

# Laxmi Hydraulics Pvt. Ltd.

## Product Approval Index

SR. No.	Agency	Product / Approval type	Range of Products	Reference - Approval / Certificate Licence No. with date	Due On	
1.	BIS, Pune	Flameproof Induction Motors ( <b>Ex "d"</b> ) IS 2148:2004 (IEC 60079-1 2001 )	In frame size LF-71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315 & LF-B56, LF-97	CM/L-7165673	15.02.2012	
		IS/IEC 60079-1: 2007	LF 63M-N, LF 71M-N, LF 80M-N			
2.	ERTL, Kolkatta	Flameproof enclosure type ( <b>Ex "d"</b> ) As per IS 2148-2004 IS 2148:2004 (IEC 60079-1)	Flameproof motors in LF-71 frame	ERTL(E)/TES/LO77/0019/01-07 Dtd. 14.05.2007	13.05.2017	
			Flameproof motors in LF-80 frame	ERTL(E)/TES/LO77/0020/01-07 Dtd. 14.05.2007	13.05.2017	
			Flameproof motors in LF-90 S/L frame	ERTL(E)/TES/LO77/0021/01-07 Dtd. 14.05.2007	13.05.2017	
			Flameproof motors in LF-97 frame	ERTL(E)/TES/LO77/0022/01-07 Dtd. 14.05.2007	13.05.2017	
			Flameproof motors in LF-100L Frame LF 100L Frame (3kw/4Pole)	ERTL(E)/TES/LO77/0023/01-07 Dtd. 14.05.2007 ERTL(E)/TES/LO77/0012/09-07 Dtd. 20.09.2007 (Supplementary)	13.05.2017	
			Flameproof motors in LF-112M frame	ERTL(E)/TES/LO77/0024/01-07 Dtd. 14.05.2007	13.05.2017	
			Flameproof motors in LF-132 S/M frame LF-132M Frame (11KW/2Pole, 9.3KW/4Pole )	ERTL(E)/TES/LO77/0025/01-07 Dtd. 14.05.2007 ERTL(E)/TES/LO77/0013/09-07 Dtd. 20.09.2007 (Supplementary)	13.05.2017	
			Flameproof motors in LF-160 M/L frame LF-160L Frame (22KW/2Pole, 18.5KW/4Pole)	ERTL(E)/TES/LO77/0026/01-07 Dtd. 14.05.2007 ERTL(E)/TES/LO77/0014/09-07 Dtd. 20.09.2007 (Supplementary)	13.05.2017	
			Flameproof motors in LF-180 M/L frame LF-180L Frame (37KW/2Pole, 30KW/4Pole)	ERTL(E)/TES/LO77/0027/01-07 Dtd. 01.06.2007 ERTL(E)/TES/LO77/0015/09-07 Dtd. 20.09.2007 (Supplementary)	31.05.2017	
			Flameproof motors in LF-200 L Frame LF-200 L Frame (45KW/2Pole, 37KW/4Pole)	ERTL(E)/TES/LO77/0028/01-07 Dtd. 01.06.2007 ERTL(E)/TES/LO77/0016/09-07 Dtd. 20.09.2007 (Supplementary)	31.05.2017	
			Flameproof motors in LF-225 S/M Frame LF-225M Frame (65KW/2P, 55KW/4P)	ERTL(E)/TES/LO77/0029/01-07 Dtd. 01.06.2007 ERTL(E)/TES/LO77/0017/09-07 Dtd. 20.09.2007 (Supplementary)	31.05.2017	
			Measurement of MAX. surface Temperature of Flameproof Motors IS 2148:2004 (IEC 60079-1)	Flameproof Induction Motors LF 250M, LF280 S/M, LF 315 S/M/L	ERTL(E)/TES/LO77/0029/07-06 dtd. 10.08.2006	NA
			Flameproof T Box with Plug & Socket	LF 132M Flameproof T.Box with plug & socket	ERTL(E)/TES/LO77/0017/08-09 Dtd. 21.08.2009	20.08.2019
		LF 180M Flameproof T.Box with Plug & socket		ERTL(E)/TES/LO77/0049/05-10 Dtd. 31.05.2010	30.05.2020	
LF 280M Flameproof T.Box with Plug & socket	ERTL(E)/TES/LO77/0074/12-09 Dtd. 15.01.2010 Kayson (300A)	14.01.2020				
LF 280M Flameproof T.Box with Plug & socket	ERTL(E)/TES/LO77/0003/03-10 Dtd. 12.03.2010 Mineline (200A)	11.03.2020				
ERTL, Kolkatta	Flameproof enclosure type 'd' As per IS/IEC 60079-1-2007 & IS/IEC 60079-0-2004 Gas group I,IIA, IIB & IIC	FLP/WP 3Ph.IM LF 63M-N (0.12 to 0.25KW)	ERTL(E)/TES/LO77/0031/12-10 Dtd. 14.12.2010	13.12.2015		
		FLP/WP 3Ph.IM LF 71M-N (0.12 to 0.55KW)	ERTL(E)/TES/LO77/0033/12-10 Dtd. 09.02.2011	08.02.2016		
		FLP/WP 3Ph.IM LF 80M-N (0.18 to 1.1KW)	ERTL(E)/TES/LO77/0035/12-10 Dtd. 10.02.2011	09.02.2016		
		FLP/WP 3Ph.IM LF 180M/L-N (11 to 22KW)	ERTL(E)/TES/LO77/0036/12-10 Dtd. 24.05.2011	23.05.2016		
ERTL, Kolkatta	Increased Safety <b>Ex`e`</b> & Non Sparking <b>Ex`n`</b> Motors for Time tE & Temp. Rise test IS 6381:2004 (IEC 60079-7)	Increased Safety type `e` and Non sparking type `n` motors from 71 to 315 frame eff 1 & 2	ERTL(E)/TES/LO77/0037/04-07 Dtd : 29/05/2007	22.12.2017		

