



الشركة العُمانية لنقل الكهرباء ش.م.ع.م
OMAN ELECTRICITY TRANSMISSION COMPANY S.A.O.C




إحدى شركات مجموعة نماء
Member of Nama Group

ANNUAL HEALTH & SAFETY PERFORMANCE REPORT 2020

Document Information

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Role	Name	Title	Signature
Prepared by	Anniesh Kumar	HSE MS Performance Officer	
Technical Review	Fahad Al Kiyumi	Sr. QHSE Manager (Acting)	
Approval	Masoud Al Reyami	CEO (Acting)	

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1. Executive Summary

This Health and Safety Performance Report has been produced to ensure that all staff, management, and stakeholders of Oman Electricity Transmission Company are well communicated about the H&S performance results of 2020 reporting year and based on the improvement requirements H&S KPIs can be followed for the year 2021 with the compliance of ISO 45001 Standards.

The year 2020 COVID-19 was the major challenge faced for the regular H&S inspections, H&S meeting, H&S awareness, H&S Mock drills, H&S Campaign, etc. but even with the full support of management and effort of the QHSE team we able to achieve our Health & Safety performance 2020.

Unfortunately, the reported year two LTI's (Lost Time Injury) occurred at our construction site. Overall working hours summative for OETC and Contractor employees recorded as 8.2 million hours and around 6.2 million safe man-hours since last LTI. 2020 shows the majority of the projects in commissioning stages as one of the main challenges in H&S performed year particularly construction & Operational Safety. H&S reporting culture being improved largely which has been evident through the number of reported near misses.

2. Major Challenges Faced in 2020

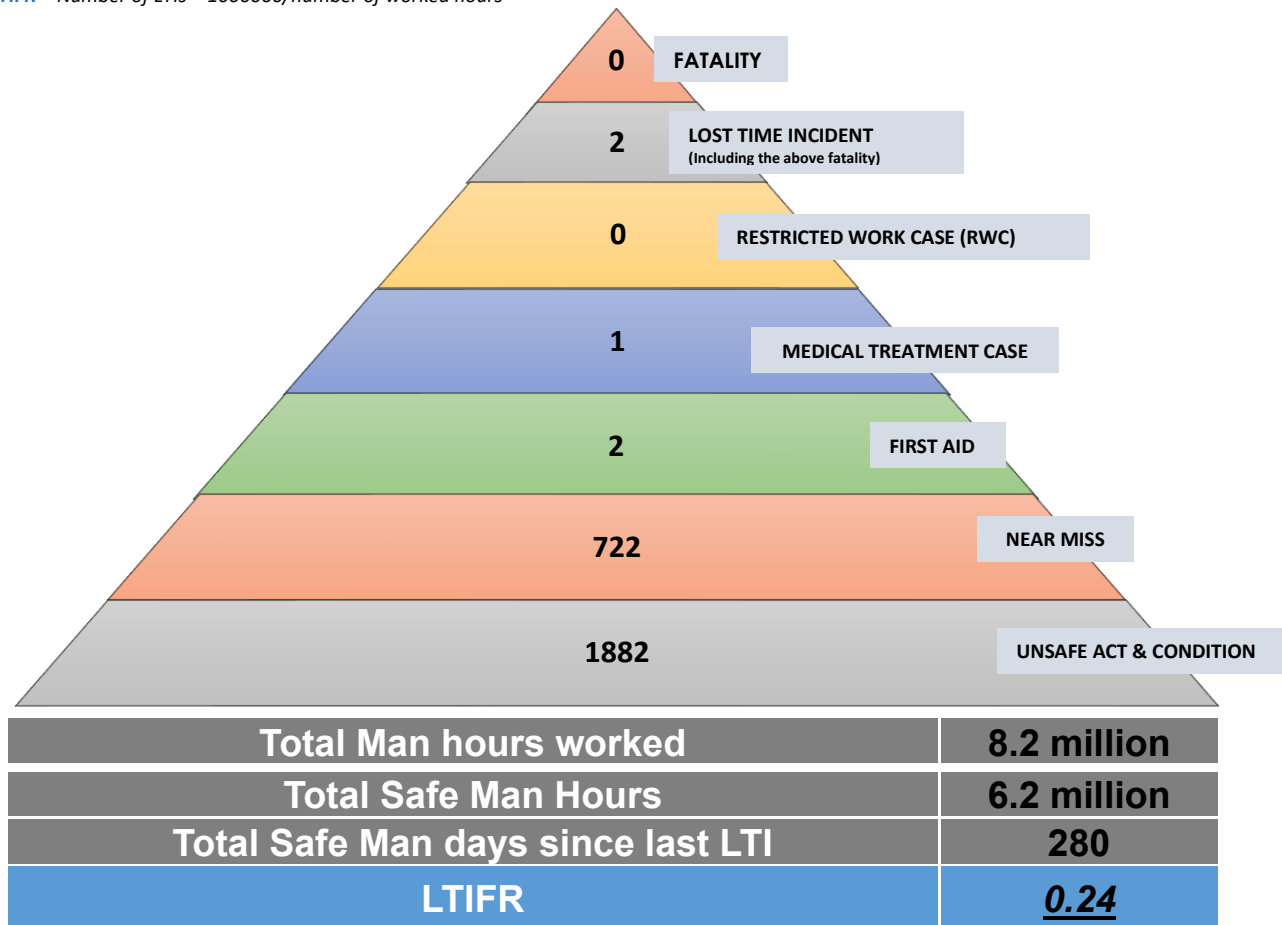
1. Overhead line construction Projects – hilly terrain access road, selection of vehicle & equipment.
2. Implementing and maintain a high level of COVID-19 precautions.
3. Controlling the widespread network.
4. Maintain compliance with ISO 14001 and ISO 45001.

3. Achievements

1. All Supreme committee COVID-19- precautions well implemented and monitored.
2. Achieved 6.2 million safe man-hours with 0.24 LTIFR.
3. Revision of OTEC System Safety Rules. basic Awareness provided for – 57 staffs.
4. Safety First Rules document released, and Awareness provided for –75 staffs.
5. ESOP- Electrical Safety Operational Procedure Developed.
6. MD-286:2008 awareness provided for 171 staff.

