OIL INDIA LIMITED

(A Government of India Enterprise)
P.O. Duliajan – 786602, Assam, India
Website: www.oil-india.com

Corrigendum No. 7 to IFB No. CPI6812P22

Tender for Construction of Bowser Parking Area at Duliajan Distt. Dibrugarh (Assam)

1. This Corrigendum is issued to notify the following:

i. This Corrigendum is issued to notify that NIT including Terms, conditions, specifications and stipulations of the Bidding Document shall stand modified to the extent indicated here below under column "Modified Clause" of **Annexure- I**.

ii. HSE General Points for adherence by Contractor performing the works under this contract is provided under **Annexure-II**

iii. Extension of the last date of online registration and extension of Bid Closing/ Technical Bid Opening Date as under:

(i) Last day for online registration in OIL's e-tender portal (For new vendors)	**:**	03.12.2021, 15:30 hrs. IST.
(ii) Bid Closing Date & Time	**:**	10.12.2021, 11:00 hrs. IST.
(iii) Technical Bid Opening Date & Time	**:**	10.12.2021, 14:00 hrs. IST.

2. All other terms and conditions of the tender remain unaltered.

3. All the prospective bidders are requested to regularly visit OIL's Website: www.oil-india.com and e-procurement portal https://etender.srm.oilindia.in/irj/portal for further announcements/latest information related to this tender

Annexure-I to Corrigendum No. 7 to IFB No. CPI6812P22

STATEMENT SHOWING EXISTING VIS-À-VIS MODIFIED PROVISIONS OF TERMS & CONDITIONS, SPECIFICATIONS IN VARIOUS SECTIONS OF BIDDING DOCUMENT

SL. No	RFQ Section	Reference Clause	Subject	Type	Original	Modified Clause
1	Volume-I M Page 104 of 185	**CLAUSE 10C**	Dismantled Material Employers Property	**Modified**	The Contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as the Employer's Property and such materials shall be disposed off to the best advantage of the Employer according to the instructions in writing issued by the Engineer-in-Charge	The Contractor shall dismantle (with contractors equipment/ manpower/any other required facilities) existing structures/ equipment /piping which might be required for this project and shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as the Employer's Property and such materials shall be disposed off to the best advantage of the Employer according to the instructions in writing issued by the Engineer-in-Charge.
2	Volume II Sec-A4: Page 11 of 22	**Clause 4.03.04**	Fencing	**Deleted**	The CBUS plant operation area and administrative block shall be separated by chain link fence. The extent of fence is shown in plot plan. Minimum 2.4 metre high fencing above toe wall of 0.6m shall be provided to demark the battery limit of WIS from total plot. Fencing shall comprise 2.4 metre high galvanised chain link fencing of minimum 8 gauge (including PVC coating) of	Clause Stands Deleted

					mesh size 75 mm and galvanised concertina. Galvanised barbed wires of a height of 0.6 metre shall be provided above the chain link fence. Steel entry gate shall be provided for fenced areas. Toe wall shall be minimum 250 mm thick and 600 mm above the formation level. 3.0M. M.S. angle post with 600mm anti-climbing inclined part (—Y‖ shaped) embedded in cement concrete block of toe wall. In the inclined part of the post spiral human barrier by concertina along with straight barbed wire to be provided. Steel gate shall be provided at entry.	
3	Volume II Sec-A4: Page 11 of 22	**Clause 4.03.03**	Boundary Wall	**Modified**	Boundary wall shall be made off RC framed with brick masonry and plaster over the brickwork. RC column with foundation tie beam. Height of Boundary wall shall be 3.0m above the formation level. M.S. angle post with 600mm anti-climbing inclined part (—Y‖ shaped)embedded in cement concrete of RC column. In the inclined part of the post spiral human barrier by concertina along with straight barbed wire to be provided. Steel gate shall be provided at entry of plant battery limit and a cattle catcher to be	Boundary wall shall be made off RC framed with brick masonry and plaster over the brickwork. RC column with foundation tie beam. Height of Boundary wall shall be 3.0m above the formation level. M.S. angle post with 600 mm anti-climbing inclined part (—Y‖ shaped) embedded in cement concrete of RC column. In the inclined part of the post spiral human barrier by concertina along with straight barbed wire to be provided. Steel gate shall be provided at entry of plant

					provided at main entrance of plant area. This includes the boundary wall between Phase I & Phase II. Dismantling of existing boundary as per plot plan and repairing / upgradation of the same where it will be intact as per plant layout and make it compatible with the new boundary wall. Painting shall be done all boundary wall as per direction of Engineer in Charge	battery limit and a cattle catcher to be provided at main entrance of plant area. Dismantling of existing boundary as per plot plan and repairing / upgradation of the same where it will be intact as per plant layout and make it compatible with the new boundary wall. Painting shall be done all boundary wall as per direction of Engineer in Charge.
4	Volume II Sec-A4: Page 8 of 22	**Clause 3.05.00**	Access Control System	Clarification		Supply/Issuing /activation of punch card is in the scope of Phase –II contractor.
5	Volume II Sec-A4: Page 2 of 22	**Clause 2.02.01**	General Electric Data	Addition	The various system voltage levels are considered with the following nominal values and respective system fault levels: Incoming supply from new CBUS (phase-I) for Illumination: 415 V, 3-Ph, 4-W, 50 Hz, 9 kA for1 Sec Normal illumination & small power loads : 240V, 1-Ph, 2 W, 50Hz Critical Illumination (DC supply) : 110V DC	The various system voltage levels are considered with the following nominal values and respective system fault levels: Incoming supply from new CBUS (phase-I) for Illumination: 415 V, 3-Ph, 4-W, 50 Hz, 9 kA for1 Sec Normal illumination & small power loads : 240V, 1-Ph, 2 W, 50Hz Critical Illumination (DC supply) :

					Frequency : 50 Hz	110V DC Frequency : 50 Hz A 415V 3ph. 3W incoming power supply from PMCC would be considered for feeding 240V ph-ph plant illumination for phase-II through a separate 415/240 V lighting transformer.
5	Volume II B2-1: Page 1 of 3	**Clause 1.01.00**	General Electric Data	Addition	The various system voltage levels are considered with the following nominal values and respective system fault levels: Incoming supply from new CBUS (phase-I) for Illumination: 415 V, 3-Ph, 4-W, 50 Hz, 9 kA for1 Sec Normal illumination & small power loads : 240V, 1-Ph, 2 W, 50Hz Critical Illumination (DC supply) : 110V DC Frequency : 50 Hz	The various system voltage levels are considered with the following nominal values and respective system fault levels: Incoming supply from new CBUS (phase-I) for Illumination: 415 V, 3-Ph, 4-W, 50 Hz, 9 kA for1 Sec Normal illumination & small power loads : 240V, 1-Ph, 2 W, 50Hz Critical Illumination (DC supply) : 110V DC Frequency : 50 Hz A 415V 3ph. 3W incoming power supply from PMCC would be considered for feeding 240V ph-ph plant illumination for phase-II through a separate 415/240 V lighting transformer.

