

File Ref:21641199

M- FALCON
LALIT ESTATE, BANER, PUNE, MAHARASHTRA - 411045
QAQC AUDIT REPORT
01 JULY 2024



**BUREAU
VERITAS**

Shaping a World of Trust

Head Office

72 Business Park, 8th floor
Marol Industrial Area,
Opposite Seepz Gate No. 2,
MIDC Cross Road "C",
Andheri - (East)
Mumbai - 400 093.

www.bureauveritas.co.in



Building and Infrastructure Division
Site Inspection/ Audit Report

INSPECTION / AUDIT REPORT/MGPUNE/FALCON/BVP/QAQC/CIVIL/IR-02		REV.NO. 0
<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Interim	<input type="checkbox"/> Final
<input type="checkbox"/> Resident.		
Inspection/ Audit Requested By : Malpani Group		
Inspection / Audit performed as Recognised Authority : Rohan Patil		Yes <input checked="" type="checkbox"/> NO: <input type="checkbox"/>
BV Job / Zig No : 21641199		

Project Name : M Falcon	IPO (if applicable):N/A
Audit by : Bureau Veritas (India)Pvt Ltd, Mumbai	PO no. WO/BK/2024/141 Dt. 31.01.2024
Vendor/Manufacturer : Malpani Group	PO No. N/A (Client to Vendor)
Architect : Morphogenesis	Contractor : S J Contracts Pvt. Ltd.
Sub Vendor : NA	Vertical : Civil
Inspection Location : M Falcon – Baner Pune	Previous Inspection : 20.03.2024
Inspection Performed from : 1 st July 2024.	Next Inspection : As per Clients requirement


Building and Infrastructure Division

IND-TQR_01_B &I_Rev. 03dated 26 Dec. 2019



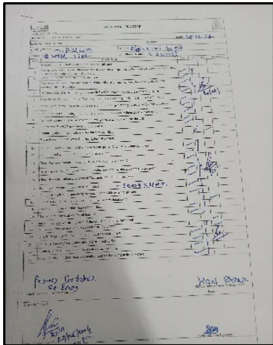

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BV STAMP



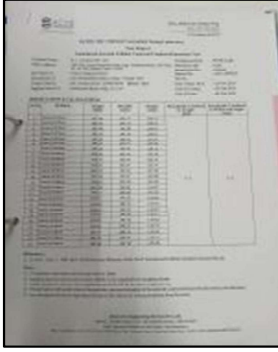

Building and Infrastructure Division
Site Inspection/ Audit Report

A. INSPECTION & FINDINGS					
Sr. No.	LOCATION	AUDIT FINDINGS / OBSERVATIONS	TYPE OF FINDINGS	IMAGE/ EVIDENCE	Status
1	M Falcon Site	Construction status of Tower	Info	Building : 2 Basement + Ground + Mezzanine + 5 Parkings + 17 Floors Current Status : RCC Works 95% + Internal plaster 88% + Water Proofing 66%	Info
2	Site Office	Project quality plan with QAP & ITP was available at Site Office	Positive		


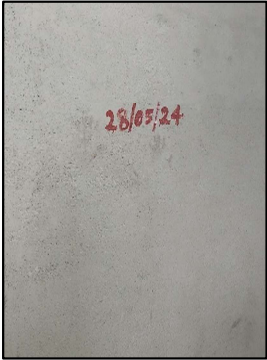


Building and Infrastructure Division
Site Inspection/ Audit Report

3	Site Office	NCR format reviewed. NCR open status need to be properly remarked and closed.	Recommendation	 	
4	Site Office	Randomly checked the Checklist of different works are maintained properly along with RFI . Also training record reviewed.	Positive	 	




Building and Infrastructure Division
Site Inspection/ Audit Report

5	Site Office	Randomly cheked drawing Register checked. Latest drawing were updated in the register	Positive	 	
6	Site Office	Randomly reviewed in house as well as third party test reports for construction materials & found maintained properly as per ITP requirements	Positive	 	


Building and Infrastructure Division
Site Inspection/ Audit Report

7	Site	Work completed dates were mentioned on plaster, Block work etc.	Positive	 	
8	Site	Tile work checked for plumb and alignment. Mock up of tile work has been carried out and has been approved before the start of work.	Positive	 	