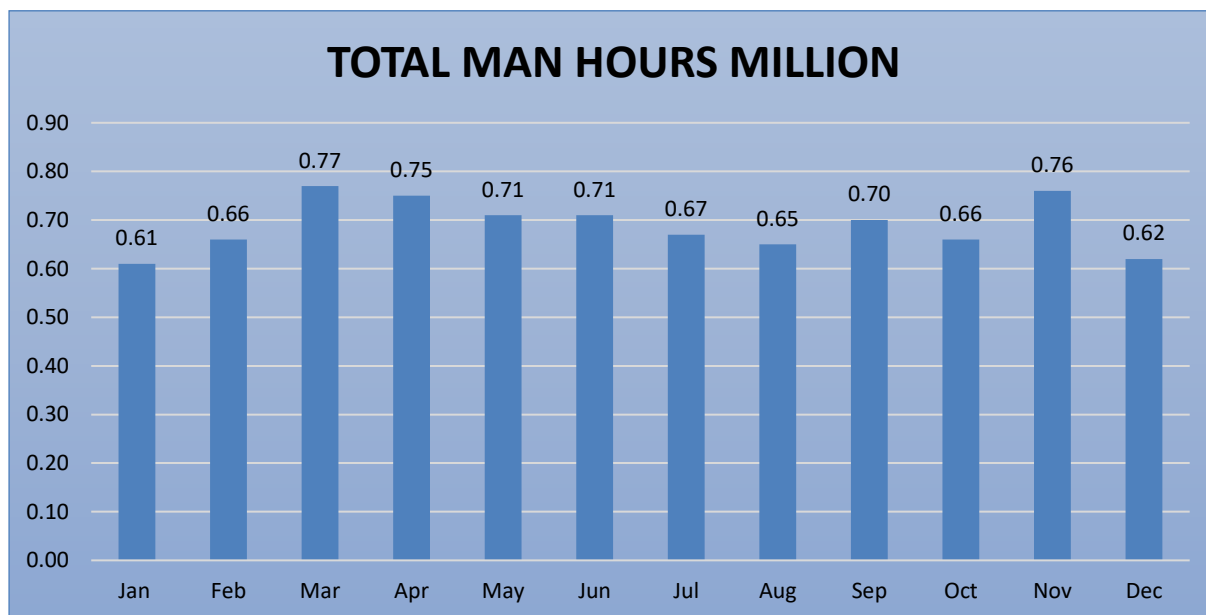
4. Performance – 2020

*LTIFR = Number of LTIs * 1000000/number of worked hours*



	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Accumulative
Total Man hours	643,113	667,756	773,794	751,878	639,785	720,051	671,403	626,009	700,562	668,682	761,560	622,773	8,208,377
Total Safe Man Hours from LTI	9,567,244	10,289,594	117,989	869,867	1,509,652	2,229,703	2,901,106	3,527,115	4,227,677	4,896,359	5,657,919	6,276,722	6,276,722
Total Safe Man days from LTI	379	408	5	35	66	96	127	158	188	219	249	280	280
Fatality	0	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	0	2	0	0	0	0	0	0	0	0	0	2
RWC	0	0	0	0	0	0	0	0	0	0	0	0	0
MTC	0	0	0	0	1	0	0	0	0	0	0	0	1
First Aid	1	0	0	0	0	0	1	0	0	0	0	0	2
Near Miss	53	67	70	44	51	55	61	59	69	58	38	72	722
Unsafe A/C	111	152	122	168	166	213	160	153	173	123	105	177	1882
LTIFR	0	0	0.96	0.71	0.58	0.48	0.41	0.37	0.32	0.29	0.26	0.24	0.24

4.1. Man-hours Worked Month Wise



5. Five Years Performance Overview

	2016	2017	2018	2019	2020
Fatalities	1	0	2	0	0
LTI (Including Fatality)	1	1	2	1	2
RTA	0	6	1	2	1
Million man-hours Worked	13	18.2	15.9	9.6	8.2
LTIFR	0.15	0.05	0.13	0.10	0.24
Million Safe man-hours Worked since last LTI	9	7.5	6.3	8.9	6.2
Days since last LTI	249	154	170	348	280
Major Environmental Incidents	0	0	0	0	0
Near Miss	1012	753	1295	1051	722
Unsafe Act & Unsafe Condition	1011	1320	1003	1636	1882

*Above records are cumulative for OETC employees and contractors

LTI – Lost Time Injury

RTA – Road Traffic Accident

LTIFR – Lost Time Injury Frequency Rate

LTIFR = No. of LTIs x 1000000 / Total Man-hours worked

6. Key Performance Indicators

6.1. OETC Driven Proactive KPIs

1. 90% annual compliance of Training Plan - % Achieved = 100%

Training Course	Overall		Overall Achieved %
	Plan	Achieved	
Internal HSE Training			
SSR (3 - 4 days) - Full program	32	22	69%
SSR (1 day) - Refresher	148	0	0%
HSE Induction (when needed)	58	58	100%
Environment Awareness	200	179	90%
Oman Electrical Standards (OES)	30	29	97%
MD 286 awareness	120	171	100%
Risk assessment Awareness	100	129	100%
External HSE Training			
Defensive driving Hilly Terrain (two Day)	15	0	0%
Learning Management System (LMS) HSE Training			
Defensive driving (One Day)	25	20	80%
Construction Safety	15	12	80%
First Aid	48	34	71%
Fire warden	40	27	68%
Total	668	681	100%

Note:

- SSR Training Postponed to 2021 due to revision of SSR & COVID-19 Restriction
- DD Hilly Terrain Postponed to 2021 due to revision of SSR & COVID-19 Restriction

Completed Internal Training & Awareness 2020													
Course Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
HSE Induction	1	7	6	-	-	1	-	-	11	5	19	8	58
System Safety Rules New Version Awareness													57
Safety First Rules Awareness													75
Covid-19 Safety Precaution Awareness													48

2. 100% annual compliance of HSE Management Review meeting - % Achieved = 100%

Q-1 Meeting	Q-2 Meeting	Q-3 Meeting	Q-4 Meeting
07/04/2020	26/07/2020	03/11/2020	Done in Jan 2021

3. 90% annual compliance of Emergency Mock Drills -% Achieved = 50%

#	Type of Emergency	Location	Date
1.	Fire Emergency Drill	Nizwa GS	09-02-2020
2.	Electrical Shock Drill	Wadi Saa GS	14-12-2020
3.	Chemical Spill Drill	Ibri Solar Project	25-08-2020
4.	Chemical Spill Drill	Al Khoud Project	29-10-2020

