	PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
	CLIENT	INDIAN OIL CORPORATION LIMITED		
QCP-GROUTING	Project No. 080557C001	Document No. 080557C-000-QCP-1760-001	Rev. No. A	Page 1 of 3

<h2 style="text-align: center;">QUALITY CONTROL PLAN</h2> <h3 style="text-align: center;">CIVIL WORKS – GROUTING</h3>

TYPE OF QUALITY CONTROL REPORT	CERTIFICATION EXTENT
W 12/A	SINGLE REPORT PER EACH MATERIAL
CW 58	SINGLE REPORT PER EACH AUTHORIZED GROUP OF ITEMS
CW 59	SINGLE REPORT PER EACH RELEASED GROUP OF ITEMS

REFERENCE DOCUMENTS:

- 080557C-000-PP-805 SITE CO-ORDINATION & COMMUNICATION PROCEDURE
- 080557C-000-JSS-1700-004 SPECIFICATIONS FOR GROUTING
- Drawings



LEGENDA

H	=	HOLD (RFI required - Work stop for inspection)
W	=	WITNESS (RFI required)
WC	=	100 % SUPERVISION AND EXAMINATION BY CONTRACTOR.
P	=	PREPARATION.
S	=	SURVEILLANCE (No RFI)
R	=	REVIEW OF REPORTS
N.A.	=	NOT APPLICABLE
A	=	AUTHORIZATION / APPROVAL
IFA	=	ISSUED FOR AUTHORIZATION/APPROVAL
INFO	=	FOR INFORMATION
!	=	WARNING (control of document revision status)

A	21.10.2019	ISSUED FOR INFORMATION	SMP	PKP	LA/ANJ	JMC
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

This document is developed by TECHNIP India Limited and the information it contains is property of Indian Oil Corporation Ltd. It shall not be used for any purpose other than that for which it is supplied.

CONFIDENTIAL – Not to disclose without Authorization

 		PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
		CLIENT	INDIAN OIL CORPORATION LIMITED		
QCP-GROUTING	Project No. 080557C001	Document No. 080557C-000-QCP-1760-001		Rev. No. A	Page 2 of 3

QUALITY CONTROL PLAN
CIVIL WORKS
GROUTING

QUALITY CONTROL ACTIVITIES

Nr.	CHECK AND INSPECTION ITEM	QUALITY CONTROL REPORT	ACTION		NOTES
			CONTR.	TECHNIP	
A)	PRELIMINARY ACTIVITIES				
A.1	CONTRACTOR DRAWINGS CHECK REVISION STATUS	N.A.	!	!	
A.2	CONTRACTOR TECHNICAL SPECIFICATION AND PROCEDURE	N.A.	!	!	
A.3	MANUFACTURER INSTRUCTION	N.A.	WC	INFO	(1)
A.4	CONTRACTOR METHOD STATEMENT (IF REQUIRED)	N.A.	P	R	(1)
B)	BEFORE GROUTING				
B.1	MATERIALS APPROVAL	W 12/A	WC	INFO	(1)
C)	CONSTRUCTION				
C.1	GROUTING AUTHORIZATION	CW 58	WC	S	(2) (3)
C.2	SURFACE CLEANING AND SOAKING	CW 59	WC	S	
C.3	FORM WORK INSTALLATION	CW 59	WC	S	
C.4	GROUT PREPARATION AND EXPIRING DATE CHECK	CW 59	WC	W/R	
C.5	GROUTING	CW 59	WC	W/R	(4)
C.6	FORMWORK REMOVAL AND SURFACE VISUAL APPARENCE	CW 59	WC	W/R	
C.7	SURFACE REPAIRING (IF ANY)	CW 59	WC	W/R	
C.8	FINAL DOCUMENTATION REVIEW	CW 59	P	R	