5	Volume II B2-3: Page 1 of 16	**Clause 1.01.02**	Basis of Design	Addition	Lighting distribution board (LDB) will receive power from 415 V main ACDB of new CBUS station (Phase-I). Lighting distribution board shall be preferably placed in driver room.	Lighting distribution board (LDB) will receive power from 415 V main ACDB of new CBUS station (Phase-I). Lighting distribution board shall be preferably placed in driver room. A 415V 3ph. 3W incoming power supply from PMCC would be considered for feeding 240V ph-ph plant illumination for phase-II through a separate 415/240 V lighting transformer.
5	Volume II Sec-A4: Page 2 of 22	**Clause** 1.02.01	Normal A.C. Lighting	Addition	a) This will be provided by A.C. lighting fixtures distributed throughout the plant. These lights will be ON as long as the A.C. supply is available. b) A.C. lighting fixtures will be fed from lighting distribution board., which will receive power from 415 V main ACDB of new CBUS terminal. Lighting distribution board shall be used for illumination & small power distribution of indoor area like driver rest room/canteen, security room etc. & outdoor illumination with the help of high mast tower.	a) This will be provided by A.C. lighting fixtures distributed throughout the plant. These lights will be ON as long as the A.C. supply is available. b) A.C. lighting fixtures will be fed from lighting distribution board., which will receive power from 415 V main ACDB of new CBUS terminal. Lighting distribution board shall be used for illumination & small power distribution of indoor area like driver rest room/canteen, security room etc. & outdoor illumination with the help of high mast tower. A 415V 3ph. 3W incoming power supply from PMCC would be considered for feeding 240V ph-

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<tr><td></td><td></td><td></td><td></td><td></td><td></td><td>ph plant illumination for phase-II through a separate 415/240 V lighting transformer.</td></tr>
<tr><td>6</td><td>Volume II Sec-A4: Page 3 of 22</td><td>Clause 2.04.01.01</td><td>Illumination System</td><td>Modification</td><td>Illumination loads will be distributed from lighting Distribution Board (LDB) placed in driver rest room. Lighting distribution board will receive power at 415 V level from Main lightingDistribution board (MLDB) from new CBUS (phase-I). Fault level of lighting DB & selected equipment will be 9 kA for 1 sec.</td><td>Illumination loads will be distributed from lighting Distribution Board (LDB) placed in driver rest room. Lighting distribution board will receive power at 415 V level from PMCC from new CBUS (phase-I). Fault level of lighting DB & selected equipment will be 9 kA for 1 sec.</td></tr>
<tr><td>7</td><td>Volume II Sec-A4: Page 3 of 22</td><td>Clause 2.04.01.02</td><td>Illumination System</td><td>Correction</td><td>Normal cum emergency Illumination will be fed by 240V AC supply, single phase, while critical illumination will be fed by 110 V DC light with inbuilt battery & battery charger Plant illumination system will comprise of following:
i) Normal Illumination (Normal AC power).
ii) Critical illumination (DC power)</td><td>Illumination voltage level will be categorized two levels-
1. Normal Illumination (230V Ph to Ph).
2. Critical Illumination (110V DC potable light)</td></tr>
<tr><td>8</td><td>Volume II Sec-A4: Page 3 of 22</td><td>Clause 2.04.01.07</td><td>Illumination System</td><td>Addition</td><td>Illumination system will be designed based on minimum illumination levels as specified below:
<table>
<tr><th>Sl. No</th><th>Illumination Area</th><th>LUX level</th></tr>
<tr><td>1</td><td>Main roads</td><td>20</td></tr>
<tr><td>2</td><td>Secondary roads</td><td>10</td></tr>
</table></td><td>Illumination system will be designed based on minimum illumination levels as specified below. Illumination level of the areas not mentioned below shall be governed by OISD-RP-149 and OISD-STD-244.
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<tr><td>3</td><td>Truck Parking Area</td><td>20</td></tr>
<tr><td>4</td><td>Drivers Rest Room</td><td>100</td></tr>
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<td>9</td>
<td>Volume II
B2-3: Page 3 of 16</td>
<td>Clause 1.04.04</td>
<td>Method of Calculation</td>
<td>Addition</td>
<td>Minimum lux level shall be considered generally as per OISD-STD-244 & the various areas applicable for the plant shall be illuminated with the following minimum lux levels
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<tr><td>Sl No</td><td>Illumination Area</td><td>LUX level</td></tr>
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<tr><td>2</td><td>Secondary roads</td><td>10</td></tr>
<tr><td>3</td><td>Security Room/Driver Room</td><td>100</td></tr>
<tr><td>4</td><td>Stairs</td><td>50</td></tr>
<tr><td>5</td><td>Corridors</td><td>70</td></tr>
<tr><td>6</td><td>Truck Parking Bay</td><td>20</td></tr>
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						governed by OISD-RP-149 and OISD-STD-244.
10	Volume II Sec-A4: Page 3 of 22	New Clause 2.04.01.13	Illumination System	Addition of New Clause under Main clause 2.04.01		As Per CEA Regulation 110, areas within 15 meters from the edge of crude oil tanker parking area is Hazardous area. Only flameproof lights/light fixture, DB(s), JB(s) with double compression cable gland shall be used in hazardous areas
11	Volume II Sec-A4: Page 4 of 22	Clause 2.04.02.03	Earthing System	Addition of new line under clause 2.04.02.03		4 Ohms & 1 Ohm are the maximum limits.
12	Volume II Sec-A4: Page 4 of 22	New Clause 2.04.02.09	Earthing System	Addition of New Clause under Main clause 2.04.02		Design of Earth Pits and Earthing Grid sizing etc. shall be as per the latest version of IS-3043:2018
13	Volume II Sec-A4: Page 5 of 22	New Clause 2.04.03.03	Lightning Protection system	Addition of New Clause under Main clause 2.04.03		1) Lightning Risk Assessment Study shall be carried out as elaborated in IS 2309 and IS/IEC 62305 for the complete C-BUS installation covering Phase-I & Phase – II. (2) Lightning Protection System (LPS) shall be designed based on the above risk assessment study. Rolling Sphere Method as per IS/IEC 62305 shall be followed in designing LPS.

