TRAFFIC MANAGEMENT PLAN

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1. INTRODUCTION

This Logistic and Traffic Management Plan is part of Contractor’s EHS Management System. This plan focuses on Logistic and Transportation for personnel, materials and including construction debris disposal, access routes, pedestrian cross points, materials storage areas at project for office and welfare facilities works, main construction works, pre-commissioning, commissioning and hand over of the Project. This plan shall be revived and approved by Client/Consultant and to be updated regularly to reflect the developments and changes, the revision shall be approved by the aforesaid authorities.

2. PURPOSE

The purpose of this Logistic and Traffic Management Plan is to provide guidance to identify the access routes, pedestrian cross points, materials storage areas and how movement of vehicles/equipments are adequately controlled and properly managed for personnel, materials including construction debris disposal to avoid breach of regulations, fines and to prevent incident/accident. This Plan identifies the systems/activities in accordance with CLIENT/CONSULTANT requirements in line with Trakhees Construction Safety Guideline No:29 which is to be implemented at project to meet the Legal requirements and contractual conditions.

3. SCOPE

This plan applies to Project, Proposed building B+G+4, on plot no IC3-H-36 & 37. International city 2 & 3 Toto identify the access routes, pedestrian cross points, materials storage and movement of vehicles/equipments within project premise and on public roads. Subcontractors are required to follow the plan after Client/Consultant approval.

4. DEFINITION

4.1 CLIENT/EMPLOYER: M/s

4.2 CONSULTANT:

4.3 CONTRACTOR: MegaTec Repair Pilling Foundation Co LLC

4.4 SUBCONTRACTOR:

Client/Consultant approved Third-party service provider/vender who has assigned for successful execution of project refers as subcontractor.

4.5 PROJECT: Proposed B+G+4 Building, on plot no IC-3-36 & 37, International City, 2 & 3

4.6 HEAVY EQUIPMENT

Refers to heavy-duty vehicles specially designed for executing construction tasks, most frequently involving earthwork operations and involving construction work activities. They are also known as, construction equipment, plant, earth movers, vehicles, or equipment.

4.7 OPERATOR

Drives and operates of construction equipment/crane used in construction projects.

4.8 DEFENSIVE DRIVING

It is a form of training for vehicle drivers that goes beyond mastery of the rules of the road and the basic mechanics of driving. The aim is to improve competency to control the risk of driving by anticipating dangerous situations, despite adverse conditions or the mistakes of others.
4.9 **FATIGUE**

A condition characterized by a lessened capacity for work and reduced efficiency of accomplishment, usually accompanied by a feeling of weariness and tiredness. Example: difficulty in focusing eyes, yawning, is drifting out of lane, dropping head etc.

4.10 **LOG**

A record book detailing information of all trips to be undertaken including the driver’s name, journey date, starting and ending odometer readings, and purpose of the journey including materials details.

4.11 **EXTENDED WORK HOURS**

The day time work that incorporates more continuous hours or requires work during the evening should be considered extended or unusual. Extended work may be used to maximize scarce resources.

5.0 **PROJECT LOGISTICS MANAGEMENT**

Proposed building B+G+4, on plot no IC3-H-36 & 37. International city 2 & 3 Logistics team will report directly to the Construction Manager. It will be their responsibility to:

- Mark the site layout and provide site boundaries
- Plan and implement site access aggress routs
- Provide temporary fencing and security check point
- Coordinate with the arrangements of site temporary facilities and welfare facilities/ Sewage drainage lines/temporary water supply layout etc.
- Supervise the following, Traffic Marshalls, cleaning gangs,
- Plan pedestrian routes throughout the project and safe transportation of personnel to and from the site
- Plan the effective use of traffic management plan.
- Plan all rubbish removal operations.
- Oversee the delivery co-ordination and storage plans for all materials supplied our Sub – contractor's suppliers (Include Hire Equipment's)
- Plan the effective use of traffic management plan
- Plan pedestrian routes throughout the project and safe transportation of personnel to and from the site
- Update the plan with respect of the changes as the project progresses

5.1 **CONSTRUCTION MATERIALS**

Megatec Dubai. will provide designated storage areas for store construction materials, all offloading works should carry out with the proactive monitoring of store keeper, will provide site traffic regulations to supply driver while entering to site. Vehicle will park on designated area only.

