

 	<b>PROJECT</b>		<b>Standby SRU &amp; Additional Tanks IOCL Paradip Refinery</b>		
	<b>CLIENT</b>		<b>INDIAN OIL CORPORATION LIMITED</b>		
<b>QCP-EARTH MOVING</b>	<b>Project No.</b> 080557C001	<b>Document No.</b> 080557C-000-QCP-1440-001		<b>Rev. No.</b> A	Page 1 of 4

<b>QUALITY CONTROL PLAN</b>  <b>CIVIL WORKS</b>  <b>EARTH MOVING</b>
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TYPE OF QUALITY CONTROL REPORT	CERTIFICATION EXTENT
W 12/A	SINGLE REPORT PER EACH MATERIAL – EACH LAYER
QC 11	SUMMARY PER EACH ITEM
CW 51 – CW 52 – CW 53- CW 61A - CW 61B	SINGLE REPORT PER EACH ITEM OR IDENTIFIED SECTION



**REFERENCE DOCUMENTS:**

- 080557C-000-PP-805      SITE CO-ORDINATION & COMMUNICATION PROCEDURE
- 080557C-000-JSS-1423-001      SPECIFICATION FOR EARTH WORKS
- Drawings

**LEGENDA**

H	=	HOLD (RFI Required - Work stop for inspection)
W	=	WITNESS (RFI required)
WC	=	100 % SUPERVISION AND EXAMINATION BY CONTRACTOR.
S	=	SURVEILLANCE (No RFI)
P	=	PREPARATION
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	19/10/2019	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>

 		PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
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**QUALITY CONTROL PLAN**  
**CIVIL WORKS**  
**EARTH MOVING <sup>(1)</sup>**

**QUALITY CONTROL ACTIVITIES**



Nr.	CHECK AND INSPECTION ITEM	QUALITY CONTROL REPORT	ACTION		NOTES
			CONTRACT.	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.	!	!	
A.3	CONTRACTOR METHOD STATEMENT (IF REQUIRED)	N.A.	P	R	(2)
<b>B)</b>	<b>BEFORE EXECUTION</b>				
B.1	QUARRY OR SITE MATERIALS APPROVAL	W 12/A	WC	INFO	(2) (3)
<b>C)</b>	<b>GENERAL EXCAVATION</b>				
C.1	LOCATION	CW 51	WC	R	
C.2	EXCAVATION AND DEPTH	CW 51	WC	W/R	
C.3	SLOPES	CW 51	WC	W/R	
C.4	TRANSPORT OF EXCAVATED MATERIAL TO DISPOSAL AREA	CW 51	WC	R	
C.5	DRAINAGE	CW 51	WC	W/R	
C.6	COMPACTED SUBGRADE	CW 51	WC	S	
C.7	GROUND DENSITY TEST (IF REQUIRED)	QC 11 / CW 51	WC	W/R	
C.8	PLATE LOAD TEST (IF REQUIRED)	CW 51	WC	W/R	
C.9	FINAL GRADING & FINISHING	CW 51	WC	W/R	
C.10	FINAL DOCUMENTATION REVIEW	CW 51	P	R	
<b>D)</b>	<b>EMBANKMENT</b>				
D.1	GROUND PREPARATION	CW 52	WC	S S	
D.2	LAYING MATERIAL AND COMPACTION	CW 52	WC	W/R	
D.3	GROUND DENSITY TEST (IF REQUIRED)	QC 11 / CW 52	W	W/R	
D.4	PLATE LOAD TEST (IF REQUIRED)	CW 52	WC	S	
D.5	TOP ELEVATION	CW 52	WC	S	
D.6	SLOPES (IF REQUIRED)	CW 52	WC	S	
D.7	DRAINAGE (IF REQUIRED)	CW 52	WC	S	
D.8	FINAL ROLLING AND FINISHING	CW 52	WC		

 	PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
	CLIENT	INDIAN OIL CORPORATION LIMITED		
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**QUALITY CONTROL PLAN**  
**CIVIL WORKS**  
**EARTH MOVING <sup>(1)</sup>**