						(3) Since the installation falls under oil mine, as per DGMS guidelines, the provisions as mentioned in IEC 62305-3 shall be followed with regards to lightning protection of the installation. (4) The earthing system used in conjunction with LPS shall be in accordance with IS-3043 and be designed in such a manner as to prevent the risk of conduction, induction and feedback while discharging the lightning strike to earth.
14	Volume II Sec-A4: Page 5 of 22	Clause 2.04.03.02	Lightning Protection system	Modified	Dedicated lightning earth pits will be considered for lightning protection envisaged through high mast lighting tower (i.e 30 Meter).	Dedicated lightning earth grid shall be considered for lightning protection system.
15	Volume II Sec-A4: Page 5 of 22	Clause 2.04.04.03	Cabling system	Modified	Ladder & perforated type cable tray with hot dip galvanized shall be considered.	FRP Fire Retardant type Cable Trays shall be considered/ provided.
					Cable trays shall be complete with all necessary hot dip galvanized sheet steel accessories such as coupler plates, ground continuity connections, nuts, bolts, washers, hangers, clamps etc. Also horizontal/vertical bends, horizontal/vertical Tee, Reducers,	FRP Fire Retardant type Cable Trays shall be considered/ provided.

					Horizontal cross-pieces, protective covers shall be supplied along with straight runs in order to take care of cable tray alignments in different routes.	
16	Volume II Sec-A4: Page 6 of 22	Clause 2.05.01.05	Cabling System installation	Deleted	All cable trays and accessories shall preferably be prefabricated, hot dip galvanized for tray system design	Clause Stands Deleted
17	Volume II Sec-A4: Page 6 of 22	Clause 2.05.03.02	Earthling & Lightning Protection System Installation	Addition	Lightning installation work will be conducted as per latest amendment of Indian standard (IS: 2309) & OISD standards (OISD: 180) as amended up to date in India.	Lightning installation work will be conducted as per latest amendment of Indian standard (IS: 2309) & OISD standards (OISD: 180) as amended up to date in India. Codes IS/IEC 62305 along with IS-2309 & OISD-GDN-180 to be referred.
18	Volume II Sec-A4: Page 12 of 22	Clause 5.01.01	Overall Plant layout	Addition/Deletion	Following statutory norms shall be considered for plant layout: 1. Indian Factory Act. 2. Indian Explosives Act. 3. Petroleum Act 4. OISD-STD-189. 5. OISD-STD-244.	Following statutory norms shall be considered for plant layout: 1. Mines Act 1952 2. Indian Explosives Act. 3. Petroleum Act 4. OISD-STD-189. 5. OISD-STD-244 6. OISD-STD-118 7. Indian Electricity Act 2003 8. CEA Regulation 2010.
19	Volume II	Clause 1.0 & 2.0	ELECTRICAL CODES AND STANDARDS	Addition/Deletion	**1.0 OSID Standard** **a)** OISD-STD-244 Storage and handling of petroleum products at Depots and	**2.0 OSID Standard** a) OISD-STD-244 Storage and handling of petroleum products at

	Appn-AI-Page: 15 of 26				terminals including standalone crude oil Storage facilities b) OSID-STD-113 Classification of Area for electrical installations of Hydrocarbon Processing& handling facilities. c) OISD-RP- 146 Recommended Practices - Preservation of Idle Electrical equipment. d) OSID-RP-147 Inspection & safe practices during electrical installations. e) OSID-RP-149 Design aspects for safety of electrical systems. f) OSID-RP-108 Recommended practices on Oil storage and handling g) OISD-GDN-180 Recommended Practices-Earthing and Lightning Protection h) OISD-STD-118 Layouts for Oil and gas installations i) OISD-STD-117 Fire protection facilities for Petroleum depots, terminals, pipelineInstallations and Lube oil installations	Depots and terminals including standalone crude oil Storage facilities b) OSID-STD-113 Classification of Area for electrical installations of Hydrocarbon Processing& handling facilities. c) OISD-RP- 146 Recommended Practices - Preservation of Idle Electrical equipment. d) OSID-RP-147 Inspection & safe practices during electrical installations. e) OSID-RP-149 Design aspects for safety of electrical systems. f) OSID-RP-108 Recommended practices on Oil storage and handling g) OISD-GDN-180 Recommended Practices-Earthing and Lightning Protection h) OISD-STD-118 Layouts for Oil and gas installations i) OISD-STD-117 Fire protection facilities for

					j) OISD-STD-173 Fire prevention and protection system for electrical installation. **2.0 IEC Standard** a) IEC Pub 34 Electric Motors b) IEC Pub 34 Transformers c) IEC Pub 79-1 Flameproof Electrical Equipment d) IEC 947-4-1 Low voltage switchgear and control gear. e) IEC Pub 529 Enclosure protection classification (IP) f) IEC Pub 79-0 Electrical equipment for hazardous area general rules. g) IEC Pub 79-14 Electrical installations in gaseous explosive atmospheres h) IEC 62305 Lightning protection system	Petroleum depots, terminals, pipelineInstallations and Lube oil installations j) OISD-STD-173 Fire prevention and protection system for electrical installation. k) OISD – STD - 137 **2.0 IEC Standard** a)IEC Pub 34 Electric Motors b)IEC Pub 34 Transformers c)IEC Pub 79-1 Flameproof Electrical Equipment d)IEC 947-4-1 Low voltage switchgear and control gear. e)IEC Pub 529 Enclosure protection classification (IP) f) IS/IEC 62305Lightning protection system
20	Volume II Appn-AI-Page: 15 of 26	Clause 1.0 & 2.0	ELECTRICAL CODES AND STANDARDS	Modification	**3.0 Indian Standard** a) IS - 5216 Guide for safety procedures and practices in electrical works. b) IS- 13234 Guide for short circuit calculations c) IS 732 Code of practice for electrical wiring installation d) IS - 5572 Classification of hazardous area	**3.0 Indian Standard** a) IS - 5216 Guide for safety procedures and practices in electrical works. b) IS- 13234 Guide for short circuit calculations c) IS 732 Code of practice for electrical wiring installation d) IS - 5572 Classification of hazardous area