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5.	Oil Spillage Drill	Bediyah GS	15-12-2020
6.	Fall From Height	Mobellah Industry	24-11-2020
7.	Emergency Evacuation Drill	Head Office	23-11-2020
8.	Emergency Evacuation Drill	OETC Store	16/12/2019

Note: *Due to COVID-19 pandemic situation and Oman Supreme Committee Safety precaution we unable to conduct planned mock drills.*

4. 90% annual compliance of HSE Inspections and - % Achieved = 90.2%

#	Audit Type	Q-1 2020		Q-2 2020		Q-3 2020		Q-4 2020	
		Plan	Achieved	Plan	Achieved	Plan	Achieved	Plan	Achieved
1.	Internal HSE MS Audit	1	0	1	1	0	0	1	1
2.	Surveillance audit for ISO and OHSAS	0	0	0	0	1	1	0	0
3.	Operational Safety Audit	10	10	10	5	5	5	8	8
4.	Grid Station Inspection	40	35	40	37	40	35	40	32
5.	Construction site Audit	9	9	9	9	6	6	6	6
6.	Construction site inspection	19	19	19	19	12	12	12	13
7.	Store Inspection	2	1	2	0	2	2	1	1
8.	Total	81	74	81	71	66	61	68	61

5. 90% annual compliance of Management Site HSE Walk downs - %Achieved = 94%




#	Walkdown Type	Q-1		Q-2		Q-3		Q-4	
		Plan	Achieved	Plan	Achieved	Plan	Achieved	Plan	Achieved
1.	CEO Site Walk Down 12 Visits Required			4	5	4	2	4	6
2.	COO Site Walk Down MIS – 12 & Dhofar -2 Grid Station			4		8	MIS – 9 Dhofar-3	2	3
3.	Sr. Shared Serves Manager Six monthly	Head office		1				1	1
		Stores		1				1	1
		LDC		1				1	1
		Recreation		1				1	1
4.	Total	0	0	12	5	12	14	11	13

6. 90% Closure of all Internal/External Audit and Incident investigation recommendations with in the stipulated time frame

Pending Action – Internal Inspection & Audit Recommendation

HSE Audit Pending Action - Observation & Recommendation				
#	Department	Source	Observation	Recommendation
1.	Transmission	Internal Inspection	26	6
2.	Security	Internal Inspection	11	Nil

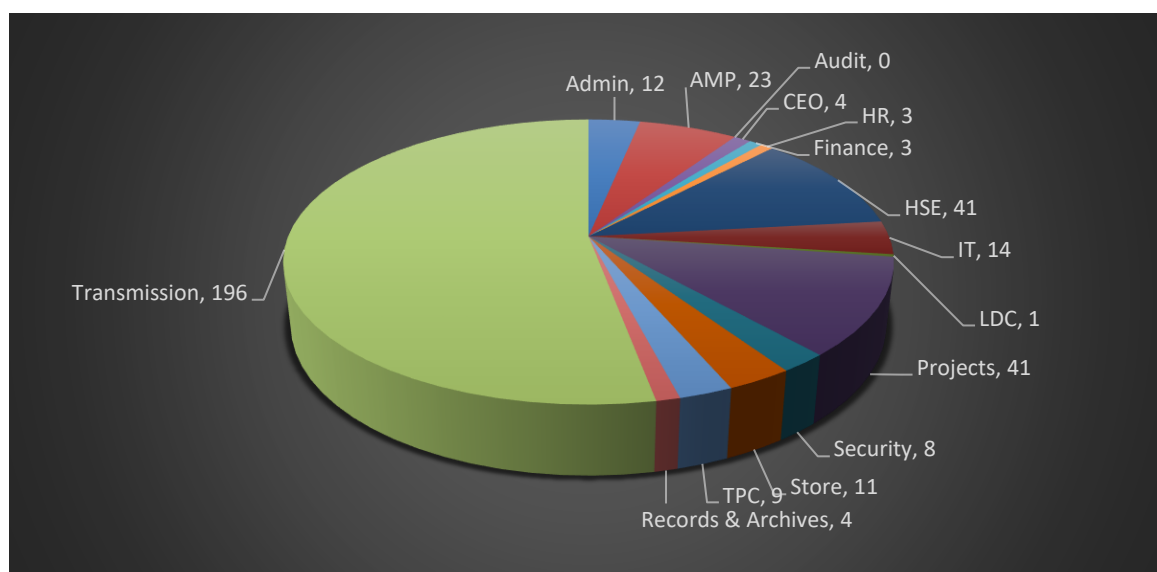
Pending Action - 2019 AER Health & Safety Audit Recommendation

Current Status		
	Total Recommendations	27
	Completed	20
	Open	07

2019 APSR Health & Safety Audit Recommendation			
#	Department	Non-conformance	Recommendation
1.	Projects	Nil	01
2.	Security	Nil	02
3.	HSE	Nil	04

7. 90% SPOT Card reporting by each department as per the HSE Time Frame Action Schedule- **Total 368 reported in 2020 - Achieved = 100%**

Department	Total Staff	Report in NIMS	Target	Achieved
Admin	12	12	60%	100%
AMP	25	23	60%	92%
Audit	4	0	60%	0%
CEO	9	4	60%	44%
Finance	14	3	60%	21%
HR	11	3	60%	27%
HSE	12	41	90%	100%
IT	7	14	60%	100%
LDC	44	1	60%	2%
Projects	24	41	90%	100%
Security	4	8	60%	100%
Store	5	11	60%	100%
TPC	10	9	60%	95%
Records & Archives	4	4	60%	100%
Transmission	138	196	90%	100%



6.2. OETC driven Reactive KPIs

#	Reactive KPI	Target	Achieved
1.	fatality	0	0
2.	LTIF	0.20	0.24
3.	RTAF	0.10	0.08
4.	TRCF	0.50	0.37
5.	Non-Conformance from AER/EHC	0	14
6.	Penalty form Ministry of Man Power	0	0
7.	Penalty form Ministry of Environment	0	0
8.	Moderate Environmental Impact	0	0

7. Major Incident Details

7.1. 7th March 2020 - LTI Incident

Project / Location	Contractor	Injury classification	Injury Detail	Summary	Correction / Corrective action
Construction of 132/33kV Mirbat GS with 2x63MVA TX and Associated 132kV OHL from Ashoor GS to Mirbat GS	ONEIC	LTI	Segmental Fracture right leg	On 7 th march around 16.45 hrs During OHL tower foundation work, while doing housekeeping near the excavated pit (2.7 meters) victim got tripped over a MS pipe/bracing which was lying onto the ground, as support and anchoring the ladder. In order to balance his body and as a result of his reflex action he jumped into the pit. This resulted fracture on his right leg.	1) Detailed investigation carried and action taken accordingly. 2) Learnings shared with all OETC staff, contractors and other sector companies

7.2. 26th March 2020 - LTI Incident

Project / Location	Contractor	Injury classification	Injury Detail	Summary	Correction / Corrective action summary
Construction of 400kV OHL between Misfah to Izki	NCC	LTI	Fracture right leg (below knee and above Ankle).	On 26 th march around 16.40 hrs Victim was engaged for lowering the OHL spacer trolley, while pulling the guide rope he moved backward to balance his foot and unfortunately during this movement he placed his foot on a small loose stone and slipped. This resulted fracture on his right leg.	1) Detailed investigation carried, and action taken accordingly. 2) Learnings shared with all OETC staff, contractors and other sector companies.

