

Willingness to serve

GOOD PRECTICES/ INITIATIVES

"QUALITY WORK"

PRESENTATION



Quality Theme

Constant of the service of the servi





Quality Objectives – F.Y. 2018

INGINEERING AND CONTRACTIN

OBJECTIVES	STRATEGY	TARGETS
Maintain an effective quality management system in compliance with ISO 9001 standards (Corporate level)	Maintain ISO 9001 Certificate	Zero Major Non-Conformity
Enhance customer satisfaction	Monitor and track the Customer feedback/ complaint process to ensure issues raised by Customers are properly addressed and closed out within time frame. Conduct customer satisfaction survey at all projects at 50% and 100% of project completion.	Outstanding Feedback/complaints rate: 0% Client Satisfaction Index > 80%
Consistently implement the quality management systems across the business.	Implement the internal audit process (QA) to verify the compliance of project management system against corporate requirements. Monitor the status of closing out audit observations to ensure corrective actions are taken to rectify identified issues in timely manner.	Level 2 Quality Audit Score > 85% Outstanding Observations Rate < 25%
Efficiently manage project quality performance to ensure deliver high quality project to our Clients.	Fully develop construction WMS and ITP's to ensure execution works meet the Industrial Standards and contractual specifications. Conduct regular Quality Control Audits on operations activities including Subcontractor works and monitor the status of closing out identified Non-Conformities. Control Subcontractors and suppliers performance	Inspection rate: 100% as per ITP Outstanding NCR's Rate < 25% Vendor Pre-qualification Rate: 100% (for major suppliers and subcontractors) Vendor performance evaluation Rate: 100% (for major suppliers and subcontractors)
Enforce the awareness of quality concept in the business.	Frequently conduct quality induction and tool box talks for project staff	Quality Management systems Induction Rate : 100% Quality Training: 2 sections/ month Quality Walk: 1/ month



Duties & Responsibilities of Quality Team

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Quality Manager –

- > To prepare QP,ITP,s as per specifications.
- To Ensure the Implementation of SBT Quality Management system at Project site .

QA-QC/Lab Engineers/Supervisors –

- > To Ensure that work is being carried out as per WMS.
- Inspection of the work ,conducting Lab tests as per ITP.
- Inspection & testing of incoming materials at site /plant.
- Inspection of site activities, Subcontractor's work, to issue OFI to avoid poor quality/defective work, NCRs for Non conforming works & follow up for their closure.
- Maintaining quality records.
- Submit Weekly Reports / Monthly Reports.
- Ensure routine Calibration of measuring equipment's.



Corporate Procedures-Quality

SBT-QAM-PR-001 -Management Review Meeting

This procedure sets out the process for scheduling and conducting regular management reviews of the company's management systems to ensure their continuing suitability adequacy and effectiveness.

Management Reviews shall be held at the following intervals:

- Meetings at Corporate level to review the functionality of the Corporate Integrated Management System – at least once in each financial year.
- Meetings at Project Levels to review the functionality of the Project Integrated Management System – at least twice in each financial year. Quality Monthly Report shall be prepared and forwarded to HO for records.



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SBT-QAM-PR-002 -Procedures

This procedure describes the Company's guidelines on the preparation of procedures to ensure that system procedures are consistent with the requirements of Quality Standards as well as Company policies.

- At Corporate Level, the Managing Director and Business Partner HSSEQS are responsible to ensure Corporate procedures are in compliance with SBT Management system.
- > At Project Level, Project Management Team and Project Quality Representative are responsible to ensure that SBT Procedures are communicated, implemented and maintained.
- > Corporate Systems Representative is responsible to ensure latest versions of SBT Procedures and SOP's are uploaded into the company Server.



SBT-QAM-PR-003 – Project Management System

This procedure describes the Company's requirements for the preparation of Project Management system documentation including Project Management Plan in order to ensure that project documents are in line with Management System.