Building and Infrastructure Division
Site Inspection/ Audit Report

9	Quality Lab	Concrete Cube Register regularly updated and results observed satisfactory.	Positive		
10	Site Inspection	<p>Internal plaster- 6th floor</p> <p>Plaster checked for vertical plumb and found satisfactory.</p> <p>Dimension of opening checked wrf. To DWG. No. FA-07-P ,Rev- 3 dtd 14.07.2021 .</p> <p>Sill level of opening checked observed a 4mm level difference.</p>	Minor observation	 	

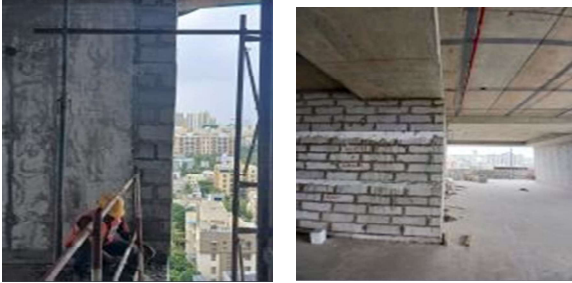

Building and Infrastructure Division
Site Inspection/ Audit Report

11	Site Inspection	Block work- 6 th floor As per method statement for Top layer of block work full size block are to be used it was observed at some places they were not used.	Minor Observation		
13	Site Inspection	Nosing to the staircase steps has been done.	Positive		

Building and Infrastructure Division
Site Inspection/ Audit Report

14	Site Inspection	Waterproofing – 7 th Floor Deviation observed in material used as per approved Method statement of waterproofing . As per WMS brickbat coba to be used but at site its was observed AAC blocks were used instead of brickbat.	Major Observation			
15	Site Office	MIR format for Incoming material is filled on regular basis & MTC /tests to be conducted as per ITP requirements.	Positive			

Building and Infrastructure Division
Site Inspection/ Audit Report

16	Site Inspection	Blockwork were observed out of plumb (checked at floor level 6 th and 7 th)	Minor observation		
17	Site Inspection	Offset observed at lintel and blockwork on 6 th floor level. Also Full block not used in the course.	Minor Observation		

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Site Inspection/ Audit Report

18	Site Inspection	Blockwork At some places vertical joints not staggered at 1/3 rd length of the block (For 600mm Block length – Joint to be placed at min 200mm or as per manufacture recommendation.	Minor Observation	 	
19	Terrace Lift Top slab	Cover to Reinforcement were missing to the beam at lift top slab. Formwork used has ruptured surface. Damaged shuttering material used for beam side.	Minor Observation	 	

Building and Infrastructure Division
Site Inspection/ Audit Report

20	Site Inspection	Column SW10 honeycombing observed and formwork joint offset observed	Minor Observation	 	
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B.

☐ Satisfactory (Without Comments)
 ☒ Satisfactory with Comments (Any previous NC is Still Open)
 ☐ Not Satisfactory (NCR Raised during the inspection)

Inspection Summary: (For Details Refer Sec- A)

Good Practice:-





- 1) Stage wise completion dates of block work, plastering work etc are mentioned.
- 2) Mock up done and approved before starting of tiling work.
- 3) Information with respect to the quality work to be carried out displayed.
- 4) Drawing register are properly maintained.
- 5) Nosing to the steps of staircase are done to avoid damage to the edges.

Observations:-

- 1) Cover to the reinforcement not provided to the beam of top slab.
- 2) Block work observed out of plumb and joints are not staggered 1/3rd of block length
- 3) Opening of Fire stack 7th floor sill not in level and face not in plumb
- 4) Column SW10 offset at panel joint and honeycombing observed
- 5) AAC bat used instead of brick bat for waterproofing.
- 6) Full block not used at top course of AAC block work