Note: All corrective actions been closed

8. Major Events

8.1. COVID-19 Safety precautions

#	Date	Description
1.	25/02/2020	First HSE Alert send to all Including OETC, Contractor & Consultant
2.	Every week	Every week management meeting first agenda for COVID-19 precaution measure
3.	March 2020	Specific awareness provided to all OETC contractors for COVID-19 precautions
4.	16/03/2020	HSE posture circulated (Avoid Hand Shaking)
5.	March 2020	Stopped all external Visitors to the office and stop receiving hard Documents
6.	March 2020	The external staff has been allowed by only checking temperature & self-declaration form.
7.	March 2020	Stop all face-to-face meeting and provide a facility to conduct only Online meeting
8.	March 2020	A complete office building has been sanitized
9.	16/03/2020	Deactivate all biometric punching system & door access control
10.	19/03/2020	Second HSE Alert send to all Including OETC, Contractor & Consultant
11.	23/03/2020	Third HSE Alert send to all Including OETC, Contractor & Consultant
12.	23/03/2020	Precaution Plan for break the chain of COVID-19 from all Contractor & Consultant
13.	24/03/2020	All OETC staff Preventive measures (COVID -19) and insurance support services
14.	01/04/2020	Implemented COVID-19 precaution Measure Checklist at all OETC Project sites
15.	April 2020	A complete office building has been sanitized
16.	April 2020	Reduced manpower & Shift works at Project sites
17.	April 2020	OETC Contractor project camps have instructed to isolate OETC staff from the common camp facility
18.	April 2020	OETC Cleaning Contractor staff has isolated and provided separate camps facility in OETC premises.
19.	01/04/2020	Provide IT facility to all staff to work from home
20.	May 2020	sanitizer tunnel machine provided at Head office
21.	10/05/2020	Only 30% of staff allowed to work from the office and the remaining staff work from home only
22.	28/05/2020	The fourth HSE Alert send to all Including OETC, Contractor & Consultant
23.	June 2020	Only 50% of staff allowed to work from the office and the remaining staff work from home only
24.	04/06/2020	Fifth HSE Alert send to all Including OETC, Contractor & Consultant
25.	04/06/2020	Sixth HSE Alert send to all Including OETC, Contractor & Consultant
26.	June 2020	Thermal Temperature Screening device fixed in HO entrance



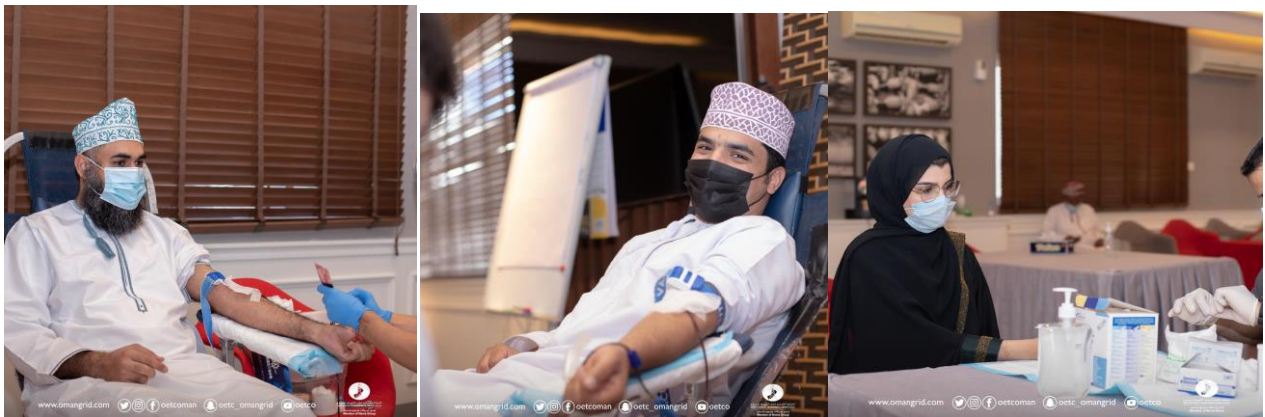
8.2. Successfully completed ISO 14001 & ISO 45001 Standard Surveillance Audit