**QUALITY CONTROL ACTIVITIES**

Nr.	CHECK AND INSPECTION ITEM	QUALITY CONTROL REPORT	ACTION		NOTES
			CONTRACT.	TECHNIP	
D.9	FINAL DOCUMENTATION REVIEW	CW 52	P	R	
<b>E)</b>	<b>SECTION EXCAVATION</b>				
E.1	POSITION AND ROUTING	CW 61A	WC	R	
E.2	EXCAVATION & DEPTH	CW 61A	WC	W/R	
E.3	COMPACTED GROUND	CW 61A	WC	S	
E.4	GROUND DENSITY TEST (IF REQUIRED)	QC11/CW 61A	WC	W/R	
E.5	SAND BED / LEAN CONCRETE ELEVATION (IF ANY)	CW 61A CW	WC	S	
E.6	ANCHOR BLOCKS OPERATIONAL AREA CLEAR (IF ANY)	61A CW 61A	WC	W/R	
E.7	TRANSPORT OF EXCAVATED MATERIAL TO DISPOSAL AREA (IF ANY)	CW 61A	WC	S	
E.8	FINAL DOCUMENTATION REVIEW		P	R	
<b>F)</b>	<b>BACKFILLING</b>	CW 61B			
F.1	SAND COVERING (IF ANY)	CW 61B	WC	S S	
F.2	BACKFILLING	QC 11/CW 61B	WC	W/R	
F.3	GROUND DENSITY TEST (IF REQUIRED)	CW 61B	WC	S	
F.4	FINISHING WORK	CW 61B	WC	R	
F.5	FINAL DOCUMENTATION REVIEW		P		
<b>G)</b>	<b>SOIL SCRUBBING (IF ANY)</b>	CW 53		S	
G.1	LOCATION	CW 53	WC	S	
G.2	REMOVAL FROM SITE OF ANY SURFACE OBSTRUCTION AND TRANSPORT TO DISPOSAL AREA (IF ANY)		WC		
		CW 53		S S	
G.3	SOIL SCRUBBING	CW 53	WC	W/R	
G.4	TRANSPORT OF REMOVED SOIL TO INDICATED AREA	CW 53	WC	R	
G.5	FINAL GRADING	CW 53	WC		
G.6	FINAL DOCUMENTATION REVIEW		P		

 		PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
		CLIENT	INDIAN OIL CORPORATION LIMITED		
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NOTES: (1) EXCLUDING ROADS & YARDS (FLEXIBLE TYPE) & RIGID PAVING CONTROLLED BY QCP 1450.01 & 1713.01  
(2) A COPY OF THE DOCUMENT WILL BE DELIVERED TO OWNER FOR INFORMATION  
(3) MATERIAL APPROVAL WILL BE EXECUTED ONLY FOR MATERIAL SUPPLIED BY CONTRACTOR

#### GENERAL NOTES

- 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.
- 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:			
<b>QUALITY CONTROL FORM</b> <span style="float: right;"><b>CW 51</b></span>				PROJ. No.:	QCF REV.	SH. 1 OF 1	
<b>GENERAL EXCAVATION – SOIL FINISHING SUMMARY REPORT</b>				CONTRACTOR:		CW 51 N° _____	
LOCATION IDENTIFICATION / ITEM _____  COORDINATES _____  AREA _____  DWG'S & REV. _____							
INSPECTIONS (Ref. to QCP 1440.01)		N.A.	ACC.	REMARKS/ REFERENCES	INSPECTOR SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
C.1	LOCATION	<input type="checkbox"/>	<input type="checkbox"/>				
C.2	EXCAVATION AND DEPTH	<input type="checkbox"/>	<input type="checkbox"/>				
C.3	SLOPES	<input type="checkbox"/>	<input type="checkbox"/>				
C.4	TRANSPORT OF EXCAVATED MATERIAL TO DISPOSAL AREA	<input type="checkbox"/>	<input type="checkbox"/>				
C.5	DRAINAGE	<input type="checkbox"/>	<input type="checkbox"/>				
C.6	COMPACTED SUBGRADE	<input type="checkbox"/>	<input type="checkbox"/>				
C.7	GROUND DENSITY TEST	<input type="checkbox"/>	<input type="checkbox"/>	QC 11 (*)			
C.8	PLATE LOAD TEST	<input type="checkbox"/>	<input type="checkbox"/>				
C.9	FINAL GRADING & FINISHING	<input type="checkbox"/>	<input type="checkbox"/>				
NOTES: (*) THE QC REPORTS N° SHALL BE INDICATED IN THE RELEVANT HERE BELOW SPACES :  QC 11 N° _____							
<b>C.10) FINAL DOC. REVIEW</b>	<b>INSPECTORS</b>		<b>CONTRACTOR</b>		<b>PMC</b>		<b>OWNER</b>
	NAME						
	SIGNATURE						
	DATE						