Open NC : ☐ Yes, details in Section H ☒ NO

Building and Infrastructure Division
Site Inspection/ Audit Report

On behalf of Bureau Veritas BV Inspector: Rohan Patil  	On behalf of Bureau Veritas BV Coordinator: Priyanka Patil  				
BV Office: Mumbai	Inspection Report Date: 10th July 2024				
Distribution: <input checked="" type="checkbox"/> CLIENT <input checked="" type="checkbox"/> BV <input type="checkbox"/> VENDOR	Attachments Report: <input checked="" type="checkbox"/> Yes, details in section J <input type="checkbox"/> NO				
C. REFERENCE DOCUMENTATION <input type="checkbox"/> Refer to attachment section J instead					
TITLE	REFERENCE	REV	APPROVAL STATUS	APPROVED BY	DATE (DD-MM-YYYY)
Project Quality Plan	M Falcon	N/A	Approved	Malpani Group	N/A
D. ATTENDEES					
ATTENDEES	DESIGNATION	REPRESENTING			
1) Mr. Bhushan Dandawate	Project Manager	Malpani			
2) Mr. Devendra Shinde	Asst. Manager QA/QC	Malpani			
3) Mr. Akshay Kulkarni	Sr. Engineer	Malpani			
4) Mr. Pravin Gadekar	Sr. Engineer	Malpani			
5) Mr. Yogesh Mali	Safety Officer	Malpani			
E. MEASURING AND TESTING EQUIPMENTS USED <input type="checkbox"/> Refer to attachment section J instead (Indicate if separate document list is provided in attachment)					

Building and Infrastructure Division
Site Inspection/ Audit Report

EQUIPMENT TYPE	EQUIPMENT ID NO. & Name of Calibration Certificate Issuer & Certificate Number	Traceable to NABL or Compliant to ISO 17020 requirement (Yes/ No)	CALIBRATION DATE/CALIBRATION DUE DATE.	REMARK			
N/A							
Note – Whether all above Equipment/Instrument listed is checked for Suitability and condition and found acceptable? - Yes							
F. INSPECTION /AUDIT DETAILS							
Audit Scope: Site Inspection & Quality Assurance limited to TPI Services in terms of reviewing Quality Assurance plans, various documents generated during construction, Surveillance inspection services at site and bought out items related to Civil work, MEP & Site development. Consultant shall do the pre- delivery inspection of the final product and shall provide the report/snags.							
G. HEALTH, SAFETY & ENVIRONMENT COMMENTS/OBSERVATION							
1) Proper safety has been used on site during inspection activity. 2) Safe access was available for audit. 3) HSE training is going on regular basis. 4) TBT Training is going on regularly							
H. NON CONFORMITIES USED <input type="checkbox"/> Refer to attachment section J instead (Indicate if separate document list is provided in attachment)							
NC No.	Description	Status Raised On	Raised on	Report no.	Closed on	Report No.	Comments
	N/A						
I. (Earlier + Current) Report Pending Punch points (Carry forward all open points from earlier visit) <input type="checkbox"/> Refer to attachment section J instead							
Sr. No.	Description	Report no & Date			Status (Open /Close)		
	N/A						



Building and Infrastructure Division
Site Inspection/ Audit Report

J. ATTACHMENTS:

	N/A		





Building and Infrastructure Division
Site Inspection/ Audit Report

MEP INSPECTION / AUDIT REPORT/MGPUNE/FALCON/BVP/QAQC/MEP/IR-01		REV.NO. 0
<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Interim <input type="checkbox"/> Final <input type="checkbox"/> Resident.		
Inspection/ Audit Requested By : M/s Malpani Estate.		
Inspection / Audit performed as Recognised Authority : Mr. K.Ranganathan		Yes: <input checked="" type="checkbox"/> NO : <input type="checkbox"/>
BV Job / Zig No :		



Project Name : M-Falcon, Lalit Estate, Baner, Pune.	IPO (if applicable):N/A
Audit by : Bureau Veritas (India)Pvt Ltd, Mumbai	PO no. WO/BK/2024/141 Dt. 31.01.2024
Vendor/Manufacturer : Malpani Estate.	PO No.NA
Architect : Meraki Design	MEP Consultant : MEP consulting Engineers
Sub Vendor : 1. SL Electrical 2. Electromech Fire fighting Pvt.Ltd 3. Sriansh Engineers - Geberit	Vertical : MEP
Inspection Location : Lalit Estate, Baner, Pune - 411045	Previous Inspection : NA
Inspection Performed from : 01st July 2024.	Next Inspection : As per Clients requirement

Building and Infrastructure Division
Site Inspection/ Audit Report



Building and Infrastructure Division

A. INSPECTION & FINDINGS					
Sr. No.	LOCATION	AUDIT FINDINGS / OBSERVATIONS	TYPE OF FINDINGS	IMAGE/ EVIDENCE	Status
1	Quality park	Approved materials for Electrical, Plumbing, and Fire Fighting elements are displayed in the Quality Park.	Good Observation		nfo
2	1 st Floor – Lobby	End Plungs are properly Provided	Good Observation		Info



