

Completion Inspection Checklist – Industrial

(Warehouses, Manufacturing, Petrochemical, etc.)

Submission Ref:				Inspection Date:	
Project / Land Information					
Area Name				Plot No.	
Business Unit				Project ID	
Project / Building Detail					
<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Other:			

General Remark		Yes	No	Remarks
1	Presence of accredited Consultant			
2	Presence of accredited Contractor			
3	Trakhees Approved Drawings			
4	Building Permit			
5	DCD NOC available			

Architectural (The below are as per the approved drawings)		Yes	No	Remarks
1	Paved Access to the plot			
2	Fence/Compound Wall in the front side of plot and its height			
3	Plot boundary fencing completion			
4	Retaining Wall construction type (RCC or Solid Block)			
5	Gate level in relation to the approved Temporary Bench Mark			
6	Setback dimension.			
7	Run off slab width			

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	Architectural (The below are as per the approved drawings)	Yes	No	Remarks
8	Paving Works – check for fold line and settlement			
9	Water Tank and Pump House Location			
10	External works – check for the wall heights, cladding detail and landscaping			
11	Elevations – all building and warehouse sides			
12	Cat Ladder – check for safety hoops and provision of hand rail at roof top			
13	Loading / Unloading Bay (fenders, sump, handrail etc.)			
14	Finished Floor Level – in relation to approved Temporary Bench Mark			
15	Floor Plan – check the layout details and level			
16	Mezzanine Floor Layout			
17	Staircase (width, riser, go and head room)			
18	Skirting, wall and floor tiles grouting and sealants			
19	Total height/ number for floor			

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	Architectural (The below are as per the approved drawings)	Yes	No	Remarks
20	Parapet & Balconies balustrade height to be min* 1.1m			
21	Gas Station Max* height of the sales outlet and its annexes 4.2 m			
22	Warehouse & Factory Min *clear height 4 m & Max* 9 m			
23	Garbage room Min * height of the garbage room shall be 2.4 m			
24	Topographical plan & sections showing the levels of the land within and surrounding of property lines			
25	Landscape plans & sections indicating hard and soft landscape elements with dimensions			
26	Details baths, ramps ,staircases, lifts, garbage chute & garbage rooms to be as per approved drawing			
27	Car parking and Car shed to be as per approved drawing			
28	Crane (number and capacity) and machines installation , location to be as per approved drawing			

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	Safety Section	Yes	No	Remarks
1	Floor Plan – check the layout details and level			
2	Mezzanine Floor Layout			
3	Staircase (width, riser, go and head room)			
4	Skirting, wall and floor tiles grouting and sealants			
5	Separate entry and exit provided for light and heavy vehicles			
6	All materials stored in the setback area (5.5 Mts. from fence line) be removed and clear path maintained all around the plot			
7	Fire escape routes kept clear and maintained			
8	Loading Area – demarcation for trailer parking on the loading/unloading bay and the rubber stoppers / fenders at the edge of the loading/unloading platform provided to avoid damages to the platform			
9	All the obstructions removed and cleared from the access and walkways?			

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	Safety Section	Yes	No	Remarks
10	Adequate signage & lighting provided in all access/ exit / walkways etc.			
11	Adequate natural lighting provided via skylights			
12	Appropriate/adequate handrails / walls provided in all areas where persons can fall down?			
13	Parapet wall height / handrails are maintaining a safe height? (as per the standards)			
14	Toe guards provided on all the leading edges wherever there is chance of falling materials			
15	Are all the railings fitted rigidly and able to withstand the load			
16	Is Drainage being connected as per approved procedures?			
17	All the relevant drawings for the drainage available on site during the time of inspection.			
18	FIC depth as per regulations and constructed inside the plot limit			

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	Safety Section	Yes	No	Remarks
19	FIC cover-ductile iron with 6 mm thick GRP push fit sealing plate?			
20	Are all underground piping as per BS 4660?			
21	All internal piping is PVC to BS 4514& waste pipe is BS 5255			
22	Man hole covers as per BS standards i.e. BS EN. 124:1994			
23	Drainage system Holding tank – Level indicators with warning light/buzzer provided			
24	Drainage – Provision for future connection with the sewage system and breaching pipes with standard coupling and cover provided within the plot limit.			
25	Sewage holding tank fitted with early warning alarm system with beacon light and buzzer and provided with Breaching pipe for pumping out			

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	Safety Section	Yes	No	Remarks
26	Maximum distance between the inspection chambers of 30 meters maintained			
27	All AC drains connected to either drainage system or provided with a local soak away.			
28	Are all trips and slip hazards eliminated inside the facility			
29	Battery charging area provided with 8-10 ACH ventilation and all storages should be at least 5 meters away from the charging area which is be marked on the floor.			
30	Are All electrical fittings and appliances intrinsic/spark proof in battery charging area			
31	Safety Section			
32	Is the floor finish is acid proof.			
33	Ventilation installation as per the approved drawings, all fans are installed as shown on the approved drawings?			