SBT-QAM-PR-004 –Quality Assurance Audit

This procedure describes the Company's guidelines on quality assurance audits at all business levels. These audits are essential for the Company to:

- Assess and monitor business performance.
- Ensure the system is properly implemented in compliance with ISO 9001 standard, contractual and regulatory requirements.
- Ensure the system can be continually improved.procedures are consistent with the requirements of Quality Standards as well as Company policies.

The Frequency of Audit is as below:

- ✓ Level I audit Conducted by Project Quality Manager on Quarterly Basis.
- ✓ Level II Audit Conducted by Business Unit Team once in a 6 months.
- ✓ Level III Audit Conducted by Third Party for Certification Purpose.
- ✓ Quality Walk- Conducted by Project Quality Manager on Monthly Basis.



SBT-QAM-PR-005 –Internal Non Conformity

This procedure describes the Company's guidelines on managing internal nonconforming items or services. The purpose of this procedure is to:

Identify, document and manage items that do not meet the agreed requirements and prevent their inadvertent use.

Identify improvement areas by recording and analyzing causes of not meeting the agreed requirements.-**OFI is issued**

Control the quality internal failure cost i.e. the cost of defects and nonconformities to enable actions to be taken to reduce the project cost..

Grade	Grade Descriptions	
	The non-conformance work results in significantly delay of project progress.	
Major NCR	The failure cost > INR 5,00,000 (Five Lakh)	
,,	The non-conformance work completely breaches an approved work method statement (WMS) / contractual requirements/ company requirements.	
	The non-conformance work that do not have impact on the project progress.	
Minor NCR	The failure cost < INR 5,00,000 (Five Lakh)	
	The non-conformance work due to the partial non-fulfilment of approved WMS / contractual requirements/ Corporate requirements.	

1.1 Nonconformance Categories:



SBT-QAM-PR-006 –Control of Quality Cost

This procedure describes the Company's guidelines on project reporting of quality internal failure cost i.e. the cost of defects and nonconformities to enable actions to be taken to reduce the project cost.

- The Operations team and accounting department is responsible to collect the cost related to non-conformance, allocate these costs to the agreed activities and provide the data to quality Department for quality cost assessment.
- The quality management is responsible to analyze the quality related costs and take appropriate controlling actions.



SBT-QAM-PR-007 –Quality Training

This procedure describes the Company's guidelines on the SBT Quality Training process. The purpose of quality training is to give :

- > An Overview of ISO 9001 requirements.
- Quality Policy, Objective and Performance
- Customer Satisfaction
- Non-conformance Report and Opportunity For Improvement
- Document Control process
- Continual Improvement and Innovation

Project Quality Manager is responsible to develop and implement Quality Control Training at planned intervals.

At project level, Project Quality Manager shall liaison with HR Department to develop the Training Need analysis and Training matrix to implement the Quality Control Trainings for the Current Year .



Quality Management System Training & Induction











Quality Management System Training & Induction











SBT-QAM-PR-008 – Monitor of Customer Satisfaction

This procedure describes the process of gathering and monitoring the Client's perception on quality aspects to ensure SBT deliver the project that meet Client's expectation.

The Quality Representative is responsible to ensure the effectiveness of the process and to maintain a good working relationship with Client to ensure Client's addressed issues are properly close out in timely manner.

The Project Quality Representative shall implement the Client Satisfaction Survey at 50% and 100% of project completion.



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Customer satisfaction survey form



CUSTOMER SATISFACTION SURVEY

Date:

Help us to improve our business performance and strengthen our Client relationship. Your feedback is greatly appreciated. Please take five minutes to record your opinions on our performance. This survey is only used for continual improvement of services to our client and shall not be used in any way for contractual claims/disputes, whatsoever.