Building and Infrastructure Division
Site Inspection/ Audit Report

3	1 st Floor – Lobby	Drainage support are properly provided and Installed	Good Observation		Info
4	Basement-Ramp	The fire pipes are rerouted under the beam because they are running in a sloped position, making it impossible to use sleeve.	Minor Observation		Open


Building and Infrastructure Division
Site Inspection/ Audit Report

4	5th Floor – Lobby	Electrical DB boxes are not protected during other works. Cement slurry are formed inside boxes.	Minor Observation		Open
5	5th Floor	Two coating of paint is completed in Fire pipes and properly installed.	Good Observation		Info

Building and Infrastructure Division
Site Inspection/ Audit Report

6	Gents Toilet	The 24-hour pressure testing observed in the gents' toilet started at 10.5 kg/cm ² and after 24 hours, the pressure reading was 12 kg/cm ² . The pressure reading should be equal to or less than the initial reading the next day.	Major Observation		Open
7	5 th Floor – Lobby	No protection provided in Back boxes during other works.	Minor Observation		Open

Building and Infrastructure Division
Site Inspection/ Audit Report

8	1 st Floor – Lobby	Plumbing works are properly installed as per the WMS.	Good Observation		Info
9	Over all Summary	1. Sample of the MEP works has been executed in the first-floor lobby only. 2. Fire fighting works are excuted properly sa per the WMS and in basement level few locations sleeves are not used to run pipes. 3. Electrical DB boxes and back boxes are not protected. 4. Pressure tssetting document needs to be update.			

B. INSPECTION / AUDIT RESULTS

☐ Satisfactory (Without Comments)
 ☒ Satisfactory with Comments (Any previous NC is Still Open)
 ☐ Not Satisfactory (NCR Raised during the inspection)

Inspection Summary: (For Details Refer Sec- A)

- 1) The quality inspection report, based on the site inspection conducted, has been appended in section A.
- 2) We have reviewed the Plumbing Material Inspection Report (MIR) and Material Test Reports.
- 3) During the site round, we have conducted inspections of quality work, material, working processes, EHS, etc.
- 4) We have communicated the Quality and Safety observation points to the site team.




☐

Open NC : ☒

Yes, details in Section H

NO

Building and Infrastructure Division
Site Inspection/ Audit Report

On behalf of Bureau Veritas BV Inspector: Mr. K. Ranganathan 	On behalf of Bureau Veritas BV Coordinator: Priyanka Patil  																																																
BV Office: Mumbai	Inspection Report Date: 16th July 2024																																																
Distribution: <input checked="" type="checkbox"/> CLIENT <input checked="" type="checkbox"/> BV <input type="checkbox"/> VENDOR	Attachments Report: <input type="checkbox"/> Yes, details in section J <input type="checkbox"/> NO																																																
C. REFERENCE DOCUMENTATION <input type="checkbox"/> Refer to attachment section J instead																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">TITLE</th> <th style="width: 20%;">REFERENCE</th> <th style="width: 10%;">REV</th> <th style="width: 20%;">APPROVAL STATUS</th> <th style="width: 20%;">APPROVED BY</th> <th style="width: 10%;">DATE (DD-MM-YYYY)</th> </tr> </thead> <tbody> <tr> <td>Inspection and Test Plan(Materials)</td> <td></td> <td>02</td> <td>Approved</td> <td></td> <td>29-03-2024</td> </tr> <tr> <td>Material Inspection Report</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fire pumps</td> <td></td> <td>00</td> <td>Approved</td> <td>Gaur Kumar Mohanty</td> <td>15-06-2024</td> </tr> <tr> <td>Pendant Sprinkler K-80,68° C</td> <td></td> <td>00</td> <td>Approved</td> <td>Gaur Kumar Mohanty</td> <td>13-06-2024</td> </tr> <tr> <td>Work Inspection Report</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Drainage (Ladies,Gents and Handicap toilet)</td> <td>R-738-PL-5-120A</td> <td></td> <td>Approved</td> <td>Gaur Kumar Mohanty</td> <td>18-04-2024</td> </tr> <tr> <td>Water supply (Ladies,Gents and Handicap toilet)</td> <td>R-738-PL-5-120A</td> <td></td> <td>Approved</td> <td>Gaur Kumar Mohanty</td> <td>19-04-2024</td> </tr> </tbody> </table>	TITLE	REFERENCE	REV	APPROVAL STATUS	APPROVED BY	DATE (DD-MM-YYYY)	Inspection and Test Plan(Materials)		02	Approved		29-03-2024	Material Inspection Report						Fire pumps		00	Approved	Gaur Kumar Mohanty	15-06-2024	Pendant Sprinkler K-80,68° C		00	Approved	Gaur Kumar Mohanty	13-06-2024	Work Inspection Report						Drainage (Ladies,Gents and Handicap toilet)	R-738-PL-5-120A		Approved	Gaur Kumar Mohanty	18-04-2024	Water supply (Ladies,Gents and Handicap toilet)	R-738-PL-5-120A		Approved	Gaur Kumar Mohanty	19-04-2024	
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Building and Infrastructure Division
Site Inspection/ Audit Report

