CONTENTS

1.0 INTRODUCTION 4

1.1 PROJECT DESCRIPTION 4

1.2 PURPOSE OF DOCUMENT 4

1.3 DEFINITIONS 4

1.4 TERMINOLOGY/ABBREVIATIONS 5

2.0 CODES, STANDARDS AND REFERENCES 5

2.1 REFERENCE DOCUMENT 5

2.2 REGULATIONS 6

2.3 AREA CLASSIFICATION 7

3.0 GENERAL 7

3.1 PROJECT INFORMATION 7

3.2 SERVICE CONDITION 7

4.0 SYSTEM DESCRIPTION 9

4.1 COMMUNICATION ROUTES 9

4.2 DETAIL DESCRIPTION 9

5.0 DESIGN REQUIREMENTS 10

5.1 EQUIPMENT REQUIREMENT 10

5.2 POWER SUPPLY 12

5.3 EQUIPMENT ALARM AND INDICATIONS 13

5.4 ANTENNAS AND FEEDERS 14

5.5 INTERFACE 14

5.6 EARTHING 15

5.7 RADIO FREQUENCY INTERFERENCE 15

6.0 TEST EQUIPMENT AND TOOLS 16

7.0 INSPECTION, TESTING, INSTALLATION AND COMMISSIONING 16

7.1 INSPECTION....16

7.2 TESTING....16

7.3 INSTALLATION, SUPERVISION AND COMMISSIONING....17

7.4 CERTIFYING....17

8.0 TECHNICAL DOCUMENTATION....17

9.0 SHIPPING....18

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

The project comprises two new wellhead platforms BZ34-1 WHPE and BZ34-1WHPF; mainstay areas adjustment item BZ34-1.The water depth is 19.8m

WHPE: 4-leg wellhead platform with 40-men Living Quarters

WHPF:4-leg wellhead platform with 40-men Living Quarters

There are following facilities for BZ34-1 oil field development:

- A new wellhead platform (BZ34-1 WHPE);
- A new wellhead platform (BZ34-1 WHPF);
- A new 3.9km 6″x12″ subsea composite pipeline from BZ34-2/4 CEPA to BZ34-1 WHPD.
- A new 3.9km 6″ subsea composite pipeline from BZ34-2/4 CEPA to BZ34-1 WHPD.
- A new 5.4km 6″ subsea composite pipeline from BZ28-2S WHPB to BZ34-1 WHPE.
- A new 2.4km 12″x18″ subsea composite pipeline from BZ34-1 WHPF to BZ34-2/4 CEPA.
- A new 2.4km 6″ subsea composite pipeline from BZ34-2/4 CEPA to BZ34-1 WHPF.
- A new 4km subsea composite power cable from BZ34-1 WHPD to BZ34-1 WHPE.
- A new 2.4km subsea composite power cable from BZ34-2/4 CEPA to BZ34-1 WHPF.

1.2 PURPOSE OF DOCUMENT

This specification covers the minimum technical requirements for design, installation, fabrication, testing and commissioning of an integrated communications system to meet the communication needs (VOICE, FAX, LAN, CCTV and emergency/safety communications, etc.) to be installed on the new platforms BZ34-1 WHPE.

Any conflict between this specification and the requirements of current standards, codes of practice or other related engineering specification shall be referred to Client for clarification in writing.

1.3 DEFINITIONS

Project	BZ34-1 Oil field Development adjusting
Client	CNOOC China Limited
Vendor	Communication system Vendors

1.4 TERMINOLOGY/ABBREVIATIONS

The following terminology or abbreviations are commonly used in this document:

AM	Amplitude Modulation
CCTV	Closed Circuit Television
DSC	Digital Selective Call
EPIRB	Emergency Position Indicating Radio Beacon
F&G	Fire & Gas System
FM	Frequency Modulation
HF	High Frequency
LAN	Local Area Network
NDB	Non-Directional Beacon
PABX	Private Automatic Branch Exchange
PA/GA	Public Address/General Alarm
RF	Radio Frequency
SART	Search and Rescue Radar Transponder
SATCOM	Satellite Communication
UHF	Ultra High Frequency
VHF	Very High Frequency
GPS	Global Position System
WAAS	Wide Area Augmentation System
DGPS	Difference Global Positioning System

2.0 CODES, STANDARDS AND REFERENCES

2.1 REFERENCE DOCUMENT

2.1.1 BZ34-1 WHPE

BD-SPC-WHPE-CO-0002	SPECIFICATION FOR COMMUNICATION EQUIPMENT
BD-EQL-WHPE-CO-0001	COMMUNICATION EQUIPMENT LIST
BD-DWG-WHPE-CO-0001	OVERALL COMMUNICATION SYSTEM DIAGRAM
BD-DWG-WHPE-CO-0002	PA/GA SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE-CO-0003	PABX SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE-CO-0004	LAN SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE-CO-0005	CCTV SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE-CO-1001(01)	COMMUNTCATION EQUIPMENT LAYOUT UPPER DECK
BD-DWG-WHPE-CO-1001(02)	COMMUNTCATION EQUIPMENT LAYOUT MIDDLE DECK
BD-DWG-WHPE-CO-1001(03)	COMMUNTCATION EQUIPMENT LAYOUT LOWER

	DECK
BD-EQL-WHPE(LQ)-CO-0001	COMMUNICATION EQUIPMENT LIST
BD-DWG-WHPE(LQ)-CO-0001	VHF-FM SYSTEM DIAGRAM
BD-DWG-WHPE(LQ)-CO-0002	VHF-AM SYSTEM DIAGRAM
BD-DWG-WHPE(LQ)-CO-0003	UHF SYSTEM DIAGRAM
BD-DWG-WHPE(LQ)-CO-0004	EMERGENCY LIFE SAVING SYSTEM DIAGRAM
BD-DWG-WHPE(LQ)-CO-0005	WEATHER SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-0006	NDB SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-0007	PA/GA SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-0008	PABX SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-0009	LAN SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-0010	ENTERTAINMENT SYSTEM ONE LINE DIAGRAM
BD-DWG-WHPE(LQ)-CO-1001	RADIO ROOM LAYOUT
BD-DWG-WHPE(LQ)-CO-1002(01)	COMMUNICATION EUQIPMENT LAYOUT-1st FLOOR
BD-DWG-WHPE(LQ)-CO-1002(02)	COMMUNICATION EUQIPMENT LAYOUT-2nd FLOOR
BD-DWG-WHPE(LQ)-CO-1002(03)	COMMUNICATION EUQIPMENT LAYOUT-ROOF FLOOR
BD-DWG-WHPE(LQ)-CO-1002(04)	COMMUNICATION EUQIPMENT LAYOUT-HELIDECK
BD-DWG-WHPE(LQ)-CO-1003(01)	ANTENNA LAYOUT-ROOF FLOOR
BD-DWG-WHPE(LQ)-CO-1003(02)	ANTENNA LAYOUT-HELIDECK

2.2 REGULATIONS

The communications system shall be designed in accordance with all engineering codes, rules, recommendations and regulatory standards to the specified requirements and performance. Local statutory regulations and the purchase specifications should be consulted in conjunction with these specifications and where deemed necessary should override any methods described in this document, which is for guidance only.

All equipment, system design and installation shall comply with the latest editions and revisions of the following codes, standards and related professional specification as a minimum:

- ITU-R (International Telecommunication Union - Radio Sector)
- ITU-T (International Telecommunication Union - Telecommunication Sector)
- SOLAS (Safety of Life At Sea, IMCO)
- GMDSS (The Global Maritime Distress and Safety System)
- IEC (International Electro-technical Commission)
- NEC (National Electrical Code, U.S.A)

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：https://d.book118.com/995124142102011143