	<b>PROJECT</b>		<b>Standby SRU &amp; Additional Tanks IOCL Paradip Refinery</b>	
	<b>CLIENT</b>		<b>INDIAN OIL CORPORATION LIMITED</b>	
<b>QCP-CONCRETE PROTECTIVE COATING</b>	<b>Project No.</b> 080557C001	<b>Document No.</b> 080557C-000-QCP-1761-001	<b>Rev. No.</b> A	Page 1 of 3

## QUALITY CONTROL PLAN

### CONCRETE PROTECTIVE COATING

TYPE OF QUALITY CONTROL REPORT	CERTIFICATION EXTENT
W 12/A	SINGLE REPORT PER EACH MATERIAL
PC 1	SINGLE REPORT PER EACH WAREHOUSE INSPECTION
PC 2	SINGLE REPORT PER EACH ITEM

#### REFERENCE DOCUMENTS:

- 080557C -000-PP-805                      SITE CO-ORDINATION & COMMUNICATION PROCEDURE.
- 080557C -000-JSD-2300-001              SPECIFICATION FOR PAINTING & COATING
- Drawings



#### LEGENDA

H	=	HOLD (RFI required - Work stop for inspection)
W	=	WITNESS (RFI required)
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
<b>REV.</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>	<b>AUTHORIZED</b>

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

 	<b>PROJECT</b>		<b>Standby SRU &amp; Additional Tanks IOCL Paradip Refinery</b>	
	<b>CLIENT</b>		<b>INDIAN OIL CORPORATION LIMITED</b>	
<b>QCP-CONCRETE PROTECTIVE COATING</b>	<b>Project No.</b> 080557C001	<b>Document No.</b> 080557C-000-QCP-1761-001	<b>Rev. No.</b> A	Page 2 of 3

## QUALITY CONTROL PLAN



### CONCRETE PROTECTIVE COATING

#### QUALITY CONTROL ACTIVITIES

Nr.	CHECK AND INSPECTION ITEM	QUALITY CONTROL REPORT	ACTION		NOTES
			CONTR.	TECHNIP	
<b>A)</b>	<b>PRELIMINARY ACTIVITIES</b>				
A.1	CONTRACTOR DRAWINGS CHECK REVISION STATUS	N.A.	!	!	
A.2	CONTRACTOR TECHNICAL SPECIFICATION AND PROCEDURE	N.A.	IFA	A	
A.3	CONTRACTOR METHOD STATEMENT (if required)	N.A.	P	A	(1)
<b>B)</b>	<b>BEFORE APPLICATION</b>				
B.1	MATERIALS APPROVAL / MANUFACTURER TECHNICAL SHEET & INSTRUCTION	W 12A	WC	R	
B.2	MATERIALS CHECK IN CONTRACTOR WAREHOUSE:				
B.2.1	MATERIAL IDENTIFICATION AND CONSERV. STATUS & EXPIRING DATE CHECK	PC 1	WC	R	(3)
B.2.2	COATING EQUIPMENT, CONTROL & TEST INSTRUMENTS	PC 1	WC	R	
B.3	COATING APPLICATORS IDENTIFICATION & CARD ASSIGNMENT		WC	R	
<b>C)</b>	<b>PAINTING APPLICATION</b>				(2)
C.1	SURFACE PREPARATION	PC 2	WC	W/R	
	- SURFACE PREPARATION EXECUTION				
	- VISUAL CHECK				
C.2	PRIMER	PC 2	WC	W/R	
	- ENVIROMENTAL CONDITIONS				
	- PRIMER EXECUTION				
C.2.1	VISUAL INSPECTION & THICKNESS CHECK	PC 2	WC	W/R	
C.2.2	ADHESION TEST	PC 2	WC	W/R	
C.3	INTERMEDIATE COATING	PC 2	WC	R	
	- CLEANLINESS				
	- ENVIROMENTAL CONDITIONS				
	- INTERMEDIATE EXECUTION				
C.3.1	VISUAL INSPECTION & THICKNESS CHECK	PC 2	WC	W/R	
C.3.2	ADHESION TEST	PC 2	WC	W/R	
C.4	FINAL COATING	PC 2	WC	W/R	
	- CLEANLINESS				
	- ENVIROMENTAL CONDITONS				
	- FINAL COATING EXECUTION				

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 anyurpose other than that for which it is supplied.

CONFIDENTIAL – Not to disclose without Authorization

 	<b>PROJECT</b>		<b>Standby SRU &amp; Additional Tanks IOCL Paradip Refinery</b>	
	<b>CLIENT</b>		<b>INDIAN OIL CORPORATION LIMITED</b>	
<b>QCP-CONCRETE PROTECTIVE COATING</b>	<b>Project No.</b> 080557C001	<b>Document No.</b> 080557C-000-QCP-1761-001	<b>Rev. No.</b> A	Page 3 of 3

## QUALITY CONTROL PLAN

### CONCRETE PROTECTIVE COATING

#### QUALITY CONTROL ACTIVITIES

Nr.	CHECK AND INSPECTION ITEM	QUALITY CONTROL REPORT	ACTION		NOTES
			CONTR.	TECHNIP	
C.4.1	VISUAL INSPECTION & THICKNESS CHECK	PC 2	WC	W/R	
C.4.2	HARDNESS & ADHESION TEST	PC 2	WC	W/R	
C.5	CHECK OF COATING REPAIR & TOUCH-UP	PC 2	WC	W/R	
C.6	FINAL DOCUMENTATION REVIEW	PC 2	P	R	

- NOTES:
- (1) A COPY OF THE DOCUMENT WILL BE DELIVERED TO OWNER FOR INFORMATION.
  - (2) CONTRACTORS SHALL RECORD ON A PROPER LOGBOOK THE ENVIRONMENTAL CONDITIONS EACH WORKING DAY.  
AT LEAST: TEMPERATURE (°C), RELATIVE MOISTURE (%) AND DEW POINT (°C)  
LOGBOOK SHALL BE ALWAYS AVAILABLE AND ANYWAY ATTACHED TO FINAL DOSSIER.
  - (3) CONTRACTOR SHALL ISSUE A RFI FOR EACH NEW DELIVERY.