Hydraulic Pressure test report for Sprinkler system (Podium-1)				Parvin Gadekar	08/01/2024
Hydraulic Pressure test report for Sprinkler system (Podium-3)				Parvin Gadekar	08/01/2024
Slan Conduit	R-738-FAPA-17-122A			Rajesh chaundkar	23/04/2024
Method Statement					
Method Statement – Fire protection system		00		Amit Sarawde	27/8/2023
Method Statement – Electrical System		00		Bhushan	07/06/2023
Method Statement – Plumbing		00		Arvind Hande	01/07/2024

D. ATTENDEES

ATTENDEES	DESIGNATION	REPRESENTING
Mr. Arvind Hande	Plumbing Head	Malpani Estate
Mr. Rajesh Chaundkor	Electrical Head	Malpani Estate
Mr. Gaur Kumar Mohanty	Site Engineer	Malpani Estate
Mr. Ranganathan.K	MEP Surveyor	BVIPL

Note – Whether all above Equipment/Instrument listed is checked for Suitability and condition and found acceptable? - Yes

E. INSPECTION /AUDIT DETAILS

Audit Scope:

1. Site Inspection & Quality Assurance limited to TPI Services in terms of reviewing Quality Assurance plans, various documents generated during construction, Surveillance inspection services at site and bought out items related to Civil work, MEP & Site development.

Building and Infrastructure Division
Site Inspection/ Audit Report

2. Consultant is to perform an independent external audit of the correct implementation and running of quality control system at Site. Also, Consultant shall review and approve the corrective methods submitted by the site team on Audit findings.
3. Consultant shall review the quality plan and discuss the rating system before start of Audit with the Client. Consultant shall discuss the Audit methodology, check list, report formats and Audit Plan with the Client prior to executing the Audit.
4. Consultant shall do the pre- delivery inspection of the final product and shall provide the report/snags.

F. HEALTH, SAFETY & ENVIRONMENT COMMENTS/OBSERVATION

1. Proper safety measures, such as using barricades, safety cones, and warning signs, have been implemented on the site during inspection activities to ensure the safety of the workers and visitors.
2. Workers at the site have used appropriate Personal Protective Equipment (PPE), including hard hats, safety glasses, gloves, and boots, to protect themselves from potential hazards and accidents.
3. Safe access has been provided for the audit to ensure that the auditors can safely and comfortably access all areas of the site without any risk of injury or damage to property.
4. The site has sufficient lighting, including artificial lighting and natural light sources, to ensure proper illumination of all areas of the site, including workspaces, pathways, and storage areas, to prevent accidents and improve visibility.
5. Health, Safety, and Environment (HSE) training is conducted regularly to educate workers on safety measures, emergency response procedures, and environmental awareness, to promote a culture of safety and compliance in the workplace.
6. Toolbox Talk (TBT) training is conducted regularly to educate workers on specific safety topics, including hazard identification, safe work practices, and incident reporting, to improve safety awareness and prevent accidents in the workplace.