8.3. Management Walk down



8.4. Blood Donation



8.5. New System Safety Rules Basic Awareness



8.6. Civil Defence Requirement Awareness



8.7. Consultant Mass Meeting



8.8. Rewards



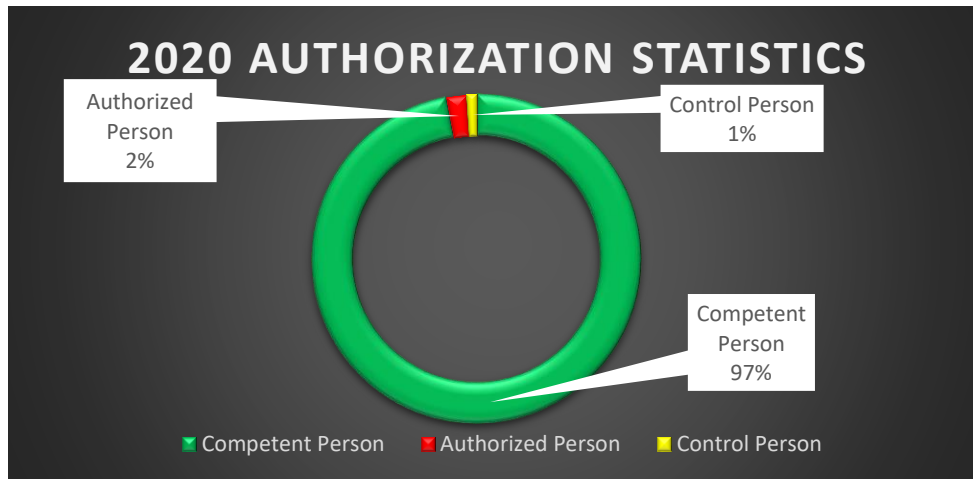
9. Alerts & Awareness

Published HSE Alerts		
#	Alert No	Monthly Topic
1.	HSE Alert- 01 – 2020	Earthmoving equipment legal violation
2.	HSE Alert- 02 – 2020	Adversary Weather Condition
3.	HSE Alert- 03 – 2020	Falling Object Incident
4.	HSE Alert- 04 – 2020	Advice for Handling SF6 Gas
5.	HSE Alert- 05 – 2019	Health Alert - Corona Virus
6.	HSE Alert- 06 – 2020	LTI (Immediate Alert)-Fall into Excavated Pit
7.	HSE Alert- 07 – 2020	COVID-19 protecting and Safeguarding
8.	HSE Alert- 08 – 2020	COVID-19 Prevention in Transportation Services
9.	HSE Alert -09 – 2020	LTI (Immediate Alert)-Slipped on Ground
10.	HSE Alert -10 – 2020	Mirbat & Misfah- Izki LTI Final Recommendation
11.	HSE Alert-11 – 2020	Medical Treatment Case Incident
12.	HSE Alert-12 – 2020	COVID Control of Spread
13.	HSE Alert-13 – 2020	Summer Midday Break Heat Stress
14.	HSE Alert-14– 2020	Corona Virus Site Safety
15.	HSE Alert-15– 2020	How to use the mask English
16.	HSE Alert-16– 2020	Expected Adversary Weather Condition
17.	HSE Alert-17– 2020	Road Traffic Accident –Incident
18.	HSE Alert-18– 2020	Falling object-WAH (Unsafe act)

#	Month	Awareness Topic
1.	January	Risk Assessment
2.	February	Environmental Impact Assessment
3.	March	Corona Virus precaution Awareness
4.	April	Working inside Battery Room
5.	May	Summer safety Ramadan Covid-19
6.	June	Chemical handling transformer oil
7.	July	Working at Height inside the grid station
8.	August	Incident Reporting and Investigation
9.	September	Manual Handling and Mechanical Lifting
10.	October	Environmental Awareness
11.	November	Handling of Mercury & SF6
12.	December	New SSR Basic Awareness

10. Authorization Statistics as per OETC System Safety Rules

	Total Assessment	Pass	Fail
Competent Person	297	223	74
Authorized Person	6	6	0
Control Person	3	3	0
Total	306	232	74

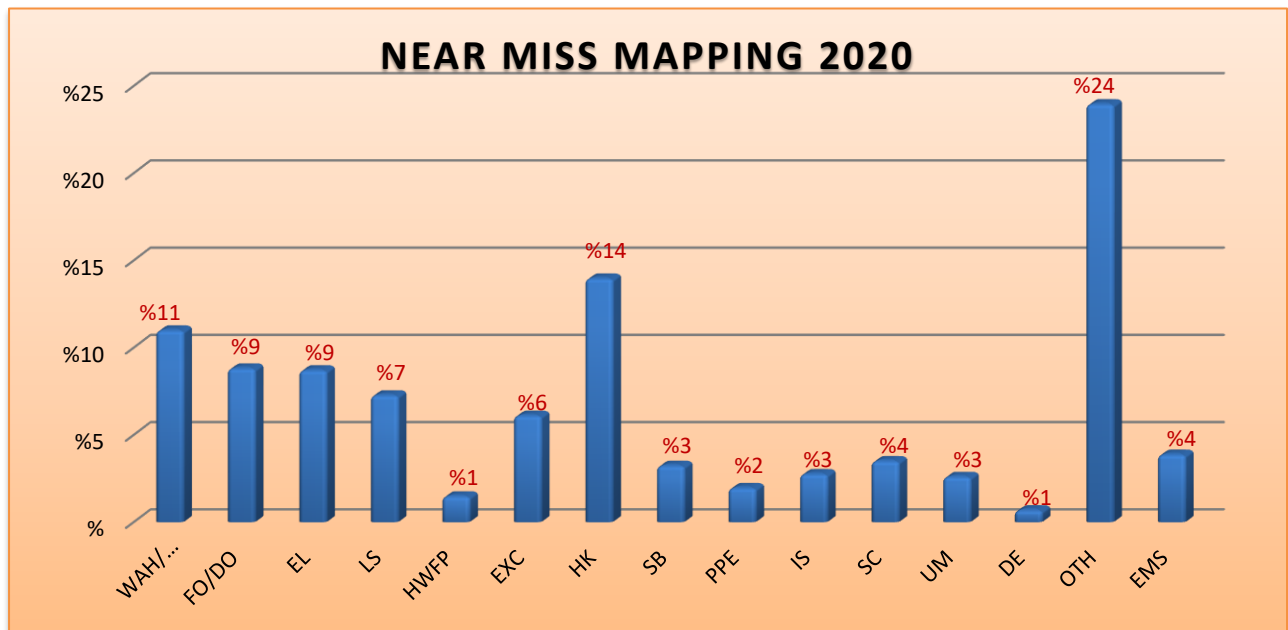


11. Hazard Mapping for Near Miss / Unsafe Act and Unsafe Condition

In 2020 total 722 numbers of near miss and 1882 numbers of unsafe acts/conditions being reported. Based on their severity major one considered and necessary actions are taken to correct as well as learning dissipated to other sites in order to avoid recurrence. These reports are very vital in our approach towards continual improvement and utmost to avoid a serious incident.