				PROJECT:			
				COMPANY:			
<b>QUALITY CONTROL FORM</b> <span style="float: right;"><b>CW 52</b></span>				PROJ. No.:	QCF REV.	SH. 1 OF 1	
<b>GENERAL EMBANKMENT SUMMARY REPORT</b>				CONTRACTOR:		CW 52 N° _____	
LOCATION IDENTIFICATION / ITEM _____  COORDINATES _____  AREA _____  DWG'S & REV. _____							
INSPECTIONS (Ref. to QCP 1440.01)		N.A.	ACC.	REMARKS/ REFERENCES	INSPECTOR SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
D.1	GROUND PREPARATION	<input type="checkbox"/>	<input type="checkbox"/>				
D.2	LAYING MATERIAL AND COMPACTION	<input type="checkbox"/>	<input type="checkbox"/>				
D.3	GROUND DENSITY TEST	<input type="checkbox"/>	<input type="checkbox"/>	QC 11 (*)			
D.4	PLATE LOAD TEST	<input type="checkbox"/>	<input type="checkbox"/>				
D.5	TOP ELEVATION	<input type="checkbox"/>	<input type="checkbox"/>				
D.6	SLOPES	<input type="checkbox"/>	<input type="checkbox"/>				
D.7	DRAINAGE	<input type="checkbox"/>	<input type="checkbox"/>				
D.8	FINAL ROLLING AND FINISHING	<input type="checkbox"/>	<input type="checkbox"/>				
NOTES: (*) THE QC REPORTS N° SHALL BE INDICATED IN THE RELEVANT HERE BELOW SPACES :  QC 11 N° _____							
<b>D.9 FINAL DOC. REVIEW</b>	<b>INSPECTORS</b>	<b>CONTRACTOR</b>		<b>PMC</b>		<b>OWNER</b>	
	NAME						
	SIGNATURE						
	DATE						



PROJECT:

COMPANY:

QUALITY CONTROL FORM

CW 53

PROJ. No.:

QCF REV.

SH. 1 OF 1

**SOIL SCRUBBING  
SUMMARY REPORT**

CONTRACTOR:

CW 53 N° \_\_\_\_\_

COORDINATES \_\_\_\_\_

AREA \_\_\_\_\_

SUB AREA \_\_\_\_\_

DWG'S &amp; REV. \_\_\_\_\_

Nr.	INSPECTIONS (Ref. to QCP 1440.01)	N.A.	ACC.	REMARKS/ REFERENCES	INSPECTOR SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
G.1	LOCATION	<input type="checkbox"/>	<input type="checkbox"/>				
G.2	REMOVAL FROM SITE OF ANY SURFACE OBSTRUCTION AND TRANSPORT TO DISPOSAL AREA	<input type="checkbox"/>	<input type="checkbox"/>				
G.3	SOIL SCRUBBING	<input type="checkbox"/>	<input type="checkbox"/>				
G.4	TRANSPORT OF REMOVED SOIL TO INDICATED AREA	<input type="checkbox"/>	<input type="checkbox"/>				
G.5	FINAL GRADING	<input type="checkbox"/>	<input type="checkbox"/>				



NOTES:

G.6) FINAL DOC. REVIEW	INSPECTORS	CONTRACTOR	PMC	OWNER
	NAME			
	SIGNATURE			
	DATE			

QCF STANDARD REV.0

				PROJECT:			
				COMPANY:			
QUALITY CONTROL FORM <b>CW 61 A</b>				PROJ. No.:	QCF REV. 0	SH. 1 OF 1	
<b>SECTION EXCAVATION SUMMARY REPORT</b>				CONTRACTOR:		CW 61 A N° _____	
TRENCH IDENTIFICATION / ITEM  COORDINATES _____  AREA _____  DWG'S & REV. _____				EXCAVATION FOR: U/G PIPING <input type="checkbox"/> U/G CABLES <input type="checkbox"/> FOUNDATIONS <input type="checkbox"/> ..... <input type="checkbox"/>			
INSPECTIONS (Ref. to QCP 1440.01)		N.A.	ACC.	REMARKS/ REFERENCES	INSPECTOR SIGNATURE & DATE		
					CONTRACTOR	TECHNIP	OWNER
E.1	POSITION AND ROUTING	<input type="checkbox"/>	<input type="checkbox"/>				
E.2	EXCAVATION & DEPTH	<input type="checkbox"/>	<input type="checkbox"/>				
E.3	COMPACTED GROUND	<input type="checkbox"/>	<input type="checkbox"/>				
E.4	GROUND DENSITY TEST	<input type="checkbox"/>	<input type="checkbox"/>	QC 11 (*)			
E.5	SEND BED / LEAN CONCRETE ELEVATION	<input type="checkbox"/>	<input type="checkbox"/>				
E.6	ANCHOR BLOCKS OPERATIONAL AREA CLEAR	<input type="checkbox"/>	<input type="checkbox"/>				
E.7	TRANSPORT OF EXCAVATED MATERIAL TO DISPOSAL AREA	<input type="checkbox"/>	<input type="checkbox"/>				
NOTES: (*) THE QC REPORTS N° SHALL BE INDICATED IN THE RELEVANT HERE BELOW SPACES : QC 11 N° _____							
<b>E.8) FINAL DOC. REVIEW</b>	<b>INSPECTORS</b>	<b>CONTRACTOR</b>		<b>PMC</b>		<b>OWNER</b>	
	NAME						
	SIGNATURE						
	DATE						