Building and Infrastructure Division
Site Inspection/ Audit Report

G. NON CONFORMITIES USED <input type="checkbox"/> Refer to attachment section J instead <i>(Indicate if separate document list is provided in attachment)</i>							
NC No.	Description	Status Raised On	Raised on	Report no.	Closed on	Report No.	Comments
1	NA						
H. (Earlier + Current) Report Pending Punch points (Carry forward all open points from earlier visit) <input type="checkbox"/> Refer to attachment section J instead							
Sr. No.	Description				Report no & Date		Status (Open /Close)
1	NA				NA		
I. ATTACHMENTS:							
Sr. No.	Attachment Name		Total Pages		Description		

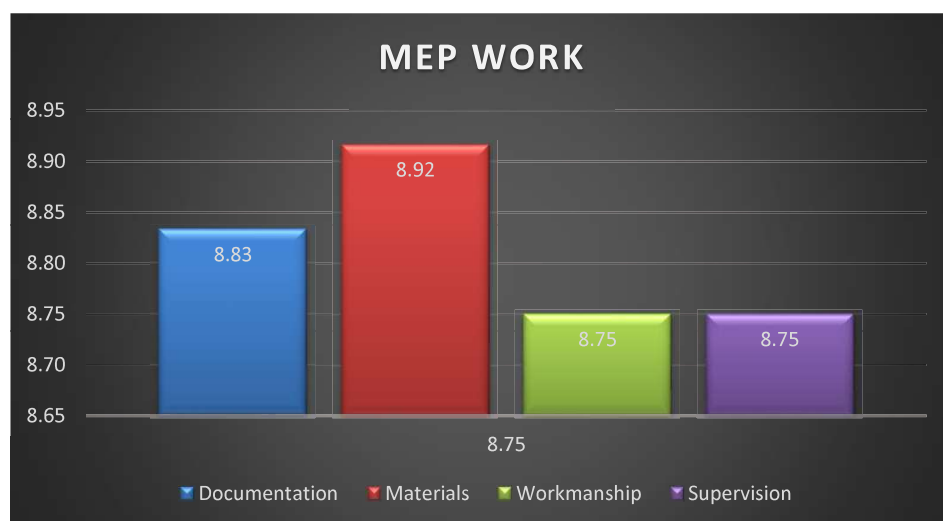
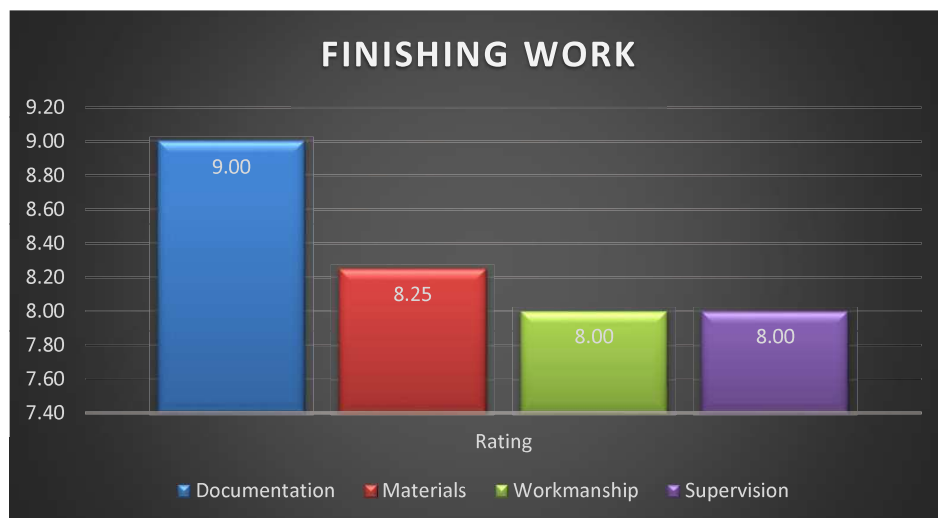
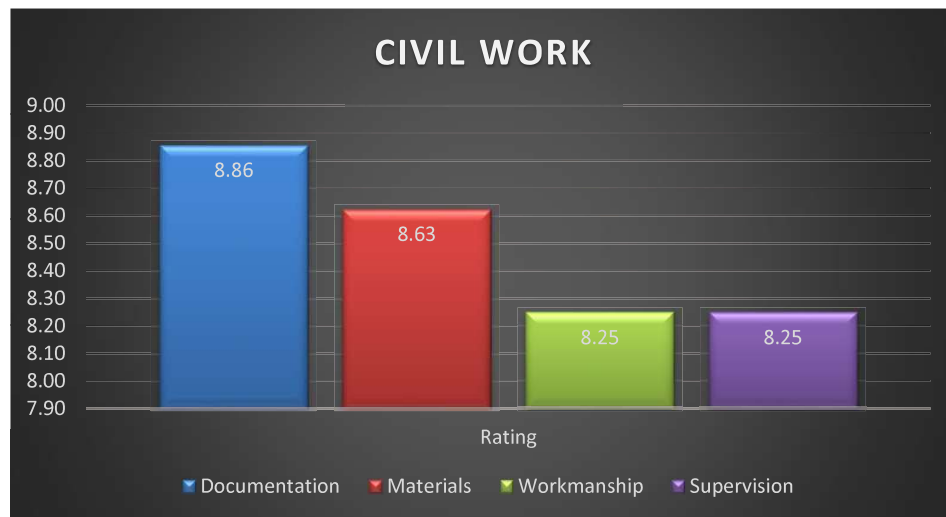