5.2 **Onsite material storage**

Designated material storage will be providing for store all kind of materials e.g.: Wood, Steel, Bricks, Cements, Project required and approved materials only store in onsite storage area. The Construction Manager and site Facility supervisor will liaise closely with relevant departments to ensure long lead items are brought to the site at the correct time and not stored on site, which makes them vulnerable to damage or being constantly relocated. Material storage plans will be produced and agreed with all contractors. The construction manager will sign any delivery requests to ensure the correct amount of material is brought to the site and the correct time.
Designated storage area only used for store all kind of materials, will not keep any materials/waste storage will be granted outside of the approved storage areas and no materials shall be stored on access roads or pedestrian routes or outside the project boundary. The material storage room will be provided with the emergency exit to handle the emergency scenarios efficiently. Provide adequate fire fighting facility also will provide near material storage area as per TRAKHEES EHS regulation

Megatec Co, Dubai. will install adequate storage (for flammable liquids like Diesel and Paints) facility for this project. Provide bund wall and drip trays for diesel storage area also will comply with the local environmental guidelines set out by the regulatory body. Venco Imtiaz cont. Co, Dubai. will also follow all guidelines issued regarding the storage of hazardous materials and limit the quantities of such items stored on site. Hazardous materials can only be stored in this designated area.

Provide adequate Storage areas for Chemicals and Gas (Oxy-Acetylene, LPG) will full fill the legal requirements storage such kind materials

5.3 Offsite material storage

Megatec Co, Dubai. Cont. will encourage all sub-contractors and suppliers to use offsite storage facilities. VICC have Own Material Yards will store long term required materials.

5.4 Material Handling

All materials shall be packed in a suitable manner so as material handling on site Can be moved using the plant on site. Contractors and suppliers shall be instructed to palletise all items.

Materials must be handled in a safe manner, stacking of pallets can only be 2m high and on level ground. Block pallets must be fully banded before moving. Pallets must not be overloaded. Access empty pallets are to be removed from site immediately.

5.5 Over Loads/ Load materials in dangers condition

Loads should carried in accordance with the appropriate local Regulations and any necessary signs etc., are to be in accordance with any statutory requirements. The appropriate documents shall be available in the cab.

Loads on vehicles shall be adequately secured and the vehicle not overloaded.

5.6 Pre Planning for Safe Martials Shifting/Transportation

Due the constraints of this project with regards to surrounding roads, construction traffic will be kept to a minimum. There will be no scheduled deliveries of heavy plant and large Lorries during this time, Transport companies will be advised that No Heavy Goods Vehicles will be allowed to lay up in the parking outside the site entrance/road

TRAFFIC MANAGEMENT

Venco Imtiaz cont. Co, wills responsible to control of all movement of authorized Vehicles inside the Project. All drivers should be competent also required valued UAE driving licence, Visitors and other drivers should be report to site security, the security in charge should be note all visitors and other drivers entry and exit time with their car plate number.do not allowed rash driving on site always maintain speed limit inside the site. VICC will provide adequate safety sign boards regard the same subject. Every heavy equipment’s required trained flagman/Signal man while traveling on road

1.0 Pedestrian Access

Pedestrian Access will be in place on all internal roads (where ever it is possible as already the infrastructure roads are completed) that produce a risk to both parties. Hard barricaded area
with adequate safety sign boards will be placed in pedestrian access area, will take stringent disciplinary action against violators

Designated road crossing area will be marked properly, all drivers will provide priority for road crossing area. Crossing points will be located and signage installed. No vehicles will not be allowed to park in unauthorised areas. Suitable signs will be erected to warn road users and pedestrians about sit

2.0 RESPONSIBILITIES

2.1 CONSTRUCTION MANAGER
Coordination with HSE Manager to Develop site Logistic and Traffic Management Plan in line with Trakhees & Clients requirements and implement at project.

2.2 The HSE Manager to develop and implement Risk Assessments for all logistic operation, vehicle and equipment movement on site including access route for vehicle arrival, departure, loading, unloading, and material storage to enable identify and implement proactive preventive control measures.

2.3 Make arrangements to ensure the HSE Manager is kept fully informed of any new activities or change of activities that could affect the safety of traffic and pedestrians on site.

2.4 Ensure Subcontractors, Visitors and all involved persons are made aware of the plan, arrangements for vehicle and equipment movements that they submit for approval, details of their working activities that could necessitate any modifications/diversions to vehicle routes.