- NOTES:
- (1) A COPY OF THE DOCUMENT WILL BE DELIVERED TO OWNER FOR INFORMATION
 - (2) AUTHORIZATION RELEASED BY MECHANICAL CONTRACTOR
 - (3) THESE GROUTING AUTHORIZATION REPORTS WILL BE ALWAYS AVAILABLE DURING THE CONSTRUCTION BUT NOT INCLUDED IN THE CONSTRUCTION QUALITY DOSSIER
 - (4) HOLD POINT FOR ALL GROUTING RELATED TO MACHINERY BASEPLATES

 		PROJECT	Standby SRU & Additional Tanks		
		CLIENT	INDIAN OIL CORPORATION LIMITED		
QCP-GROUTING	Project No. 080557C001	Document No. 080557C-000-QCP-1760-001		Rev. No. A	Page 3 of 3

GENERAL NOTES

- 1 THE ENCLOSED ITP'S ARE INDICATIVE AND SHALL BE FOLLOWED FOR DEVELOPING THEJOB SPECIFIC ITP'S FOR THE WORKS TO BE PERFORMED BY THE CONTRACTOR. THE PROVISIONS INDICATED FOR STAGE WISE INSPECTION BY TECHNIP AND OWNER (FOR SPECIFIC ACTIVITIES) ARE THE MINIMUM AND THE ENGINEER-IN- CHARGE MAY DECIDE TO INCREASE HOLD POINTS/ WITNESS POINTS, WHILE APPROVING THE JOB SPECIFIC ITP'S. ACTIVITIES FOR WHICH ITP'S ARE NOT PROVIDED IN THIS SPECIFICATION. CONTRACTOR TO DEVELOP AND GET THE SAME APPROVED BY TECHNIP/OWNER BEFORE START OF THE WORK. IN GENERAL ROLE OF TECHNIP HAS BEEN SPECIFIED IN THE DOCUMENT THE ROLE OF OWNER TO BE SPECIFIED DURING PREPARATION OF SITE SPECIFIC ITP'S.
- 2 CONTRACTOR TO SUBMIT JOB SPECIFIC REPORTING FORMATS AND JOB PROCEDURES FOR THE JOBS FOR EACH ACTIVITY LISTED IN THE ITP'S AND SUBMIT TO TECHNIP/OWNER FOR APPROVAL. BEFORE COMMENCEMENT OF THE ACTIVITY. IF THE CONTRACTOR HAS TO DEVIATE FROM THE GIVEN ITP FOR A VALID REASON, HE SHALL OBTAIN PRIOR WRITTEN APPROVAL OF TECHNIP/OWNER. CONTRACTOR TO CARRY OUT 100% EXAMINATION OF ALL ACTIVITIES.



COMPANY:



SH. 1 OF 1

CW 58 N° _____

REMARKS:

