

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

**The list of approved flameproof intrinsically safe equipment is not exhaustive and subject to verification of the approval documents.**

<b>Sl. No.</b>	<b>Description of equipments</b>	<b>Name of Manufacturer (M/S)</b>	<b>Approval no.</b>	<b>Valid upto</b>
A1	Intrinsically safe insulation tester type-DV MEG 500V conforming to IS:13346-2004 & IS:5780-2002 for use in Zone 1 & Zone 2 hazardous areas of oil mines.	Apollo Power Equipments, 152A, Rashbehari Avenue, Kolkata-700 029	159 of 2007	08.03.2011
A2	Intrinsically safe insulation tester type-DVMEG 1000V conforming to IS:13346-2004 & IS:5780-2002 for use in Zone 1 & Zone 2 hazardous areas of oil mines.	Apollo Power Equipments, 152A, Rashbehari Avenue, Kolkata-700 029	154 of 2006	04.09.2011
E1	Flameproof/weatherproof Temperature Transmitter Assembly model 644HFK5J8M5F6Q4 manufactured by M/S Rosemount Inc., USA conforming to IS:2148-2004, IS:13346-2004, IS:12063-1987 and IS:5780-2002 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	174 of 2008	17.01.2012
E2	Pressure transmitter model-3051 conforming to IS:5780-1980 for use in Zone 1 & Zone 2 hazardous areas of oil mines.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	180 of 2008	02.05.2009
E3	Intrinsically Safe Micro Motion Series 3700 Transmitter, model-3700A1A03DZEZLNZ in aluminium alloy 360 construction category no.PS-00291-Rev A manufactured by M/s Micro Motion, Inc, Boulder, CO 80301 (USA) conforming to IS:2148-2004, IS:12063-1987, IS:5780-2002, IS:13346-2004 & IS:6381-2004 for use in Zone-2 hazardous areas of Oil	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	187 of 2008	30.09.2009

	Mines in India.			
E4	Intrinsically Safe Micro Motion Elite Series CMF 300 Sensor, model-CMF300M355NQBZEEZZZ manufactured by M/S Micro Motion, Inc, Boulder, CO 80301 (USA) conforming to IS:5780-2002 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	188 of 2008	30.09.2009
E5	Intrinsically Safe 375 Field Communicator, model-375FREIKLU in plastic enclosure manufactured by M/S R Stahl HMI Systems GmbH, Colongne, Germany conforming to IS:5780-2002 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	189 of 2008	30.09.2009
E6	Flameproof/weatherproof intrinsically safe enclosure for transmitter head type-TH43, model no.5601AE5PAORE rated at 24 DC/240 V AC in cast aluminium alloy LM-6 construction manufactured by M/S SAAB Marine Electronics AB, S-40251, Goteborg, Sweden conforming to IS:2148-2004, IS:12063-1987 and IS:5780-2002 for use in Zone 1 and Zone-2 hazardous areas of Oil Mines in India.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	192 of 2008	16.12.2009
E7	Intrinsically Safe Micro Motion CMF 400 Mass Flow Meter in cast aluminium alloy, model no. CMF400M437NQBAEZZZ manufactured by M/s Micro Motion, Inc, Boulder, CO 80301 (USA) conforming to IS:5780-2002 for use in Zone 1 and Zone-2 hazardous areas of Oil Mines in India.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	193 of 2008	16.12.2009
E8	Intrinsically Safe Micro Motion Series 1700 Flow Transmitter, model no.1700R11DBFEZZZ manufactured by M/s Micro Motion, Inc, Boulder, CO 80301 (USA) conforming to IS:5780-2002 for use in Zone 1 and Zone-2 hazardous areas of Oil Mines in India.	Emerson Process Management (India) Pvt. Ltd., 82, Panchal Udyog Nagar, Bhimpore, Nani Daman, Daman-396 210	194 of 2008	16.12.2009

FE1	Intrinsically Safe rechargeable cap lamp with in-built battery type no. IS-RH-LED-01 in polycarbonate material of construction conforming to IS:5780-2002, IS:12063-1987 and IS:13346-2004 manufactured by M/S Flameproof Equipments Pvt. Ltd., Mumbai for use in Zone-1 and 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.	176 of 2008	12.02.2012
FE2	Intrinsically safe rechargeable cap lamp with external battery type no. IS-RH-LED-02 in polycarbonate material of construction conforming to IS:5780-2002, IS:12063-1987 and IS:13346-2004 manufactured by M/S Flameproof Equipments Pvt. Ltd., Mumbai for use in Zone-1 and 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.	177 of 2008	12.02.2012
M/D1	(1)M/D Totco make Intrinsically safe Ultra Sonic sensor P/No. 222573-001 rated at 24V (2)M/D Totco make Intrinsically safe Proximity sensor P/No.232389. rated at 12V (3)M/D Totco make Intrinsically safe Horn P/No.220451-001 rated at 24V (4)M/D Totco make Intrinsically safe Draw works encoder P/No.222115-001. rated at 12V (5)M/D Totco make Intrinsically safe return and mud flow sensor P/No. 270700-116 rated at 6.5V (6)M/D Totco make Intrinsically safe Rotary Torque sensor P/No. 40218041-002 rated at 6.5V (7)M/D Totco make Intrinsically safe Drill watch P/No.221436 series rated at 24V (8)M/D Totco make Intrinsically safe calibration switch P/No.219255-001 rated at 9V (9)M/D Totco make Intrinsically safe Pressure Transducer 221212 series rated at 24V sensor model no. 221145-002H	M/D Totco 1200 Cypress Creek Road Cedar Park Texas, USA 78613.	166 of 2007	12.10.2011