					e) IS - 5571 Guide for selection of electrical equipment for hazardous area f) IS - 694 PVC Insulated cables for working voltages up to and including1100V. g) IS - 2274 Code of practice for electrical wiring installation –system voltages exceeding 650 V h) IS - 6665 Code of practice for industrial lighting i) IS - 3646 Interior illumination: Part i and Part-ii j) IS - 1944 Code of practice for lighting of public thorough fares. k) IS - 7689 Guide for control of undesirable static electricity. l) IS - 2309 Protection of buildings and allied structures against lighting m) IS - 1646 Code of practice for fire safety of buildings – electrical installations. n) IS - 3034 Code of practice for fire safety of industrial buildings – electrical generating and distributing station. o) IS - 3043 Earthing	e) IS - 694 PVC Insulated cables for working voltages up to and including1100V. f) IS - 6665 Code of practice for industrial lighting g) IS - 3646 Interior illumination: Part i h) IS - 1944 Code of practice for lighting of public thorough fares. i) IS - 7689 Guide for control of undesirable static electricity. j) IS - 2309 Protection of buildings and allied structures against lighting k) IS - 1646 Code of practice for fire safety of buildings –electrical installations. l) IS - 3034 Code of practice for fire safety of industrial buildings – electrical generating and distributing station. m) IS - 3043 Earthing n) IS- 1180 Outdoor Type Oil Immersed Distribution

					p) IS - 2148 FLP Enclosure q) IS- 1180 Outdoor Type Oil Immersed Distribution Transformers upto 2500 kVA.	Transformers upto 2500 kVA. o) IS 12615:2018 (For 3 phase Induction Motors) p) IS/IEC 61439 (For LT Switchgear) q) IS/IEC 60079 (For Electrical Equipment in Hazardous Area) r) IS 7098 : Part I (For XLPE Cables) s) IS 1554 : Part I (for PVC Cables) t) IS 1255 (COP for Cable Handling) u) IS/IEC 62305 (Lightning Protection)
21	Volume II B2-1: Page 2 of 3	Clause 5.01.00	Testing & erection equipment	Modification	The major testing equipment as minimum that are required shall be brought at site by the contractor are listed below : a) Hand operated Megger-1 KV and 500 Volt Grade. b) Hand driven Earth Resistance Megger, range 0-1/3/30 Ohms. c) Multi meters, test lamp etc.	The major testing equipment as minimum that are required shall be brought at site by the contractor are listed below : a) Digital IR Tester' b) Digital Earth Resistance Tester c) Multi meters, test lamp etc. d)Clamp Meter
22	Volume II B2-1: Page 3 of 3	Clause 6.02.00	DRAWING,DATA, INFORMATION AND MANUAL	Addition	**To be submitted after award of contract for review & approval** a) Design basis report of electrical power distribution for phase-II b) Illumination single line diagram	**To be submitted after award of contract for review & approval**

					c) Technical specification/Technical data sheet of all equipments. d) Protection & metering single line diagram of panels & DBs etc. e) Mounting details of equipment and structure. f) Design calculation, GA drawings for structure and equipment supporting structure, and subsequently detailed drawings. g) Equipments layout diagrams. h) Power & control cable & cable tray routing layout diagram. i) Earthing protection layouts j) Lightning protection layouts. k) Illumination layouts. f) Bill of materials of complete electrical system of phase-II with make. g) List of Mandatory, recommended and commissioning spares. h) Quality assurance plan of all electrical equipments. i) Type test reports of all electrical equipments. j) Power & control cable schedule. k) Any other drawings, data, literature, certificates as required for satisfactory, Installation, operation & maintenance.	a) Design basis report of electrical power distribution for phase-II b) Illumination single line diagram . c) Technical specification/Technical data sheet of all equipments. d) Protection & metering single line diagram of panels & DBs etc. e) Mounting details of equipment and structure. f) Design calculation, GA drawings for structure and equipment supporting structure, and subsequently detailed drawings. g) Equipments layout diagrams. h) Power & control cable & cable tray routing layout diagram. i) Earthing protection layouts j) Lightning protection layouts. k) Illumination layouts. f) Bill of materials of complete electrical system of phase-II with make. g) List of Mandatory, recommended and commissioning spares. h) Quality assurance plan of all electrical equipments.

						i) Type test reports of all electrical equipments. j) Power & control cable schedule. k) Any other drawings, data, literature, certificates as required for satisfactory Installation, operation & maintenance. l. Lightning Risk Assessment Study Report for the complete installation covering Phase-I & Phase-II m. Layout of Hazardous Area for the complete installation covering Phase-I & Phase-II n. Layout of Electrical Cables in the installation.
23	Volume II B2-3: Page 3 of 16	Clause 2.01.05	Equipment and Material	Modification	Earth leakage circuit breaker shall be provided in outgoing feeders of indoor & outdoor lighting distribution boards	Earth Leakage Protective Device complying to CEA Regulation 42 shall be provided in outgoing feeders of indoor &outdoor lighting distribution boards.
24	Volume II B2-3: Page 5 of 16	Clause 2.06.00	Switch & Switch Board	Addition		Modular switch boards to be used in Non Hazardous Areas like Driver's Rest Room etc.
25	Volume B2-3: Page 7 of 16	Clause 2.15.00 (b)	High Lighting mast	Modification	The mast shall be delivered only in three/ four sections & shall be joined together by slip stressed fit method at site. No site welding or	The mast shall be delivered in maximum three sections & shall be joined together by slip stressed fit method at site. No