# Laxmi Hydraulics Pvt. Ltd.

## Product Approval Index

SR. No.	Agency	Product / Approval type	Range of Products	Reference - Approval / Certificate Licence No. with date	Due On
		Non Sparking <b>Ex`nA`</b> IS/IEC 60079-15 (2005) & IS/IEC 60079-0 (2004)	Non sparking type `n` motors from 63 to 355L frame eff 1 & 2  Total 36 Models	ERTL(E)/TES/LO77/0027/01-10 Dtd : 22.01.2010	21.01.2020
		Flameproof enclosure type ( <b>Ex “d”</b> )As per IS 13346-2004, IS 2148-2004 for Gas Group IIC	LF 71 FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0066/05-09 dtd. 05.06.2009	04.06.2019
			LF80 FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0062/06-09 dtd. 05.08.2009	04.07.2019
			LF 90 S/L FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0063/06-09 dtd. 06.08.2009	05.08.2019
			LF 100L FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0011/04-08 dtd. 16.04.2008	15.04.2018
			LF 112M FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0064/06-09 dtd. 07.08.2009	06.08.2019
			LF 132 S/M FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0012/04-08 dtd. 16.04.2008	15.04.2018
		Flameproof Break enclosure type ( <b>Ex “d”</b> ) As per IS 13346-2004, IS 2148-2004 for Gas Group I IIA & IIB	LF 160M/L FLP/WP 3-Phase Induction Motor	ERTL(E)/TES/L077/0090/06-09 dtd. 10.08.2009	09.08.2019
			LF71-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0086/06-09 dtd. 18.08.2009	17.08.2019
			LF80-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0085/06-09 dtd. 24.08.2009	23.08.2019
			LF90S/L -BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0082/06-09 dtd. 25.08.2009	24.08.2019
			LF100L-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0080/06-09 dtd. 26.08.2009	25.08.2019
			LF112-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0078/06-09 dtd. 27.08.2009	26.08.2019
			LF132 S/M-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0075/06-09 dtd. 27.08.2009	26.08.2019
			LF160 M/L-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0073/06-09 dtd. 28.08.2009	27.08.2019
			LF180 M/L-BRK FLP/WP 3-Phase Induction Break Motor	ERTL(E)/TES/L077/0067/06-09 dtd. 01.09.2009	31.08.2019
		Flameproof enclosure type `d` As per IS 13346-2004, IS 2148-2004 for Gas Group I (Rod Mounted)	LF 160RM FLP/WP 3-Phase Rod mounted Induction Motor	ERTL(E)/TES/L077/0053/06-09 dtd. 23.07.2009	22.07.2019
3.	CIMFR (CMRI) Dhanbad	IS 2148:2004 (IEC60079-1)	Flameproof motors in LF-250M	CMRI/TC/P/H245 dtd. 15.07.2005 CIMFR/TC/S/H271 Dtd. 09.07.200 (Supp) for T Box,Plug & Socket)	14.07.2015
			Flameproof motors in LF-280S	CMRI/TC/P/H244 dtd. 15.07.2005 CIMFR/TC/S/H271 Dtd. 09.07.2007 (Supp) for T Box,Plug & Socket)	14.07.2015
			Flameproof motors in LF-315L	CMRI/TC/P/H243 dtd. 15.07.2005 CIMFR/TC/S/H271 Dtd. 09.07.2007 (Supp) for T Box,Plug & Socket)	14.07.2015
4.	PESO (Formerly CCE, Nagpur)	Flameproof Electrical Equipment confirming to IS 2148-2004 & IS 13346-2004 ( <b>Ex “d”</b> ) Gas Group I,IIA	LF71,80,90S/L,97,100L,112M,132S/M,160M/L, 180M/L,200M/L,225S/M.	A/P/HQ/MH/104/1399(P200346) dtd. 06.08.2007	05.08.2012
			LF-250M, LF-280S & LF-315S	A/P/HQ/MH/104/1174(P176692) dtd. 05.05.2006	04.05.2011
		Flameproof Break Motors	LF-71-BRK., LF-80-BRK., LF-90 S/L-BRK, LF-100L- BRK, LF-112M-BRK.LF-132 S/M-BRK., LF-160 M/L- BRK, LF-180 M/L-BRK.	A/P/HQ/MH/104/2017(P241704) dtd. 09.12.2009	08.12.2014
		Gas group <b>IIC</b>	LF 100L & LF 132 S/M	A/P/HQ/MH/104/1543(P213262) dtd. 04.06.2008	03.06.2013
			LF 71 IIC	A/P/HQ/MH/104/1875(P234662) dtd. 03.08.2009	02.08.2014
			LF80, LF90S/L, LF 112M, LF 160M/L	A/P/HQ/MH/104/2017(P241704) dtd. 09.12.2009	08.12.2014