Below table and graph give the overall hazard mapping:

#	Description	Code	Overall Contribution
1.	Working at Height	WAH	11%
2.	Falling / Drop Objects	FO/DO	9%
3.	Electrical	EL	9%
4.	Lifting / Shifting	LS	7%
5.	Hot work/fire prevention /protection	HWFP	1%
6.	Excavations	EXC	6%
7.	Housekeeping	HK	14%
8.	Signboards and barricading	SB	3%
9.	Using Damage/ Not Using PPE	PPE	2%
10.	No/Insufficient Supervision	IS	3%
11.	short cut or bypass	SC	4%
12.	Unsecured Material	UM	3%
13.	Defective equipment	DE	1%
14.	Others	OTH	24%
15.	Environmental Management System	CH	4%

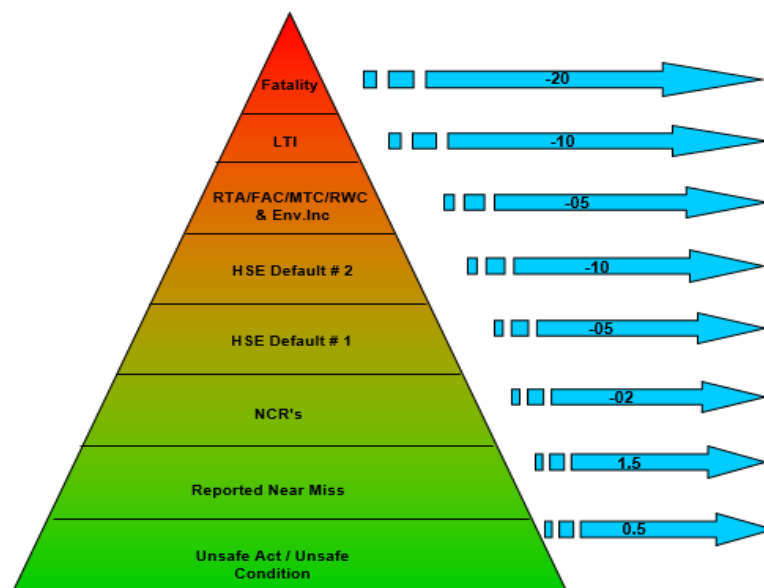


12. Contractors Quarterly Performance

We have collected the data for every quarter to evaluate the project HSE performance based on the criteria set in the contractor performance.

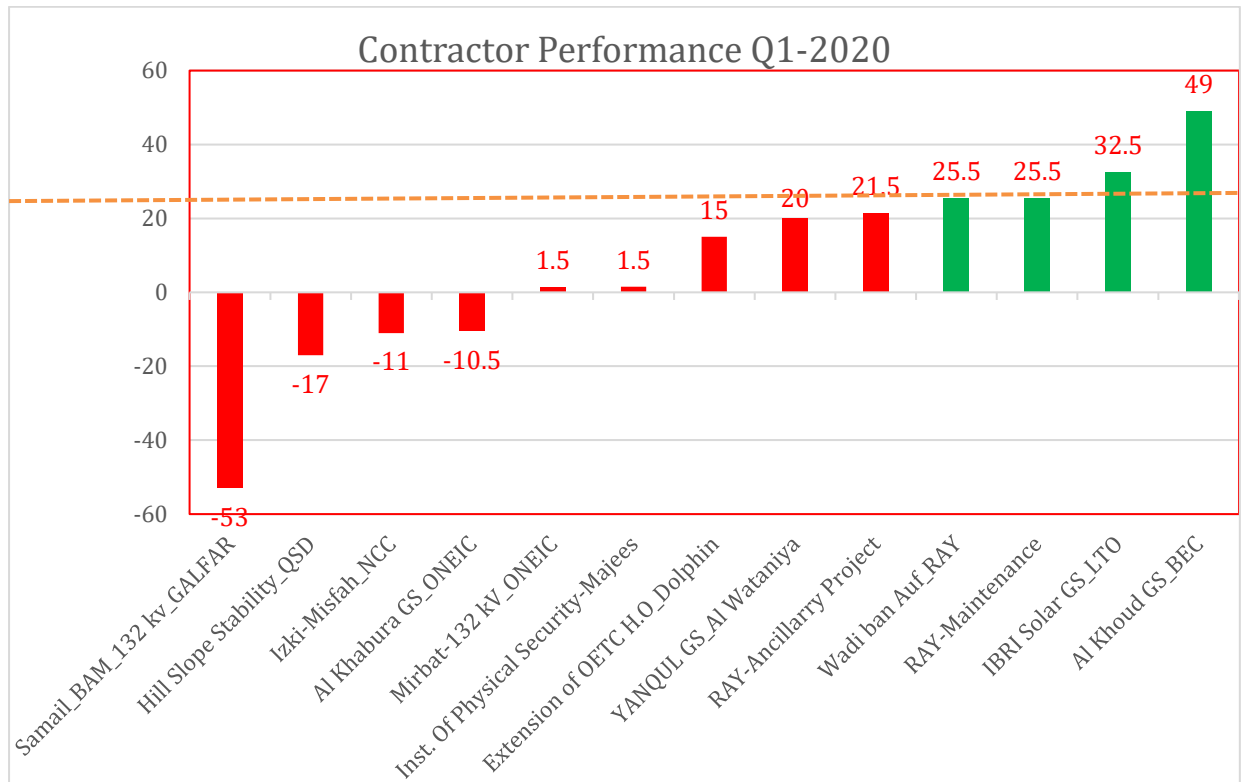
The basic HSE evaluation criteria for the working projects are identified as under eight categories, i.e. Fatality, LTI, (RTA, FAC, MTC, RWC, Env. incident), HSE Default #2, HSE Default #1, NCR's Near Miss, Unsafe Act and Unsafe Condition reporting.