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	Safety Section	Yes	No	Remarks
34	Is Exhaust Ventilation installed in the dining rooms/ toilets etc. as per ASHRAE Standards			
35	Outlet of the extraction/filtration system provided and raised 3 meters above the roof ridge and vented straight upwards.			
36	All rungs cleats, strings and landings of the ladder constructed as per the standards			
37	Maximum distance between the inspection chambers of 30 meters maintained			
38	All cat ladders with a height of more than 3 meters provided with safety cage			
39	Intermediate platform provided for the ladders at an interval of 8 meters height			
40	Crash guards provided to service units on car parking/ Drive ways			

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	Safety Section	Yes	No	Remarks
41	All sharp edges in an around the facility are cut off/ round off			
42	Dining Hall is provided with glazed ceramic tiles on walls up to a height of 2.1 Mts. (Minimum), while non-slippery tiles provided on the floor.			
43	Adequate workers facility i.e. changing room/ locker room provided			
44	Garbage Skip Area – is provided with impermeable flooring and curb stones on all three sides. Is the vehicle moving area compacted or hard paved.			
45	Rubber fenders and dock levellers provided for the loading uploading platform.			
46	Bund wall with 110% capacity provided for the diesel storage tank			
47	Are All cables run through covered trenches or elevated cable trays/conduit?			

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	Safety Section	Yes	No	Remarks
48	Are all safe distance for racking maintained (i.e. wall to rack, rack to rack, horizontal clearance etc.			
49	Racking are installed as per the approved drawings			
50	Rack/shelves are labelled accordingly for material specification & safe uniformly distributed load			
51	Are All columns inside the warehouse (fork-lift operating areas) provided with protection bollards and painted with 150-mm wide red and white or yellow and black strips.			
52	Kick plates installed at the edge of the elevated racking floor.			
53	Guardrail provided to close any openings through which a person may fall. Where guardrails are omitted for pallet drops, safety gates, removable guardrail sections or removable chains is provided for fall protection			
54	Stoppers provided to cranes			

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	Safety Section	Yes	No	Remarks
55	Load Test certificate from DAC approved third party for the lifting apparatus and lifting gears available			
56	SWL clearly marked on all the cranes/ Lifting apparatus			
57	Safe access, Walkway with side railing provided to the EOT cranes for maintenance purpose			
58	RA & EIA study approval and compliance statement available and submitted as advise during drawing review stage			
59	Are all the works done as per the approved RA study on the chemical storage areas			
60	Bund wall/ secondary containment provided to all chemical storage tanks			
61	Provision for storage of hazardous solid waste (empty paint tin) provided and clearly separated from general garbage.			
62	Eye wash station provided near by			

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	Safety Section	Yes	No	Remarks
63	Separate ventilation provided to chemical storage area, paint booth area etc.			
64	All pipe lines marked and colour coded			
65	Safety Section			
66	Hydro test certification from the approved Third party obtained			
67	Are All electrical machine/equipment/lighting/fixtures etc. in the painting booth/building are flame proof/ignition proof type.			
68	Machinery lay out approved from Trakhees and installed as per the drawings			
69	All conveyor belts are fully covered / enclosed to prevent dust generation/emission.			
70	All rotating/moving/dangerous parts of machinery/ equipment are fitted with proper safe guards			
71	Proper sampling point & access ladder provided on chimney for emission quality checks			

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	Safety Section	Yes	No	Remarks
72	Paint / blast booth/building fitted with proper extraction/filtrations system			
73	Proper paint storage room for storing paints, thinner and solvent etc. Provided			
74	Separate Spillage/drainage collection provided. For industrial waste			
75	Paint/blast booth/building fitted with an emergency stop switch in inside area and when operated in case of emergency shall trigger an audio-visual alarm.			
76	Concrete wheel stop or a 15.24 high concrete curb provided on the car parks near all the structures			
77	Minimum horizontal distance of 0.5 meter form walls / structure / emergency access and minimum 1 meter in between the machinery maintained inside the warehouse			

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	Safety Section	Yes	No	Remarks
78	Proper holding tank with liquid tight liner (2mm HDPE liner) of suitable capacity (minimum 3 days capacity) provided for collection/storage of any industrial wastewater generated from the operations.			
79	Sensor provided on EOT cranes to avoid accidental collision			
80	Are all Boiler design & installations meeting ASME boiler & pressure vessel codes			
81	Safety devices as well as pressure gauges and water level meter is located at a height of not more than 1.5 m from the ground level.			
82	Are Boilers installed at a safe distance from production or other working areas and to be protected (at least 3 meters)			
83	Proper drainage facility provided for the boiler condensate and blow down away from the domestic drainage of the facility.			

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	Safety Section	Yes	No	Remarks
84	Proper sampling point & access ladder provided on chimney for emission quality checks			
85	Are boilers certified by accredited third party (in case of new boiler, manufacturer's certificate is acceptable) every year. The test & certification covering the entire boiler's safety devices, gauges, internal and external conditions etc.			
86	Business unit NOC available			
87	Holding tank with liquid tight liner (preferably 2mm HDPE liner) of suitable capacity (minimum 3 days capacity) provided for the collection/storage of any industrial wastewater generated from the operations			

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