					bolted joints shall be done on the mast.	site welding or bolted joints shall be done on the mast.
26	Volume II B2-3: Page 7 of 16	Clause 2.15.00	High Lighting mast	Addition		Following to be added in the specifications of Highmast Lighting System: (1) The mast shaft shall be made with best steel in compliance with BS: EN 10025 S355 J0. Minimum plate thickness shall be 5mm (bottom section), 4mm (middle section) and 4mm (top section). (2) Material of the mast sections shall conform to IS: 2062. The mast sections shall be hot dip galvanized to minimum 80 microns both inside and outside conforming to IS: 4759-1984, IS: 2629-1985, IS: 2633-1072. (3) Mast structure shall be designed to withstand wind velocity of 180km/hr. with 3 sec. gust at a height of 10 mtrs. above ground level conforming IS: 875 part III - 1987 and should have wind load factor 1.25 and material factor 1.15. (4) The base flange shall be provided with gusset and high tensile anchor bolts (minimum

						size M30); All bolts shall be hot dip galvanised. (5) The bottom most section shall accommodate winch electric drive, cable, plug/socket etc. with a proper door opening in order to permit clear access to these components. The door shall be dustproof, vermin proof and weather protect (IP 55) and shall be provided with suitable locking arrangement. (6) Lantern carriage shall be operated with a three-point (three ropes) system for preventing wobbling of the carriage during raising and lowering. (7) The wire ropes shall be flexible marine grade and non-corrosive stainless steel grade SS 316. The wire rope shall be continuous without any joints or any bolted joint. A minimum 8 turn of wire rope shall be on the drum when the lantern carriage is fully lowered. (8) Winch assembly, meant for hoisting of lantern carriage,

						shall be a double winch (Double Drum Double Gear) and shall be fixed in the base of the mast and shall have provision to operate both manually and electrically. The winch shall be suitably designed to handle the total weight of lantern carriage assembly with all fittings and accessories with required factor of safety. It shall have Double Gear Double Drum with rope adjustment system gear box so that the drums can be rotated individually and in combination. (9) The winch drive unit shall be totally enclosed flameproof (explosion proof) Ex-d type, FLP squirrel cage bidirectional induction motor with following characteristic: a) Supply voltage: 415 V, 3 phase, 50 HZ b) Insulation: Class F, temperature class limited to class B c) Class of protection: IP 65 min, Weather resistant d) Enclosure: Flameproof enclosure suitable for use in Zone -1 and presence of Gas Group IIA and IIB Hazardous

						Area as per IS/IEC 60079-1(2007) e) The motor shall conform to the following standards: IS/IEC 60079-1(2007) IS/IEC 60034-1,2004 f) Make- Crompton Greaves/ Kirloskar/ Siemens/ Bharat Bijlee / Marathon/ ABB (10) The Feeder Pillar/control panel shall be incorporated within a Flameproof (Explosion proof) Ex-d type FLP enclosure suitable for use in Hazardous Area Zone -1, Gas Group IIA and IIB as per IS/IEC 60079-1(2007). FLP enclose shall be fitted on self-supporting, floor mounted stand. Suitable canopy shall be provided over the enclosure to protect it from direct sunlight and rain. Following switchgear/components to be accommodated inside the FLP enclosure. All the cable entry to the enclosure shall be through suitably sized double compression type FLP Glands.

28	Volume II B2-3: Page 8 of 16	Clause 3.01.01	Testing Equipment	Modification	The Contractor will provide such checking and testing equipment as test lamp, buzzer, 500 volt meggar, earth meggar, lux-meter etc. and also other testing equipment as required.	The Contractor will provide such checking and testing equipment as test lamp,buzzer, Digital IR Tester & Digital Earth Resistance Tester lux-meter etc. and also other testing equipment as required.
29	Volume II B2-4: Page 6 of 16	Clause 3.10.01	Testing Equipment	Modification	The major testing equipment that are required shall be provided by the Contractor are listed below : a) Insulation Tests i) Power operated Meggar- 1 KV and 10 KV grade ii) Hand operated Meggar- 1 KV grade and 500V grade b) Hand driven earth Resistance Meggar, range 0-1/3/30 ohms. c) Tong testers of suitable ranges. d) Multimeters, test lamp, field telephone with buzzer set, different gauges etc	The major testing equipment that are required shall be provided by the Contractor are listed below : a) Insulation Tests i) Digital IR Tester & Digital Earth Resistance Tester. b) Hand driven earth Resistance Meggar, range 0-1/3/30 ohms. c) Tong testers of suitable ranges. d) Multimeters, test lamp, field telephone with buzzer set, different gauges etc
30	Volume II Sec-A4: Page 2 of 22	Clause 2.00.00	General Electric Data.	Addition		(1) All electrical equipment/item which will be used in the hazardous area should fulfil the following: (a) Shall be of a type and specification confirming to the relevant standards as specified in the Regulation 107(2) of Oil Mines Regulation-2017 and complying the provisions therein.

					In this regard, Bidder may refer to OMR-2017, Notification dated 18th October 2017, published in the Gazette of India (No. 898) on 2nd November 2017, under Ministry of Labour and Employment, Directorate General of Mines Safety. (b) All the flameproof equipment, items and enclosures shall be conforming to the requirements of the latest version of IS/IEC 60079-1: 2007, IS/IEC 60079-0:2011 and shall have type test certificate from CIMFR or any other NABL accredited Indian Government Laboratory or IECEx accredited laboratory or ATEX notified body, which is not a part of manufacture's facilities. Copies of test certificates must be provided to OIL along with materials/ during handing over of the project. (2) Copies of all the test certificates against all the different electrical equipment used in the hazardous areas shall be handed over to OIL, in a bound file along with a suitable index.

