



**Status of Implementation of M.B. Lal Committee recommendations as on November 2015
Refinery Division**

MUMBAI REFINERY

Sr. No.	Item description	Total requirement (Nos.)	PO placed (Nos.)	Item installed (Nos.)	Target date for completion	Remarks (If any)
1	High volume long range monitors (HVLR's) - Remote operated.	16	16	13	Completed	13 nos. have been installed. 3 Nos. are spare to be used at later date.
	High volume long range monitors (HVLR's)- Manual	90	90	87	Completed	Completed. Balance 3 kept as spare for exegencies.
2	Automatic actuated Rim Seal Fire detection & suppression system for class "A" floating roof tanks (FRT)	27	27	24	30.04.2016 (Balance tanks under maint. and are Hydrocarbon free.)	Phase 1: 2 tanks competed (Tk 114 & 411) Phase 2: Total 16 tanks, (15 completed). Status of balance 1 tank: Tk 119 – Tank de-commissioned for M&I. Phase 3: Total 9 tanks. (7 completed) Status of balance 2 tanks, tank (Tk 124): de-commissioned for M&I, tank 115 have CF3I system-shall be taken later. For 12 no. of tanks to be provided with dome roof to ensure the problem due to failure of roof drain line is eliminated,tendering action is in progress for provision of dome roof for identified tanks.
3	Hydrocarbon Detection (HC) & Alarms system	153	153	153	31.03.2015	All HC installed. 150 HC commissioned. 3 to be commissioned as part of CDU 4 project. 421 Nos. on line HC detectors are already installed in refinery.
4	Remote operated shut off valve (ROSOV)	255	-	38	31.03.2016	35 completed (26 of Phase I & 9 of Phase II). Balance 217 material at site, installation is in progress and shall be completed by March 2016.
5	Replacement of Hammer Blinds with double block and bleed valve (DBBV)	---	---	---	---	There are no hammer blinds.
6	Medium Expansion Foam Generators (MEFG)	4	4	4	Completed	---
7	Mass Flow Meters (MFM)	---	---	---	---	Already available
8	Emergency Kits	---	---	---	---	Already Available.
9	Closed circuit television (CCTV)	6	6	6	31.03.2015	52 CCTV has been installed along the periphery and movements are continuously monitored by CISF in control room situated at main gate.
10	Up-gradation of fire water system - double fire contingencies	1000 mtrs of lines comprising of 5 systems to be modified	1000 mtrs	1000 mtrs		Completed
11	Emergency Response Centre (ERC)	---	---	---	---	Already available
12	Training	---	---	---	---	Training being imparted regularly.



Status of Implementation of M.B. Lal Committee recommendations as on November 2015

Refinery Division

KOCHI REFINERY

Sr. No.	Item description	Total requirement (Nos.)	PO placed (Nos.)	Item installed (Nos.)	Target date for completion	Remarks (If any)
1	High volume long range monitors (HVLR's)	130, including refinery and shore tank farm	PO Placed for 139. Received 130. 9 nos spare	130 nos HVLR installed.	31.3.2015	Completed.
2	Automatic actuated Rim Seal Fire detection & suppression system for class "A" floating roof tanks (FRT)	21 at refinery	21	Rim seal system on 21 tanks completed.	31.08.2015	Completed.
3	Hydrocarbon Detection (HC) & Alarms system	---	---	HC detectors and alarm system already available	NA	HC detectors and alarm system already available
4	Remote operated shut off valve (ROSOV)	---	---	STF tanks are provided with remote operated MOVs	NA	STF tanks are provided with remote operated MOVs. In the refinery PR is given for procurement and installation of MOVs
5	Replacement of Hammer Blinds with double block and bleed valve (DBBV)	---	---	---	NA	There are no hammer blinds.
6	Medium Expansion Foam Generators (MEFG)	8	8	8	Completed	Installation completed.
7	Mass Flow Meters (MFM)	---	---	---	---	---
8	Emergency Kits	1	1	1	Completed	Completed.
9	Closed circuit television (CCTV)	---	---	CCTV already provided	NA	CCTV already provided
10	Up-gradation of fire water system - double fire contingencies	Piping approx 6500M and 2800M has to be resized in Refinery / STF respectively. New pumps 4 Nos required at STF	PO has awarded for piping fabrication, pumps and pumphouse construction at STF. PO awarded for the Piping jobs (part-1) in the refinery	Completed	30.6.2015	Completed
11	Emergency Response Centre (ERC)	---	---	---	---	Already available
12	Training	---	---	---	---	Complied.