Rating scale: Excellent: 100% Good: 80% Average	e: 50% Poo	r: 30%	Unacceptable: 0%	
	Excellent Good	Average	Poor Unacceptable	
1. How did the Project Team response to your concerns?				
2. How do you feel about project planning activities?				
3. Do you think our document control process is capable to handle project documentation?				
4. How would you rate our Engineering Review Process (i.e. drawings and technical documents)?	ппппп			
5. How satisfied are you with the quality of the work?	ппппп			
6. Do you believe Llhas a good Management Systems in place?				
Do you believe SBT commits to providing employees and persons under our care a safe working environment?				
8. How good is SBT in preventing impact of its works to the environment?				
9. How is our IT support function?				
10. How would you rate SBT in terms of managing of Subcontractors and Suppliers?				
11. Do you think Llprovides sufficient resource for executing the project?				
12. How do you feel about the relations between Leighton and the community where we are working in?	ппппп			
13. How would you rate about SBT performance overall?	ппппп			

Project:

SBT-QAM-PR-FM-015(0)



<u>SBT-QAM-PR-009 –Quality Awards</u>

This procedure sets out the Quality Award Processes to be adopted at SBT. This procedure explains about the criterions, categories of awards, selection methodology and frequency for such awards.

The Quality Awards Programmed is designed to recognize and reward the individuals/ project teams who have excelled in their performance in regards of quality aspect. The rewarded individuals/ projects are set as the role models to cultivate the quality culture within the organization..



Quality Award

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Quality Award Distribution At Mahindra Project



Quality System Documents

Plans

- Procedures
- Construction Method Statements
- Standard Operating Procedures
- Inspection & Test Plans (ITP)
- Records (Checklists, As Builts, Test Reports)



Quality Initiatives

Quality Walks

- Quality Walk Closeout Report
- Quality Pocket Card
- Idiot Guide for Quality
- Quality Control Training



Quality Initiatives

Quality Walks

The Project Quality Manager shall decide the frequency of "Quality Walks". He shall notify the concerned person (supervisor, project engineer, quality engineer, project manager, sub-contractor's engineer, client's representative, if any) one week prior to such walks.

The non conformities which are already raised in the form of Non-Conformance Report shall not be raised in such walks.



Quality Walk Report

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Quality Walk Report

QA Team:		Report No: 04	
SuhailQuasim	WaghSwapnil	Date: 31/02/17	
VinodPatil	Mishra	Inspection Area: Mahindra Project Package:	
Sanjay Saini	Ramesh Mane	- rackage.	
Rupesh	Amol Kamble		
surface. Location: villa no.16 Action required: Cl	neck properly concrete and bleeding and over t. nod	<section-header></section-header>	
Description: Starter f		Photo-02	
Location:: Drain wor		A ASTRAGAT ADDITION A THAT BOAT A THE REAL ADDITION	
concrete with stopper.	leed to properly finish		
Action By: Ansari/ Vi Date completed: Verify By: Suhail Qua	nod		



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Quality Walk Closeout Report

STRONG BULLER ENDER MULLIPUSE (* 1914			
		Quality Walk Close Out Report	
QA	Team:	Report No: 02	
SuhailQuasim	WaghSwapnil	Date: 27/12/16	
VinodPatil	Mishra	Inspection Area: Mahindra Project	Cloes out point
Sanjay Saini		Package:	
Rupesh			
Description: Curing compopen area.	oound barrels found kept in	Photo-01	
Location: Near Quality L	ab		
Action required: Need to	keep in shaded area.		0° 500
Action By: Saini/ Vinod			
Date completed:			
Verify By: SuhailQuasim		Photo-02	
Description: Honey comb	found in kicker	FIOLO-02	
Location:: villa no-35			
Action required: Need to before casting concrete.	check the shuttering gaps		
Action By: Saini/ Vinod			
Date completed:			
		R. S. S. S. S. S.	
Verify By: SuhailQuasim		Director and	
Description: Honey comb	found in kicker.	Photo-03	
		A A	
Location:: villa no-16 Action required: Need to before casting concrete.	o check the shuttering gaps	A. A.	
Action By: Saini/ Vinod			
Date completed:			
Verify By: SuhailQuasim			
		Photo-04	
Description: Honey comb	found in kicker.		
Location:: villa no-16 Action required: Need to before casting concrete.	to check the shuttering gaps		



Quality Initiatives

Pocket Cards

The Quality Pocket Cards are the pocket sized cards which project persons can carry and refer in the field.