					(3) (a) As per CEA Regulation 29, The bidder shall have a valid Electrical Contractor's License issued by Electrical Licensing board, Govt. of Assam or shall form a consortium / tie-up / collaboration with an Electrical contractor, having required technical credentials as described in Para (b) below and holding valid Electrical Contractor's License issued by Electrical Licensing board, Govt. of Assam for executing the jobs. In support of the above the bidder shall submit a copy of either of the above Electrical Contractor's License. OR Bidder or their collaborators / consortium partner having valid Electrical Contractors' License issued by any State Government Electrical Licensing Board of India other than that of Assam must submit a copy of valid Electrical Contractors' License in support of above along with an undertaking stating that on award of contract to them they will submit either a valid Electrical Contractors' License

					issued by Electrical Licensing Board, Government of Assam in their name or get their Electrical Contractors' License recognized / endorsed by Electrical Licensing Board, Government of Assam for executing the job at Assam within 30 days from date of award of the contract and the same will be subsequently renewed till the completion of the contract. (b) In case of collaboration / consortium / tie-up with any Electrical firm as mentioned above, the bidder must furnish a copy of MoU entered into with the collaborator / consortium partner towards providing the requisite service as per the terms of the contract. (c) Contractor shall employ work persons with valid wireman permit (covering relevant portions), issued/recognised/endorsed by State Licensing Board, Govt. of Assam to carry out all electrical jobs and shall deploy adequate numbers of supervisor holding valid Electrical supervisor's

						competency certificate (covering relevant portions), issued/recognized/endorsed by State Licensing Board, Govt. of Assam for supervision of electrical jobs.	
31	Volume II B2-3: Page 15 of 16	Clause 8.0	Lighting Panel (LP)	Modification	Earth leakage circuit breaker : a) Type : Heavy duty, Quick make quick break type with sensitivity 30-200 mA (selectable) b) Rated voltage : 415 Volts c) No of poles : Four pole/Two pole d) Continuous Current rating at 45°cdeg cent: As required e) Breaking capacity KA : As required.	Suitably rated RCBO to be considered. Sensitivity shall be as per CEA Regulation 42	
32	HSE General Points			Addition	**Annexure II to the corrigendum is provided**. The Contractor shall adhere to the points while performing the works under this contract.		
33	Volume II B1-1: Page 1 of 6	Clause 1.02.03	Hydrant System	Modification	Spacing of hydrants shall be 30m in general as per OISD 189. Alternate hydrants shall be replaced with water-foam monitors around the tank farm, crude oil transfer pump area and unloading gantry. Pressure at the remote hydrant point shall be kept at a minimum of 7.0 kg/cm2 (g). Hydrants and monitors shall be as per IS:5290 and IS:8442 respectively	Spacing of hydrants / water cum foam monitor shall be 30m in general as per OISD-STD-189/117. Alternate hydrants shall be replaced with	

						water-foam monitors around the tank farm, crude oil transfer pump area and unloading gantry. Pressure at the remote hydrant point shall be kept at a minimum of 7.0 kg/cm2 (g). Hydrants and monitors shall be as per IS:5290 and IS:8442 respectively.
34	Volume II B1-1: Page 1 of 6	Clause 1.02.07	Hydrant System	Modification	Fire-water mains shall be equipped with double headed hydrants to which hoses can be connected. Each hydrant shall be provided with a hose box equipped with two numbers of standard fire hose and multipurpose foam cum water spray nozzle. Fire hoses and hose nozzles shall be as ISI marked/UL Listed.	Fire-water mains shall be equipped with double headed hydrants to which hoses can be connected. Each hydrant shall be provided with a hose box equipped with two numbers of

						standard fire hose (type-III) and multipurpose foam cum water spray nozzle. Fire hoses and hose nozzles shall be as ISI marked/UL Listed.
35	Volume II B1-1: Page 1 of 6	New Clause 1.02.09	Hydrant System	Addition	1.02.09 The location of the monitors shall not exceed 45 m from the hazard to be protected. **Fire Water Network** **<u>(i) Looping</u>** The fire water network shall be laid in closed to ensure multi-directional flow in the system. Isolation valves shall be provided in the network to enable isolation of any section of the network without affecting the flow in the rest. The isolation valves shall be located normally near the loop junctions. Additional valves shall be provided in the segments where the length of the segment exceeds 300 m. **<u>(ii) Above / Underground Network</u>** The fire water network steel piping should normally be laid above ground at a height of at least 300 mm above finished ground level. Pipes made of composite material shall be laid underground. However, the ring main shall be laid underground at the following places. • Road crossings.	

					• Places where above ground piping is likely to cause obstruction to operation and vehicle movement. • Places where above ground piping is likely to get damaged mechanically. (**iii) Protection of underground pipeline** If fire water ring mains are laid underground, the following shall be ensured:- • The ring main shall have at least 1 m earth cushion in open ground, 1.5 m cushion under the road crossings and in case of crane movement area pipeline shall be protected with concrete/steel encasement as per design requirement. • For rail crossing, provisions stipulated by Indian Railways shall be complied. • The under ground ring main shall be protected against soil corrosion by suitable coating/wrapping with or without cathodic protection. • Pipe supports under the pipe line shall be suitable for the soil conditions. **(iv) Support & Protection of above ground pipelines** The mains shall be supported at regular intervals not exceeding 6 m. For pipeline size less than 150 mm, support interval shall not exceed 3 m. The pipe support shall have only point contact. The system for above ground portion shall be analyzed for flexibility against thermal expansion and necessary expansion loops, guides/cross guides and supports provided.	
36	Volume II B1-1: Page 2 of 6	Clause 1.03.01	Portable Fire Extinguishers	Modification	The design, selection and location of fire extinguishers shall be provided as per OISD-STD-189.	The design, selection and location of fire extinguishers shall be provided as per OISD-STD-189 and OISD-STD-117.