Project Quality Rating (Civil)				
Project Name: M FALCON				
Parameters	Weightage in %	Rating in%	Rating	Overall Rating
Documentation	10	8.86	8.86	8.50
Materials	10	8.63	8.63	
Workmanship	40	33.00	8.25	
Supervision	40	33.00	8.25	

Project Quality Rating (Finishing)				
Project Name: M FALCON				
Parameters	Weightage in %	Rating in%	Rating	Overall Rating
Documentation	10	9.00	9.00	8.31
Materials	10	8.25	8.25	
Workmanship	40	32.00	8.00	
Supervision	40	32.00	8.00	

Project Quality Rating (MEP)				
Project Name: M FALCON				
Parameters	Weightage in %	Rating in%	Rating	Overall Rating
Documentation	10	8.83	8.83	8.81
Materials	10	8.92	8.92	
Workmanship	40	35.00	8.75	
Supervision	40	35.00	8.75	

Overall Rating = 8.54



Project: M FALCON

Score Sheet

ACTIVITY		Description (Activities to be measured)"	Weightage in %	Sum of (A)	Score in 10	Weighted score	Av. Score in 10 (SUM C/SUM A)		
			(A)		(B)	C=AxB			
General Checks/ Conditions (Process)	QUALITY CONTROL LAB, SURVEY EQP. & ANY OTHER SITE EQUIPMENT	Condition of Testing Equipments	25	100	0	0	0.00	0	S
		Quality Control Systems/Procedures	25		8.5	212.5	8.50	1	D
		Calibration certificates with updated status of Lab & Survey Equipments	25		9	225	9.00	1	D
		Registers and records	25		9	225	9.00	1	D
Batching Plant RMC	Documents	Mix Design, Pouring sequence, Pre & Post Pour, Cube casting, Testing & Standard Deviation, Calibration of Plants as per frequency	10	100		0	0.00	0	D
	Materials		10			0.000	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S
Reinforcement	Documents	lap/bend/extra bars,Cutting length, Bar bending, Bar bending scheldule (BBSA), quality of work , shuttering oil, cover block & material condition.	10	100	9	90		1	D
	Materials		10		8.5	85	8.50	1	M
	Workmanship		40		8	320.00000	8.00	1	W
	Supervision		40		8	320	8.00	1	S
Formwork	Documents	Checking line and level, Formwork, Pouring Curing	10	100	9	90	9.00	1	D
	Materials		10		8	80	8.00	1	M
	Workmanship		40		8.0	320	8.00	1	W
	Supervision		40		8.0	320	8.00	1	S
Concrete	Documents	Mix Design, Pouring sequence, Pre & Post Pour, Curing, Alignment, Honeycombing, bulgeing, temp./slump & cutouts.	10	100	9	90	9.00	1	D
	Materials		10		9	90	9.00	1	M
	Workmanship		40		8.5	340	8.50	1	W
	Supervision		40		8.5	340	8.50	1	S
Waterproofing	Documents	Raw material, Leekage Test , Application,cleaning & leak test	10	100	8.5	85	8.50	1	D
	Materials		10		9	90	9.00	1	M
	Workmanship		40		8.5	340	8.50	1	W
	Supervision		40		8.5	340	8.50	1	S
mivan shuttering	Documents		10	100		0	0.00	0	D
	Materials		10			0	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S
	Documents		10	100		0	0.00	0	D
	Materials		10			0	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S
	Documents		10	100		0	0.00	0	D
	Materials		10			0	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S
	Documents		10	100		0	0.00	0	D
	Materials		10			0	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S
	Documents		10	100		0	0.00	0	D
	Materials		10			0	0.00	0	M
	Workmanship		40			0	0.00	0	W
	Supervision		40			0	0.00	0	S

Note : In the above table (only cells having red digit are to be filled by the inspector) and number 1 is to entered in column J.