Health & Safety TRIANGLE – LIFE OF PROJECT

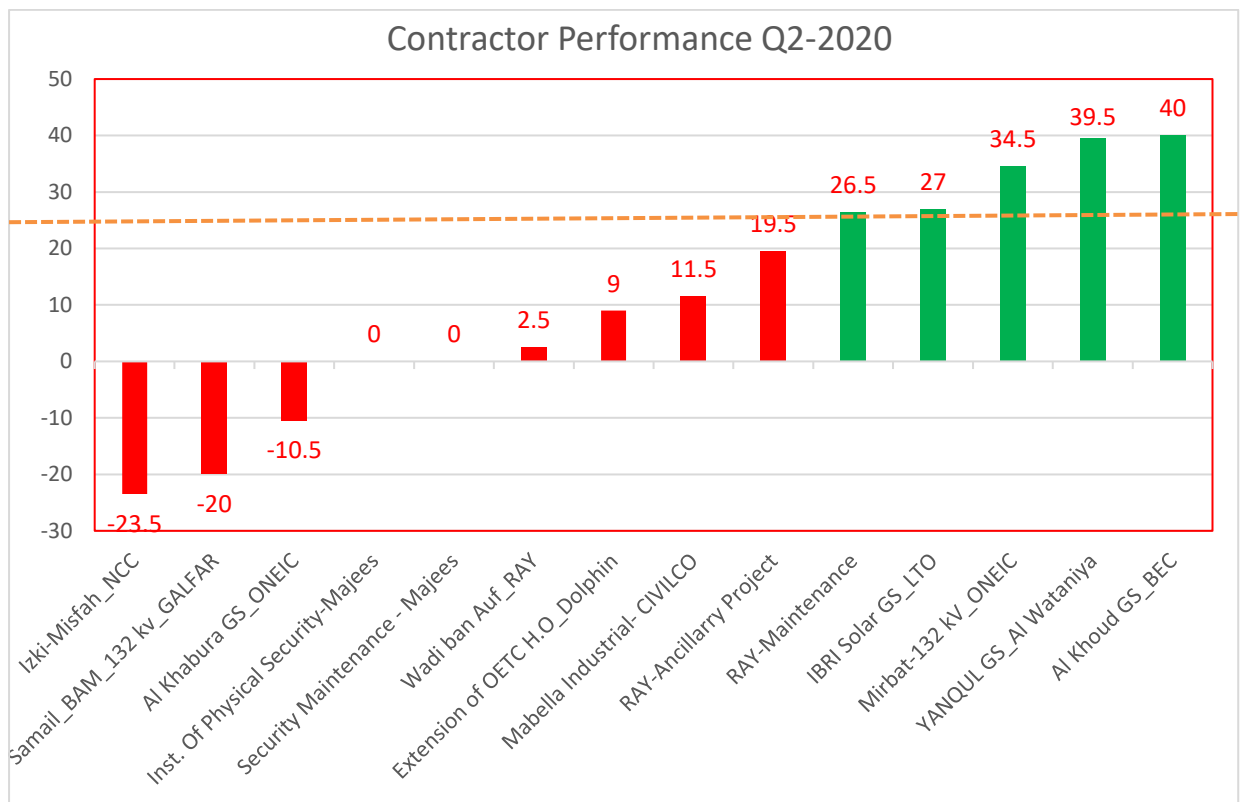


Based on the target set for each category baselines set as 24 scorings for each quarter. Anything below 24 marks is considered as low performer and accordingly, the low performer and best performer shall be identified with this evaluation.