37	Volume II B1-1: Page 2 of 6	Clause 1.03.02	Portable Fire Extinguishers	Modification	Portable extinguishers shall be complete with brackets/fittings suitable for mounting on wall and a carrying handle of ample strength	Portable extinguishers shall be complete with brackets/fittings suitable for mounting on wall and a carrying handle of ample strength. The extinguisher shall be installed in such a way that its top surface is not more than 1.5m above the floor/ground level.
38	Volume II B1-1: Page 2 of 6	Clause 1.03.03	Portable Fire Extinguishers	Modification	The maximum travel distance from any point of the facility to an extinguisher location shall not exceed 15 m	Portable fire extinguishers shall be located at convenient locations and are readily accessible and clearly visible at all times. The maximum travel distance from

						any point of the facility to an extinguisher location shall not exceed 15 m.
39	Volume II B1-1: Page 2 of 6	Clause 1.03.04	Portable Fire Extinguishers	Modification	Each extinguisher shall be designed, constructed, tested and painted in accordance with respective Indian/International Standard and marked with BIS Certification.	Each extinguisher shall be designed, constructed, tested and painted in accordance with respective Indian /International Standard and marked with BIS Certification. Rain protection of suitable design should be provided for all extinguishers & sand buckets.
40	Volume II	Clause 1.04.01	Hoses	Modification	Fire hoses to be used shall be as per IS 636 non-percolating Synthetic Hose (Type B)	Fire hoses to be used shall be as per IS 636 non-

	B1-1: Page 2 of 6					percolating Synthetic Hose (Type-III).
41	Volume II B1-1: Page 5 of 6	Clause C-1	TECHNICAL DATA SHEET	Modification	Code/Standard : IS-5290 Type-A	Code/Standard : IS-5290 Type-B (Double Headed)
42	Volume II B1-1: Page 5 of 6	Clause C-2	TECHNICAL DATA SHEET	Modification	Code/Standard : IS-636 type-II	Code/Standard : IS-636 Type-III
43	Volume II B1-1: Page 5 of 6	Clause C-4	TECHNICAL DATA SHEET	Modification	Code/Specification: IS-2871 for branch pipe and IS- 952 for Fog Nozzles.	Code/Specification : IS-2871 for branch pipe and Multipurpose Nozzle (CE/UL/FM approved) **Technical Specification:** "Hand held Nozzle pistol grip type device,

						Light Weight designed to throw water in form of Jet, Fog & Curtain to defuse Fire. Flow rate capacity : 90-250 GPM. Flow Pattern : Jet Spray and Fog Pattern. Calibrated Flow rate : Selectable through Index Ring & Maximum rate is indicated by raised lug. Stream Pattern: Can be changed by rotating the defuser head rings with tactile marking. Flush Feature: For flushing any small foreign items.

						Construction Material: Hard anodized aluminium. Head bumper guard, handles cover: Polyurethane Shut off ball: Heavy-duty chrome plated metal shut off ball Seat : Self-adjusting Teflon seat Screws & Axles : Aluminium / Stainless steel Coupling : Swivel type instantaneous coupling Teething: Turbine teeth for better fog Working Pressure: 7 bar Straight stream: Yes

						Narrow Spray at : 30 to 45 degree Full fog diffusion spray at :130 degree Stream pattern adjustment: By rotating head ring Weight of Nozzle: 2.5 to 3.0 Kg Listing of product with: CE/UL/FM Warranty Period: 2 Years

HEALTH, SAFETY & ENVIRONMENT (HSE) POINTS

The Contractor shall adhere to following points while performing the works under this contract.

A. General/ Common:

1. The Contractor shall be solely responsible to comply all the statutory norms as applicable while executing the job. It will be solely the Contractor's responsibility to fulfill all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely: the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors hired by him comply with the same requirement as the Contractor himself and shall be liable for ensuring compliance of all HSE laws by the sub-contractors. It will be the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory Rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by representative of OIL.

2. Contractor's arrangements for health and safety management shall be consistent with those for the company (OIL).

3. A Contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's Actor omissions at work.

4. The Contractor shall ensure complete safety of the personnel engaged by him, and of all the equipment, they will handle and must take full responsibility for their safety

5. Every person deployed by the Contractor must use appropriate PPEs (Personal Protective Equipment) to be provided by the Contractor. The Contractor shall provide Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement and company's PPE schedule. Safety appliances like protective footwear, Safety Helmet and Full Body harness, Fall Prevention Devises (FPD) shall conform to relevant IS codes. Necessary supportive document shall have to be available at site as proof. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may request to the Company (OIL) for providing the same. In case of exigency OIL will provide the safety items if available. However in turn, OIL will recover

the actual cost of the items by deducting from Contractor's Bill. However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him in the mines use the proper PPE while at work. Contractor employees should be trained in the proper use and maintenance of PPE. In absence of appropriate PPEs, the representative of OIL has the right to stop the work which will be binding for the Contractor. Moreover, the accountability towards any delay in work/ penalty due non-adherence to PPE shall be binding to the Contractor.

6. The Contractor should frame a mutually agreed bridging document between OIL & the Contractor for all issues not envisaged under the terms and conditions of the contract with the roles and responsibilities clearly defined.

7. The Contractor has to keep a register of the persons employed by him/her. The Contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.

8. Soft copy of the Standard Operating Procedures (SOPs) related to scope of work shall be handed over to the representative of OIL by Contractor including an assessment of risk, wherever possible and safe methods to deal with it/them. Printout of copy (spiral binding) of the SOP mentioned above is to be kept with all working teams at all times. The SOP clearly stating the risk arising to men, machineries & material from the mining operation / other operations to be done by the Contractor and how it is to be managed. However; in case of any doubts, the Contractor shall reconfirm the same from the Engineer In Charge (OIL).

9. Contractor has to ensure that all work is carried out in accordance with the Statute and the SOP for the job. For the purpose, he may deploy adequate qualified and competent personnel for carrying out the job in a safe manner. The work which is not covered under SOP, the Contractor shall develop it and submit to the representatives of OIL.

10. In case of deviation of SOP or non-availability of SOP, Job Safety Analysis (JSA) shall be carried out before commencement of the work.

11. Necessary cold and hot work permits including excavation clearance and permission for working at height, Confined Space Entry as applicable are to be obtained by the competent person of the Contractor from the site representative of OIL before start of the job(s). Work Permit System should be inline as per guidelines issued by HSE Department.

12. The Contractor’s personnel should be aware about the existing as well as probable hazards and ensure their training to tackle such untoward events by the Contractor. If the Company (OIL) arranges any safety awareness program /

training for the working personnel at site (company employee, Contractor worker, etc.) the Contractor will not have any objection to any such training.

13. After receipt of the work order the Contractor shall have to submit authorized list of Contract Personnel, who will be engaged for the jobs including name of the Contractor's competent persons and every contact details. No person shall be engaged in any job in a mine unless his competency has been assessed and approved by the OIL Engineer In Charge.