In the case of more activities either additional rows can be inserted in the above table (without disturbing the formula) or additional activity can replace any other activity which is not applicable.

		Score	Count	Ratings	Out of 100	% for Bucket
10	Documents	62.00	7.00	8.86	88.57	8.86
10	Materials	34.50	4.00	8.63	86.25	8.63
40	Workmanship	33.00	4.00	8.25	82.50	33.00
40	Supervision	33.00	4.00	8.25	82.50	33.00

8.50

Score Sheet for Finishes							
Project: M FALCON							
ACTIVITY		Description (Activities to be measured)"	Weightage in %	Sum of (A)	Score in 10	Weighted score	Av. Score in 10 (SUM C/SUM A)
			(A)		(B)	C=AxB	
POP / GYPSUM	Documents	Material, Surface preparation, Sharpness of joints & Corners alignment.	10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
PLASTERING	Documents	Mortar Preparation, Thickness, fixing of mesh, curing, mortar cube, staging	10	100	9	90	9.00
	Materials		10		8.5	85	8.50
	Workmanship		40		8.5	340	8.50
	Supervision		40		8.5	340	8.50
Blockwork	Documents	Handling of block, Mixing/Preparation of Cement Mortar, Soaking of blocks, Layout, Pointing, Staging & Scaffolding, Joints/mortar thickness, Line and Level of Work, Curing, Hacking, Final	10	100	9	90	9.00
	Materials		10		8	80	8.00
	Workmanship		40		7.5	300	7.50
	Supervision		40		7.5	300	7.50
External Painting	Documents	Stage Passing, Surface preparation, Painting Material, Pattern, Final Finish	10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
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	Workmanship		40			0	0.00
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	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
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	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10	100		0	0.00
	Materials		10			0	0.00
	Workmanship		40			0	0.00
	Supervision		40			0	0.00
	Documents		10				

Score Sheet for MEP

Project: M FALCON

ACTIVITY		Description (Activities to be measured)"	Weightage in %	Sum of (A)	Score in 10	Weighted score	Av. Score in 10 (SUM C/SUM A)		
			(A)		(B)	C=AxB			
Conduits	Documents	Material, Dimension, Proper Conduit Routing, Blockages, Ease of Cable pulling, Drawings	10	100	9	90	9.00	1	D M W S
	Materials		10		9	90	9.00	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	
D.B Installation	Documents	Material, Dimension, Proper wiring, DB Thickness, Termination etc.	10	100	9	90	9.00	1	D M W S
	Materials		10		8.5	85	8.50	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	
PLUMBING (PIPING)	Documents	UPVC& CPVC, CI, HDPE/ PVC, Sewerage earther, Material, Alignment, Type of Joints, cutout filling, Fixing.	10	100	8	80	8.00	1	D M W S
	Materials		10		9	90	9.00	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	
PLUMBING (TESTING)	Documents	Leak Test, Pressure test, Smoke test, Joint Quality.	10	100	9	90	9.00	1	D M W S
	Materials		10		9	90	9.00	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	
Drainage Piping	Documents	UPVC& CPVC, CI, HDPE/ PVC, Sewerage earther, Material, Alignment, Type of Joints, cutout filling, Fixing.	10	100	9	90	9.00	1	D M W S
	Materials		10		9	90	9.00	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	
Fire Fighting	Documents	Material, Makes, Drawings, Approvals, Fire fighting shafts, hydrants and hose reels	10	100	9	90	9.00	1	D M W S
	Materials		10		9	90	9.00	1	
	Workmanship		40		8.75	350	8.75	1	
	Supervision		40		8.75	350	8.75	1	

Note : In the above table (only cells having red digit are to be filled by the inspector) and number 1 is to entered in column J.

In the case of more activities either additional rows can be inserted in the above table (without disturbing the formula) or additional activity can repaace any other activity which is not applicable.

		Score	Count	Ratings	Out of 100	% for Bucket
10	Documents	53.00	6.00	8.83	88.33	8.83
10	Materials	53.50	6.00	8.92	89.17	8.92
40	Workmanship	52.50	6.00	8.75	87.50	35.00
40	Supervision	52.50	6.00	8.75	87.50	35.00

8.81