	<p>(10)M/D Totco make Intrinsically safe Transducer part no. 40221805-001A rated at 24V</p> <p>(11)M/D Totco make Weather proof Junction box P/No.230364 in stainless steel construction, for terminating intrinsically safe circuits only manufactured by M/S M/D Totco, 1200 Cypress Creek Road, Cedar Park Texas, USA 78613 conforming to IS:5780-2002 and IS:13947(Part-I)-1993 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.</p>			
M/D2	<p>Intrinsically Safe M/D Totco Drilling Instrumentation total system units</p> <p>(1)M/D Totco P/N PR 21 AP-Series Intrinsically Safe Meter PR21AP</p> <p>(2)M/D Totco P/N PR 940238-009 IS Toxic Gas Stand Alone Transmitter</p> <p>(3) M/D Totco P/N 220005-Series Mud Density and Temp Sensor and</p> <p>(4)M/D Totco P/N 221988 Series Conductivity Transmitter manufactured by M/S National Oilwell Varco L.P., dba M/D Totco, 1200 Cypress Creek Road, Cedar Park, Texas, USA 78613 conforming to IS:5780-2002 for use in Zone-1 and Zone-2 hazardous areas of Oil Mines in India.</p>	M/S National Oilwell Varco L.P., dba M/D Totco, 1200 Cypress Creek Road, Cedar Park, Texas, USA 78613.	209 of 2009	10.12.2011
ABB1	<p>Intrinsically safe 2600T series differential pressure transmitter Type 264HSPSBA1E6D3B1 in cast aluminium alloy, LM-6 construction manufactured by M/S ABB Limited, Faridabad conforming to IS: 5780-1980 and IS: 4013-1967 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.</p>	ABB Limited 14, Mathura Road PO: Amar Nagar :Faridabad -121 003 (Haryana).	183 of 2008	08.09.2009
ABB2	<p>Intrinsically safe Electronic Configurable Temperature Transmitter, type no. 653SY1GY7152023 in cast aluminium alloy LM-6 construction manufactured by M/S ABB Limited, Faridabad conforming to IS: 5780-</p>	ABB Limited 14, Mathura Road PO: Amar Nagar :Faridabad -121 003 (Haryana).	184 of 2008	08.09.2011

	1980 and IS: 4013-1967 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India.			
M1	(1)Intrinsically Safe Radar Level Transmitter model Pulsar R05 and R95 fitted in FLP/WP enclosure manufactured by M/s Magnetrol International N.V., Belgium conforming to IS:2148-2004, IS:12063-1987, IS:5780-2002, IS:13346-2004 & IS:6381-2004 & (2) Intrinsically Safe Eclipse Level Transmitter model 705, 707 and 708 fitted in FLP/WP enclosure manufactured by M/s Magnetrol International N.V., Belgium conforming to IS:2148-2004, IS:12063-1987, IS:5780-2002 & IS:13346-2004 for use in Zone 1 and Zone 2 hazardous areas of Oil Mines in India	Magnetrol International N.V. Heinkensstraat 6, 9240 Zele, Belgium	186 of 2008	19.09.2009
S1	Intrinsically safe Electronic Time Cycle Controller model-MEGA 500 conforming to IS:5780-2002 for use in Zone-1 and Zone-2 hazardous areas of oil mines	Sigma Control Systems 9, Stephen House 4 BBD Bag East : First Floor Kolkata-700 001 (West Bengal).	155 of 2006	04.10.2011
Y1	(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. (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. (3)FLP/WP Intrinsically Safe	Yokogawa Electric Corporation 2-9-32, Nakacho Musashino-shi Tokyo, 180-8750 (JAPAN).	182 of 2008	25.07.2009

	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.			
AOI1	Intrinsically safe TON Mile Kilometer indicator system as designated by model no. ADT 2001 in Appleton Explosionproof switch enclosure in malleable iron construction as designated by model no. EDSC175-F23 10/06 and explosionproof cable gland in brass & SS, type no. 753 manufactured by M/S AOI Instrumentation, Louisiana(USA) conforming to IS: 2148-2004, IS:12063-1987, IS:13346-2004 and IS:5780-2002 for use in Zone 2 hazardous areas in Oil Mines in India.	M/S AOI Instrumentation 1196, Petroleum Parkway Broussard Louisiana-70518 (USA).	210 of 2009	30.12.2011