2.5 Ensure that traffic surveys are performed in order to establish peak travel times, restrictions etc. caused by other traffic.

3.0 HSE Manager / Engineer

3.1 Coordination with Construction Managers for the development and implementation and improvement of “Logistic and Transportation Management Plans” to control the traffic on Project.

3.2 Organize Hazard Identification and Risk Assessment in coordination with construction management for all vehicle & equipment movement including the materials management. Ensure development, effective implementation and reliability of Risk Assessments for all vehicle & equipment movement and operation control.

3.3 Monitor the safe movement of vehicles, equipment operation and ensure timely maintenance of vehicle and equipments on the Project.

3.4 Ensure all subcontractors are also provided the competency training for their vehicle drivers/operators. Ensure their UAE licence validity and they are certified to drive / or operate such vehicles or equipment.

3.5 Make arrangements for other Subcontractors to be timely informed of changes of vehicle routes, speed limits and other traffic control measures inline with Tarkhees and Client requirement.

3.6 Arrange security control as required to assist in transport activities and arrange for security personnel to inform all vehicle drivers entering the site details of authorised vehicle routes, restrictions, speed limits and any other potential hazards.

4.0 Supervisors

4.1 Ensure drivers receive sufficient instruction and training enables them to understand the regulation mentioned in the plan apart from UAE Traffic regulations.

4.2 Ensure adequate vehicle inspection and maintenance programs are in place and performing as per schedule.

4.3 Ensure prior to each journey the relevant inspection is done as per ‘Checklist’ signed by both supervisor and driver also to ensure the permit / consent for material transfer is completed prior to the movement.
5.0 Drivers

5.1 All drivers are required to have a valid U.A.E. driving licence and obey the U.A.E. Traffic regulations, Trakhees and Client’s regulations.

5.2 Responsible for adhering to the requirements of this plan, CLIENT/CONSULTANT traffic regulations, Project road safety policy and ensure all such necessary actions are in place for the safety of the vehicle/equipment, materials, passengers and third parties.

5.3 Vehicle should have on board all items of “Survival Checklist” and kit.

5.4 Drivers should check their vehicle or equipment and sign the checklist prior to start.

5.5 Notify the immediately for supervision of any difficulties or problems encountered during the daily inspection and en-route.

5.6 Never give a lift to unauthorized persons.

5.7 Check the load constantly and properly secured in safe manner as per Trakhees guideline.

5.8 All permanent drivers/operators on the project shall be issued gate pass after safety induction

5.9 Visitors/Temporary drivers/operators will be issued with visitor’s passes, and logged in and out. Applications for visitors’ passes are to be made via CLIENT/CONSULTANT/CONTRACTOR/Subcontractor management from an approved signature list 24 hours in advance.

6.0 Reversing of Vehicles

Provide Reverse parking method onsite parking area. Vehicles shall not be allowed to reverse on sites unless under the guidance of a Competent Traffic Signal man / banks man. All reversing near to any public access shall also be under the guidance of a Traffic Marshall / banks man at all times. Reverse alarm should be fixed in every heavy equipment’s include trucks. Provide designated parking area for workers bus, provide safety signage regarding the same subject, will provide pickup and drop point for all buses, provide serial numbers to all buses, each buses should be park their own parking area.

7.0 Site Roads

Maintain speed limits and it’s should be posted in site, provide humps for avoid rash drive

Provide safety sign boards regarding road safety. (See the figure)

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8.0 Unauthorized riding/Operation on Machines

No person other than the driver may ride on dumpers, tractors or other power-driven vehicles except where seating is specially provided for the carriage of passengers. Will take stringent disciplinary action against violator.
Persons working on or near vehicles shall be safeguarded during loading and unloading operations. Drivers of vehicles that are not provided with safety cabs, dumpers etc. shall not remain on the vehicle during machine loading operations

“Never give a lift to unauthorized persons”

9.0 DUTE OF DRIVERS

The Foreman/Supervisor shall ensure that drivers on site are made aware of their duties, all drivers are to be at least 18 years of age and hold a valid UAE driving license for the type of vehicle/equipment they are in control of

- Safe Drive during Night
- Safe Drive during Rain
- Safe Drive during Dust Storm
- Safe Drive during Fog
- Safe Drive General Requirements
- Safe Drive on Off-Road Areas