 				PROJECT:		
				COMPANY:		
QUALITY CONTROL FORM		<b>CW 61 B</b>		PROJ. No.:	QCF REV. 0	SH. 1 OF 1
<b>BACKFILLING SUMMARY REPORT</b>				CONTRACTOR:		<b>CW 61 B N° _____</b>
TRENCH IDENTIFICATION / ITEM COORDINATES _____ AREA _____ DWG'S & REV. _____				EXCAVATION FOR: U/G PIPING <input type="checkbox"/> U/G CABLES <input type="checkbox"/> FOUNDATIONS <input type="checkbox"/> ..... <input type="checkbox"/>		
<b>INSPECTIONS (Ref. to QCP 1440.01)</b>		<b>N.A.</b>	<b>ACC.</b>	<b>REMARKS/ REFERENCES</b>	<b>INSPECTOR SIGNATURE &amp; DATE</b>	
					CONTRACTOR	TECHNIP
						OWNER
F.1	SAND COVERING	<input type="checkbox"/>	<input type="checkbox"/>			
F.2	BACKFILLING	<input type="checkbox"/>	<input type="checkbox"/>			
F.3	GROUND DENSITY TEST	<input type="checkbox"/>	<input type="checkbox"/>	QC 11 (*)		
F.4	FINISHING WORK	<input type="checkbox"/>	<input type="checkbox"/>			
NOTES: (*) THE QC REPORTS N° SHALL BE INDICATED IN THE RELEVANT HERE BELOW SPACES : QC 11 N° _____						
<b>F.5) FINAL DOC. REVIEW</b>	<b>INSPECTORS</b>	<b>CONTRACTOR</b>		<b>PMC</b>	<b>OWNER</b>	
	NAME					
	SIGNATURE					
	DATE					



PROJECT:

COMPANY:

QUALITY CONTROL FORM

QC 11

PROJ. No.:

QCF REV.

SH. 1 OF 1

**COMPACTION TEST  
SUMMARY**



CONTRACTOR:

QC 11 N° \_\_\_\_\_

PROGR	ITEM OR LOCATION IDENTIFICAT.	AREA	DATE	MATERIAL TO BE COMPACTED (sub-grade, backfilling, sub- base.....etc.)	VISUAL CHECK	LAYER THICKNESS CHECK	SMOOTHNES S CHECK	QUALIFIED LABORATORY TEST REP. N° (REPORT ATTACHED)	No. OF LAYERS REQ.	LAYER N°	TEST RESULT		REMARKS
											ACC.	NOT ACC.	
1											<input type="checkbox"/>	<input type="checkbox"/>	
2											<input type="checkbox"/>	<input type="checkbox"/>	
3											<input type="checkbox"/>	<input type="checkbox"/>	
4											<input type="checkbox"/>	<input type="checkbox"/>	
5											<input type="checkbox"/>	<input type="checkbox"/>	
6											<input type="checkbox"/>	<input type="checkbox"/>	
7											<input type="checkbox"/>	<input type="checkbox"/>	
8											<input type="checkbox"/>	<input type="checkbox"/>	
9											<input type="checkbox"/>	<input type="checkbox"/>	
10											<input type="checkbox"/>	<input type="checkbox"/>	

NOTE: THIS QCF CAN BE DONE BY ELECTRONIC SHEET

INSPECTORS	CONTRACTOR	PMC	OWNER
NAME			
SIGNATURE			
DATE			

 		PROJECT:	
		COMPANY:	
QUALITY CONTROL FORM <b>W 12/A</b>		PROJ. No.:	QCF REV. 0
<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			