in Zone-1 & Zone-2 hazardous areas of Oil Mines	Sudhir Switchgears Pvt. Ltd. 305/6, Apeejay House 130, Mumbai Samachar Marg Fort Mumbai-400 023.	89 of 1991	02.02.2011