DATE _____

		PROJECT: _____ COMPANY: _____																																																																		
QUALITY CONTROL FORM CW 59		PROJ. No.: _____	QCF REV. A	SH. 1 OF 1																																																																
GROUTING INSPECTION REPORT		CONTRACTOR: _____		CW 59 N° _____																																																																
ITEMS READY FOR GROUTING																																																																				
_____ _____ _____ _____ _____ _____ _____	AREA AREA AREA AREA AREA AREA AREA	_____ _____ _____ _____ _____ _____ _____	AREA AREA AREA AREA AREA AREA AREA																																																																	
GROUT TYPE: TYPE: PORTLAND CEMENT GROUT <input type="checkbox"/> Brand _____ THK mm TYPE: NON SHRINKING GROUT <input type="checkbox"/> Brand _____ THK mm TYPE: EPOXY GROUT <input type="checkbox"/> Brand _____ THK mm TYPE: _____ <input type="checkbox"/> Brand _____ THK mm																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">INSPECTIONS (REF. TO QCP 1760.01)</th> <th style="text-align: center;">N.A.</th> <th style="text-align: center;">ACC</th> <th style="text-align: center;">REMARKS/ REFERENCES</th> <th colspan="3" style="text-align: center;">INSPECTORS SIGNATURE & DATE</th> </tr> <tr> <th colspan="2"></th> <th></th> <th></th> <th></th> <th style="text-align: center;">CONTRACTOR.</th> <th style="text-align: center;">TECHNIP</th> <th style="text-align: center;">OWNER</th> </tr> <tr> <td style="text-align: center;">C.2</td> <td style="text-align: center;">SURFACE CLEANING& SOAKING</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C.3</td> <td style="text-align: center;">FORM WORK INSTALLATION</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C.4</td> <td style="text-align: center;">GROUT PREPARATION AND EXPIRING DATE CHECK</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C.5</td> <td style="text-align: center;">GROUTING</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C.6</td> <td style="text-align: center;">FORMWORK REMOVAL AND SURFACE VISUAL APPARENCE</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C.7</td> <td style="text-align: center;">SURFACE REPAIRING</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					INSPECTIONS (REF. TO QCP 1760.01)		N.A.	ACC	REMARKS/ REFERENCES	INSPECTORS SIGNATURE & DATE								CONTRACTOR.	TECHNIP	OWNER	C.2	SURFACE CLEANING& SOAKING	<input type="checkbox"/>	<input type="checkbox"/>					C.3	FORM WORK INSTALLATION	<input type="checkbox"/>	<input type="checkbox"/>					C.4	GROUT PREPARATION AND EXPIRING DATE CHECK	<input type="checkbox"/>	<input type="checkbox"/>					C.5	GROUTING	<input type="checkbox"/>	<input type="checkbox"/>					C.6	FORMWORK REMOVAL AND SURFACE VISUAL APPARENCE	<input type="checkbox"/>	<input type="checkbox"/>					C.7	SURFACE REPAIRING	<input type="checkbox"/>	<input type="checkbox"/>				
INSPECTIONS (REF. TO QCP 1760.01)		N.A.	ACC	REMARKS/ REFERENCES	INSPECTORS SIGNATURE & DATE																																																															
					CONTRACTOR.	TECHNIP	OWNER																																																													
C.2	SURFACE CLEANING& SOAKING	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
C.3	FORM WORK INSTALLATION	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
C.4	GROUT PREPARATION AND EXPIRING DATE CHECK	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
C.5	GROUTING	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
C.6	FORMWORK REMOVAL AND SURFACE VISUAL APPARENCE	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
C.7	SURFACE REPAIRING	<input type="checkbox"/>	<input type="checkbox"/>																																																																	
NOTES:																																																																				
N.A. = NOT APPLICABLE ACC. = ACCEPTED																																																																				
C.8) FINAL DOC. REVIEW	INSPECTORS	CONTRACTOR		PMC	OWNER																																																															
	NAME																																																																			
	SIGNATURE																																																																			
	DATE																																																																			

 		PROJECT:	
		COMPANY:	
QUALITY CONTROL FORM W 12/A		PROJ. No.:	QCF REV. A
CONSTRUCTION MATERIALS APPROVAL		CONTRACTOR:	W 12/A N° _____
CIVIL <input type="checkbox"/>	PIPING <input type="checkbox"/>	MACHINERY <input type="checkbox"/>	INSULATION <input type="checkbox"/>
BLDG. <input type="checkbox"/>	MECHANIC. <input type="checkbox"/>	ELECTRICAL <input type="checkbox"/>	STEEL STR. <input type="checkbox"/>
NDT <input type="checkbox"/>	SUPPORT PRF. <input type="checkbox"/>	_____ <input type="checkbox"/>	_____ <input type="checkbox"/>
1. MATERIALS			
2. SUPPLIER			
3. PURPOSE			
4. ATTACHMENT DATA			
5. TYPE OF TEST PERFORMED			
6. TEST STANDARD UTILIZED			
REMARKS:			
RESULT:		ACCEPTED <input type="checkbox"/>	NOT ACCEPTED <input type="checkbox"/>
INSPECTORS	CONTRACTOR	PMC	OWNER
NAME			
SIGNATURE			
DATE			