**Laxmi Hydraulics Pvt. Ltd.**  
**Product Approval Index**

SR. No.	Agency	Product / Approval type	Range of Products	Reference - Approval / Certificate Licence No. with date	Due On
		Increased Safety <b>Ex'e'</b> As per IS 6381-2004 (IEC 60079-7)	LF71,80,90S,100L,112M,132M,160M,180L,200L, 225M, 280M and 315	A/P/HQ/MH/104/1398(P200345) dtd. 08.08.2007	07.08.2012
		Non Sparking <b>Ex 'nA'</b> IS/IEC 60079-15 (2005) & IS/IEC 60079-0 (2004)	LF63 to LF 355 S/M/L	A/P/HQ/MH/104/2053(P246512) dtd. 03.03.2010	02.03.2015
		Type 'nA' approval valid for type 'e'	LF63 to LF 355 S/M/L	ADDANDUM to : A/P/HQ/MH/104/2053(P246512) Issue Date : 10.12.2010	---
		Flameproof Equipments as per IS/IEC 60079-1 : 2007	LF 71M - 1Phase	A/P/HQ/MH/104/2233(P260727) dtd. 10.12.2010	09.12.2015
			LF 63M-N	A/P/HQ/MH/104/2275(P264148) dtd. 27.01.2011	26.01.2016
			LF 71M-N	A/P/HQ/MH/104/2307(P266496) dtd. 10.03.2011	09.03.2016
			LF 80M-N	A/P/HQ/MH/104/2308(P266497) dtd. 10.03.2011	09.03.2016
5.	DGMS, Dhanbad	Flameproof Enclosure (Coal mines)	LF-160 M/L	527 of 2005, 493/294/EHQ, Dhanbad dtd. 04.03.2005	04.03.2014
			LF-180 M/L	551 of 2006, 493/166/EHQ, Dhanbad dtd. 11.01.2008	21.11.2011
			LF-200 L	552 of 2006, 493/2402/EHQ, Dhanbad dtd. 12.10.2007	21.11.2012
			LF-225 S/M	553 of 2006, 493/173/EHQ, Dhanbad dtd. 11.01.2008	21.11.2011
			LF-225 S/M (EMICO ELECON)-41KW	623 of 2011, 493/430/EHQ, Dhanbad dtd. 03.03.2011	02.03.2013
			LF-250M	559 of 2007, 493/1826/EHQ, Dhanbad dtd. 03.08.2007	03.08.2011
			LF-280S/M	557 of 2007, 493/1510/EHQ, Dhanbad dtd. 26.06.2007	26.06.2011
			LF-315S/M/L	558 of 2007, 493/1580/EHQ, Dhanbad dtd. 02.07.2007	02.07.2011
		Flameproof Enclosure (Oil Mines)	LF71	212 of 2010, 493/607/EHQ,Dhanbad dtd. 03.03.2010	03.03.2012
			LF80	223 of 2010, 493/3082//EHQ,Dhanbad dtd. 30.09.2010	30.09.2012
			LF90 S/L	239 of 2011, 493/981//EHQ,Dhanbad dtd. 01.06.2011	31.05.2013
			LF100L	224 of 2010, 493/3088 /EHQ,Dhanbad dtd. 30.09.2010	30.09.2012
			LF112M	213 of 2010, 493/611/EHQ,Dhanbad dtd. 03.03.2010	03.03.2012
			LF-132 S/M	195 of 2009, 493/80/EHQ, Dhanbad, dtd.16.01.2009	15.01.2012
			LF-160 M/L	169 of 2008 493/88/EHQ, Dhanbad, dtd.19.01.2009	11.01.2012
			LF-180 M/L	170 of 2008 493/92/EHQ, Dhanbad, dtd.19.01.2009	11.01.2012
			LF-200 L	167 of 2007 493/84/EHQ,Dhanbad, Dtd. 19.01.2009	11.12.2011
			LF-225 S/M	171 of 2008 493/96/EHQ, Dhanbad, dtd.19.01.2009	10.01.2012
			LF-250M	172 of 2008 493/100/EHQ, Dhanbad, dtd.19.01.2009	10.01.2012
			LF-280S/M	168 of 2007 493/2758/EHQ, Dhanbad, dtd. 11.12.2007	10.12.2011
		LF-315S/M/L	173 of 2008 493/196/EHQ, Dhanbad, dtd.11.01.2008	10.01.2012	
6.	Karandikar	Single Phase FLP IM as per IS/IEC 60079-1:2007 Gas group IIC	71M	KLPL/Ex/10-014X dtd. 09.08.2010	08.08.2020