The Project QA/QC Manager shall select or approve the content of these cards e.g. Lap lengths, concrete covers required, status of calibration, grades of concrete at different levels, unit weight of steel bars, aggregate etc. These cards should be distributed to project personnel



Sample Quality Pocket Cards

	QUALITY OBSERVATION		
1	Hook bending to be done properly		
2	Tying of rings to be done properly		
3	Concrete top levels to be checked properly		
4	Covers to be maintained properly		
5	Master rings to be placed 100mm above & below couplers in columns		
6	Caps to be placed to protect threaded portion of rebar		
7	Wooden gauges to be removed before concreting		
8 Plumb checking after Concreting to be done			
9	Curing Compound to be applied immediately after de- shuttering		
10	Rebar request Form to be completed properly		
11	If Diameter of links are changed, spacing to be adjusted accordingly		
12	delays in deshuttering to be avoided		

	Calibration Record			
SI No. Description of Material		Serial No.	Date of Calibration	Due Date of Calibration
Α	Alliance			
1	Auto Level	492634	8.07.09	07.07.10
2	Auto Level	492998	8.07.09	07.07.10
3	Auto Level	491607	4.12.09	03.12.10
4	Total Station	202243	8.07.09	07.07.10
5	Total Station	63030073	18.08.09	17.08.10
B VSL				
1	Pressure Gauge	(VSL/PG/095)	16.11.09	16.11.10
2	Pressure Gauge	(VSL/PG/093)	16.11.09	16.11.10
3	Pressure Gauge	(VSL/PG/081)	11.11.09	11.11.10
4	Hydraulic Jack	(VSL/TCH/035)	26.03.10	26.03.11
5	Hydraulic Jack	(VSL/TCH/033)	26.03.10	26.03.11
6	Hydraulic Jack	(VSL/TCH/072)	26.03.10	26.03.11



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IMPORTANT BLOCK/PLASTER GUIDE				
S.NO	DESCRIPTION			рното
	BLOCK WORK MIX RATIO: PLASTERING MIX RATIO:	100 mm Block work	1:4	
1		Above 100 mm Block work	1:6	28 6 Y P
T		Wall plaster 1:4 (1:6 if ready mix)		
		Ceiling plaster	1:3	
	PLASTERING WIX RATIO.	Chasing filling	1:3	A
		Fiber mesh fixing	1:3	DUPACISMA STOR
		Ceiling	10mm	- 10000
2	PLASTER THICKNESS	Inner wall	12mm	190 AT
2	PLASTER THICKNESS	External wall	20mm	1
		Block Bed mortar(Block around)	12mm	BUT BUT BUT TO



Fix fiber mesh over Conduits and blocks & concrete joints

3



S.NO	DESCRIPTION	РНОТО
4	Mix mortar Quantity for 2 hours requirement only	Diratifiert azati
5	Wet the blocks with water prior to use.	
6	Use straight edges and line thread to maintain line & level.	



S.NO	DESCRIPTION	РНОТО
7	Maintain straight and clean interface between wall & ceiling joints.	
8	Reuse the falling mortar within 1 hour	
9	Plaster construction joints should be 90 degree.	
10	Write date on the wall and do the curing for the 7 days.	07-02-2014



S.NO	DESCRIPTION	РНОТО
7	Maintain straight and clean interface between wall & ceiling joints.	
8	Reuse the falling mortar within 1 hour	
9	Plaster construction joints should be 90 degree.	
10	Write date on the wall and do the curing for the 7 days.	07-02-2014



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THANKS FOR YOUR VALUABLE TIME