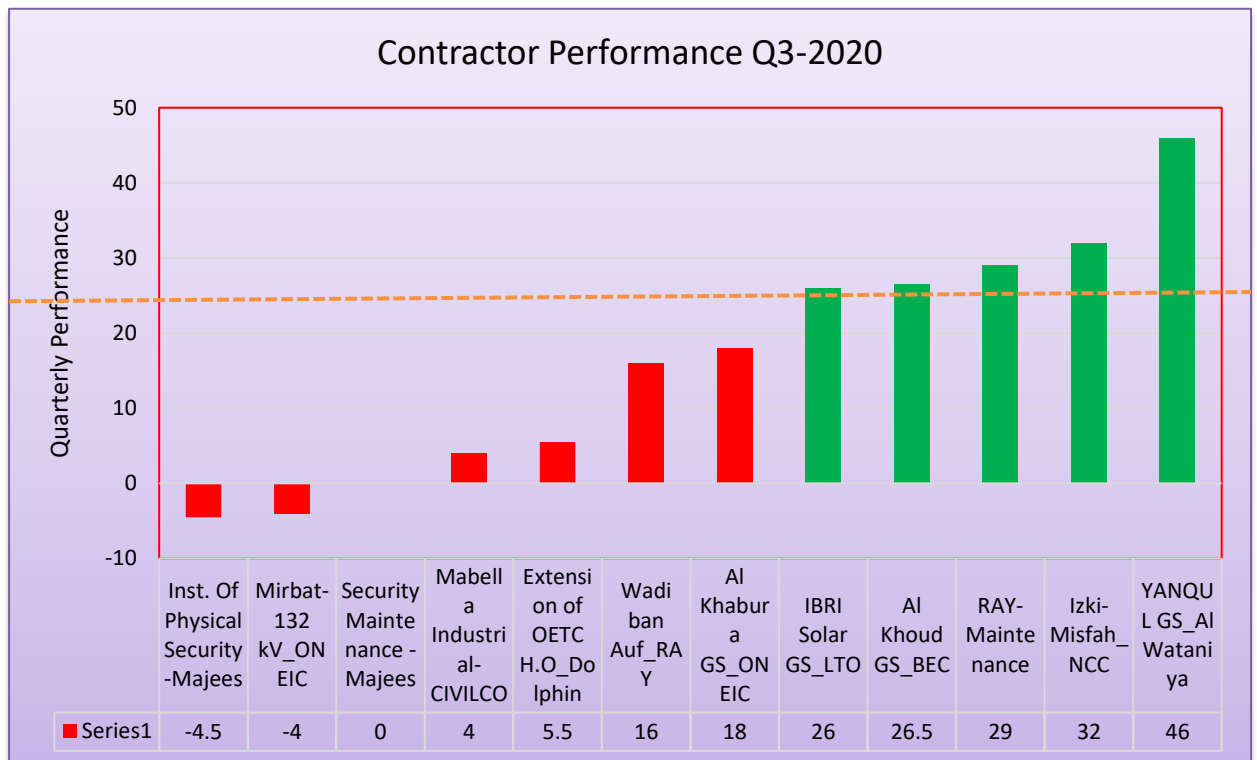
• **First Quarter 2020**



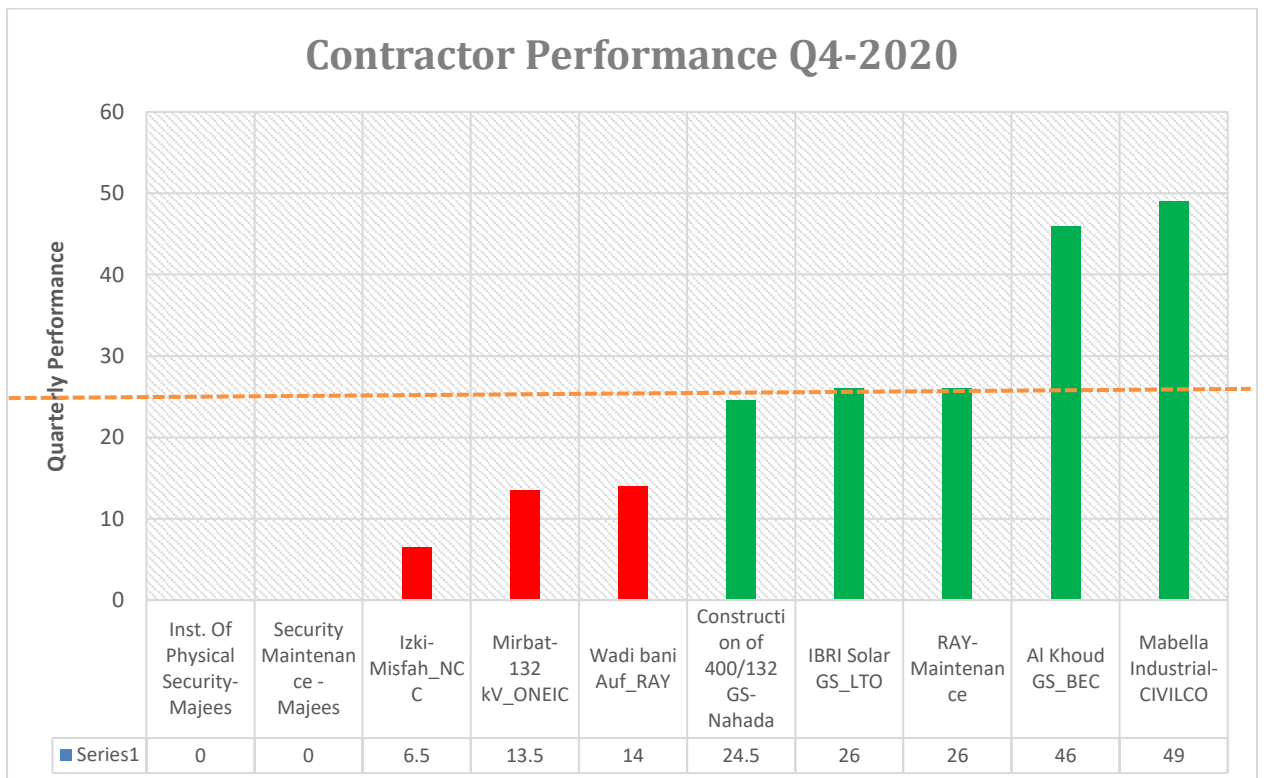
• **Second Quarter 2019**



• **Third Quarter 2020**



• **Fourth Quarter 2019**



13. Rewards / Appreciation

Throughout the year various HSE rewards are given to OETC staff, contractors and consultants. The purpose of these rewards to:

1. Improve HSE awareness across OETC staff, contractors and consultants
2. Encourage safe working practices and behaviors in work teams
3. Recognise and publicise good HSE performance to support improved workforce motivation
4. Support beneficial change in the company safety culture

Near Miss Reporting Rewards

Best Near Miss Reporter Q1

OETC Staff

#	Staff Name	Designation	Region / Department
1	Mr. Mr. Khalid Salim AL Fadhil	IT Support Officer	IT Dhofar
2	Mr. Hassan Ali Al Nadabi	Technical Coordinator	LDC
3	Mr. Ali Mahad Al Maashani	O&M Engineer	Transmission Dhofar
4	Mr. Abdullah Hamood Al Amri	O&M Engineer	Transmission Muscat

EPC Project- Contractors

#	Project Name	Contractor	Month
1	Construction of Ibri Solar Grid Station (Tender. No - 36/2018)	LTO	Jan
2	Construction of 132kV AL KHOUDH Grid Station (Tender.No-12/2018)	BEC	Feb
3	Construction of 132 KV Wadi bani Auf Grid Station and Associated OHL (Tender. No- 158/2015)	RAY-	September

Best Near Miss Q2

OETC Staff

#	Staff Name	Designation	Region / Department
1	Mr. Jasim Mohammed Al Sarhani	Maintenance Technician	Transmission S&D
2	Mr. Sajith Mepramkuttiyil	Finance Manager	Finance
3	Mr. Amer Mohammed Al Hashmi	Maintenance Technician	Transmission S&D
4	Mr. Faisal Salim Al Ghaithi	Sr. O&M Engineer	Transmission BDB
5	Mr. Haitham Ali Mubarak Al Habsi	Protection & Metering Engineer	Transmission Dhofar

EPC Project- Contractors

#	Project Name	Contractor	Month
1	Construction of 132/33KV GS Yanqul & Regional Office Building In Ibri	Al Wataniya	April
2	Construction of 132/33kV Mirbat GS and Associated OHL (85/2018)	ONEIC	May
3	Construction of Ibri Solar Grid Station (Tender. No - 36/2018)	LTO	June

Best Near Miss Q3

OETC Staff

#	Staff Name	Designation	Region / Department
1.	Mr. Badar Salim Said Al-Ghassani	Maintenance Technician	Transmission S&D
2.	Mr. Ammar Mohammed Al-Moqbali	Protection & Metering Engineer	Transmission BDB
3.	Mr. Ali Sulaiman Nasser Al-Zakwani	Maintenance Technician	Transmission S&D
4.	Mr. Said Rashid Juma Al-Dhabari	Sr. Project Engineer	Projects HO
5.	Mr. Khamis Amur Al-Ruzaiqi	Sr. O&M Engineer	Transmission Muscat

EPC Project- Contractors

#	Project Name	Contractor	Month
1	Construction of 132/33kV Mirbat GS and Associated OHL (85/2018)	ONEIC	July
2	Construction of 400kV OHL from Izki to Misfah - 55/2017	SNCC	August
3	Construction of 132/33KV GS Yanqul & Regional Office Building In Ibri	Al Wataniya	September

Best Near Miss Q4

OETC Staff

#	Staff Name	Designation	Region / Department
1.	Mr. Hatim Khamis Al Bulushi	Records & Archives Section Head	Records & Archives
2.	Mr. Haitham Abdullah Al Rawahi	Senior Asset Information Engineer	AMP
3.	Mr. Saleh Salim Al Hinaai	Maintenance Technician	Transmission S&D
4.	Mr. Ahmed Juma Al Mekhaini	Maintenance Technician	Transmission S&D

EPC Project- Contractors

#	Project Name	Contractor	Month
1.	Construction of 132kV GS at Mabellah Industrial. Tender. No- 25/2019	Tradelinks	Oct
2.	Operation & maintenance of OETC Grid Stations. Tender. No-76/2017	BEC	Nov
3.	Construction of Al Khaborah Station and Regional Office in Muladah. Tender. No-02/2018	ONEIC	Dec

14. Conclusion

QHSE team would like to thank all company staff, Senior management, contractors and consultants for their enormous support and sustained guidance to improve the H&S performance. We shall continue and strive hard to ensure the achievement of 'Zero Accident' goal.