#### GENERAL NOTES

- 1 THE ENCLOSED ITP'S ARE INDICATIVE AND SHALL BE FOLLOWED FOR DEVELOPING THE JOB 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.



PROJECT:

COMPANY:

QUALITY CONTROL FORM

PC 1

PROJ. No.:

QCF REV. A

SH. 1 OF 1

## PROTECTIVE COATING MATERIAL CHECK

CONTRACTOR:

PC 1 N° \_\_\_\_\_



WORKSHOP WAREHOUSE ☐SITE WAREHOUSE ☐

CHECK LIST		N.A.	ACC.	REMARKS/ REFERENCES	INSPECTORS SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
1	<b>STORAGE</b>  - COAT - CATALYST - THINNER - HARDENER - .....	 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
2	<b>IDENTIFICATION &amp; EXPIRING DATE</b>  - COAT - CATALYST - THINNER - HARDENER - .....	 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
3	<b>COATING EQUIPMENT</b>	<input type="checkbox"/>	<input type="checkbox"/>				
4	<b>CONTROL &amp; TEST INSTRUMENTS</b>	<input type="checkbox"/>	<input type="checkbox"/>				

NOTES:

INSPECTORS	CONTRACTOR	PMC	OWNER
NAME			
SIGNATURE			
DATE			

				PROJECT:			
				COMPANY:			
QUALITY CONTROL FORM <span style="float: right;">PC 2</span>				PROJ. No.:	QCF REV. A	SH. 1 OF 1	
<b>CONCRETE PROTECTIVE COATING SUMMARY REPORT</b>				CONTRACTOR:		PC 2 N° _____	
ITEM / TAG N° _____				ITEM / TAG DESCRIPTION _____			
AREA _____				PAINTING CYCLE _____			
INSPECTIONS (REF. TO QCP 1761.01)		N.A.	ACC	REMARKS/ REFERENCES	INSPECTORS SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
<b>C.1</b>	<b>SURFACE PREPARATION</b>						
	- SURFACE PREPARATION EXECUTION	<input type="checkbox"/>	<input type="checkbox"/>				
	- VISUAL CHECK	<input type="checkbox"/>	<input type="checkbox"/>				
<b>C.2</b>	<b>PRIMER</b>						
	- ENVIROMENTAL CONDITIONS	<input type="checkbox"/>	<input type="checkbox"/>				
	- PRIMER EXECUTION	<input type="checkbox"/>	<input type="checkbox"/>				
C.2.1	VISUAL INSPECTION & THICKNESS CHECK	<input type="checkbox"/>	<input type="checkbox"/>				
C.2.2	ADHESION TEST	<input type="checkbox"/>	<input type="checkbox"/>				
<b>C.3</b>	<b>INTERMEDIATE COATING</b>						
	- CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>				
	- ENVIROMENTAL CONDITIONS	<input type="checkbox"/>	<input type="checkbox"/>				
	- INTERMEDIATE EXECUTION	<input type="checkbox"/>	<input type="checkbox"/>				
C.3.1	VISUAL INSPECTION & THICKNESS CHECK	<input type="checkbox"/>	<input type="checkbox"/>				
C.3.2	ADHESION TEST	<input type="checkbox"/>	<input type="checkbox"/>				
<b>C.4</b>	<b>FINAL COATING</b>						
	- CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>				
	- ENVIROMENTAL CONDITIONS	<input type="checkbox"/>	<input type="checkbox"/>				
	- FINAL COATING EXECUTION	<input type="checkbox"/>	<input type="checkbox"/>				
C.4.1	VISUAL INSPECTION & THICKNESS CHECK	<input type="checkbox"/>	<input type="checkbox"/>				
C.4.2	HARDNESS & ADHESION TEST	<input type="checkbox"/>	<input type="checkbox"/>				
<b>C.5</b>	<b>CHECK OF COATING REPAIR &amp; TOUCH-UP</b>	<input type="checkbox"/>	<input type="checkbox"/>				
NOTES:							
C.6) FINAL DOC. REVIEW	<b>INSPECTORS</b>	<b>CONTRACTOR</b>		<b>PMC</b>	<b>OWNER</b>		
	NAME						
	SIGNATURE						
	DATE						

 		PROJECT:	
		COMPANY:	
QUALITY CONTROL FORM <b>W 12/A</b>		PROJ. No.:	QCF REV. A
<b>CONSTRUCTION MATERIALS APPROVAL</b>		CONTRACTOR:	<b>W 12/A N°</b> _____
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"/>
<b>INSPECTORS</b>	<b>CONTRACTOR</b>	<b>PMC</b>	<b>OWNER</b>
NAME			
SIGNATURE			
DATE			