14. The Contractor shall not engage minor laborer below eighteen (18) years of age under any circumstances.

15. The Contractor should prevent the frequent change of his deployed employees as far as practicable. The Contractor shall not employ or terminate his worker without the knowledge of the OIL engineer in charge. However, if OIL Engineer In Charge found any person not appropriate with respect tothe job, the Contractor has to remove the person and replace a suitable person within the timeline as per the terms of the Contract.

16. OIL will communicate all information to the Contractor or his authorized representative only.

17. The Contractor shall have to report all incidents including near miss to the representative of OIL who shall be supervising the Contractor's work.

18. Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the Contractor only.

19. Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the Contractor and their medical treatment/ facilities in case of accidents should be provided by the same Contractor. The Contractor’s personnel should be aware about the existing as well as probable hazards and ensure their training to tackle such untoward events by the Contractor.

20. Contractor shall keep a reasonable degree of order by disposing of accumulated rubbish and excess material. Disposal of solid wastes generated by the Contractor shall be in accordance with the company’s Procedure for Solid Waste Management. The Contractor Personnel have to take every possible care to keep the environment clean and free from pollution.

21. The Contractor have to ensure the quality and reliability of all the tools, equipment and instruments they use. The supporting documents relevant to prove the above should be submitted. Defective tools shall be immediately removed.

22. Contractor's Supervisor/ Contractor's personnel needs to be aware about the site specific emergency response plan (which includes display of emergency contact nos., establish telephone communication, layout of working area, use of fire extinguisher, emergency exit, assembly point).

23. All Lifting equipment of the Contractor like Crane etc. shall have to be duly calibrated. Calibration Certificate of this equipment shall have to be submitted to the representatives of OIL and a copy of the same to be made available at site.

24. Necessary sign-board / warning signals like caution, "hot work" in progress, emergency telephone numbers, no entry without permission etc. should be used while working on tanks. The said signals / sign-boards shall have to be arranged by the Contractor and shall be in line with the circular of signboards issued by HSE Department, Oil India Limited.

25. Barricading of area to be done with reflecting tapes as applicable during work.

26. The First-Aid box should be provided by the Contractor and the same has to be kept ready to use at the site throughout the working hours.

27. The availability of First-Aid Fire Fighting equipment should be ensured by the Contractor at all working hours.

28. Smoking is prohibited in all Company restricted areas except in authorized smoking areas/ shelters. Carrying of matches and lighters into the Hazardous Area is prohibited. Cellular phones shall not be used in operating areas / hazardous areas unless they have been classified as 'intrinsically safe' for use in that atmosphere. Consumption of alcohol and possession of non- prescribed drug in Company work site is strictly prohibited.

29. The Contractor personnel should understand the implication of the known hazards related to the work undertaken by them and the necessity of having an emergency plan approved by OIL to counter them, if anything goes wrong.

30. In case Contractor is found non-compliant of HSE laws as required and all the above mentioned general HSE points, company will have the right for directing the Contractor to take action to comply with the requirements, and for further non-compliance, the Contractor will be penalized as per the terms of the Contract.

31. When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures Company will have the right to direct the Contractor to cease work until the non-compliance is corrected.

32. Considering the ongoing Covid-19 pandemic, those who are engaged in the above operations should follow the Covid-19 Protocol as per the prevailing Government Guidelines.

33. Any requirement arise by the Statutory Authorities during the period of contract shall be applicable and binding for the Contractor.

B. Additional Points in case of Areas/ Installations under Mines

1. As per DGMS circular & Gazette Notification for maintenance of register as required by the Mines Act1952 and Mines Rules, 1955, the forms A, B, D and E have been updated and modified. The above-mentioned forms need to be maintained as per the new format.

2. The Contractor shall submit to DGMS returns indicating — Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment work persons, Number of work persons deployed, how many work hold VT Certificate, how many work persons undergone IME and type of medical coverage given to the work persons.

3. The return shall be submitted quarterly (by 10th of April. July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.

4. The Contractor shall report all near misses, minor and reportable accident to the Engineer In Charge and maintain the record of near misses as per OIL's practice, and accidents in the Form – J for Reportable accident and Form – K for Minor Accidents as per The Mines Rules 1955 in consultation with the Engineer In Charge.

5. The Contractor engaged for any electrical installation, maintenance, repairs etc., should possess a valid electrical Contractor license issued by the State Electricity Licensing Board and engage adequate number of competent electrical personnel. All the Competent persons shall have appropriate Work Permit/ Supervisory License issued by State Electricity Licensing Board. It shall be included in Terms and Conditions of contract agreement/NIT (Notice Inviting Tender) and shall be ensured by the OIL Engineer in charge.

6. Statutory forms to be maintained in respect to Mines Act, 1952, Mines Rules 1955, Oil Mines Regulations 2017, the Environment (Protection) Act-1986 and other applicable laws.

7. The Contractor, wherever applicable, shall obtain necessary hazardous waste authorization from the State Pollution Control Board for storage, handling and disposal of hazardous waste.

8. The health check-up of Contractor's personnel is to be done by the Contractor in OIL empaneled Hospital and the reports and statutory forms as applicable to be vetted from the OIL authorized Medical Officer. The frequency of periodic medical examinations should be every five years for the employees up to 45 years of age and every three years for employees of 45 years of age and above. Initial Medical Examination should be in line with the standard followed by OIL.

9. All persons deployed by the Contractor for working in a mine must undergo Mines Vocational Training, initial medical examination and Periodic Medical Examination (if required). They should be issued cards stating the name of the Contractor and the work and its validity period, indicating status of MVT, IME & PME.

10. Necessary facilities for monitoring the levels of parameters in respect of Methane, Oxygen, Hydrogen Sulphide and Carbon Monoxide should be provided at mines. Portable multi-gas detector (LEL/O2/CO/H2S) and FLP tool, torch light etc. to be made available at site.

11. The Contactor personnel shall arrange daily meeting and monthly pit level meeting headed by the OIL Engineer and maintain records accordingly. Safety Briefing, Evacuation plan in case of emergency and how to inform (in case of emergency) to be discussed during the Tool Box meeting.

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