The main duties of drivers are:-

- Drivers shall report any defects immediately to their manager and Foreman/Supervisor. This applies also to any accident or damage, however minor. Vehicles shall be regularly inspected for defects etc., by the driver and this shall be recorded in relevant register.
- Drivers shall wear suitable safety footwear, safety headwear and protective clothing appropriate to the site conditions. Drivers shall use all safety provisions provided i.e. seatbelts, roll over protection systems, audio / visual warning systems etc.
- Where vehicles need to pass open edges or tip into excavations etc., suitable secure stop blocks will be provided.
- Dumping Trucks should not be left with the tipping body raised and suitable props should be used whenever men need to work under the raised body
- Vehicle keys shall not be left unattended at any time and vehicles must be made secure when not in use. Vehicles shall never be left unattended with the engine running.

9.1 Drivers/Operators Capabilities

CONTRACTOR/Subcontractors shall only utilize individuals who are licensed, qualified, responsible, capable, willing and able to fulfil this role. Drivers/Operators must be aware of and comply with all applicable plan established by the CONTRACTOR including but not limited to the following:

9.2 Valid U.A.E. driving license for the class of vehicle he is driving. It is the duty of the driver/operator to ensure that his license is duly valid.

9.3 Prior to deployment of driver / operator at the Project ensure Defensive Driving Course (DDC) and medical check-up. Only medically & physically fit respect of eyesight and blood pressure only fit person shall be deployed at site.

9.4 Operators are allowed to operate the equipment after successful completion of competency training as per Client / Trakhees regulations.

10.0 Training

10.1 It is the responsibility of Contractor and Subcontractors’ to ensure that any driver/operator employed is provided training prior to their assignment.

10.2 All drivers / operators must attend an induction course before being allowed to operate or drive vehicle/equipment at site.

10.3 Contractor and Subcontractors shall keep records of all drivers training the copy shall be made available at site for CLIENT/CONSULTANT verification.

11.0 Drug and Alcohol Policy
11.1 Subcontractors shall ensure all his employees adhere to the CONTRACTOR Drug and Alcohol Policy.

11.2 All drivers shall be required to submit a drug and alcohol test in the event of a road traffic accident, regardless of fault.

12.0 Incident Reporting

12.1 All vehicle incidents/accident shall be reported immediately to CONTRACTOR HSE Manager. CONTRACTOR HSE Manager shall immediately notify to CLIENT/CONSULTANT and other authorities as per regulation.

12.2 All road incident/accidents shall be investigated and reported by project management in line with Trakhees regulation.

13.0 Health & Safety

13.1 Driver must take reasonable care for the health and safety of himself and others who may be affected by his acts or omissions.

13.2 Driver must not interfere or misuse intentionally or recklessly any item of equipment/vehicle which are provided for the interests safety.

13.3 Before starting the engine to leave for journey drivers and operators shall check under the vehicle for people who may be resting.

14.0 Road Safety Rules

14.1 Seat belts shall be provided for all passengers of vehicle including driver.

14.2 When reversing, assistance must be sought from a banksman to give clear and distinct signals.

14.3 Vehicles must always be operated in accordance with all national and local traffic regulations in addition to others imposed by the project.

14.4 Automatic reverse alarms must be installed on all vehicle & heavy equipment.

15.0 Speed limit

15.1.1 The maximum speed limit on Work Site is 20 km/h. However, drivers shall reduce their speed to suit the prevailing site road condition, impetuous of activities and weather conditions.

15.2 Unless parked in the designated parking area all vehicles shall be left with the keys in the ignition when on the construction site.

16.0 Personal Protective Equipment

All drivers and operators shall wear the proper PPEs when disembarking from the vehicle or equipment while they are in the Site.

17.0 Smoking, Naked Lights etc.

17.1 Refuelling tanker drivers must not carry matches or lighters while on duty/performing their work.

17.2 Smoking inside the cabin of the vehicle/equipment is not allowed

18 Refuelling

18.1 Engines shall be switched off during refuelling.

18.2 No naked light, open fire, electric heater etc. is allowed near vehicle while refuelling.

18.3 The use of mobile phone is prohibited during refuelling.

18.4 Loading and unloading of highly flammable liquids (e.g. gasoline) should not take place during a thunderstorm.
18.5 While loading fuel browser unto the loading line, browser must be connected to an earthing point to prevent build up of static electricity.

19 Emergency Procedures

19.1 In the event of an emergency (e.g. traffic incident/accident), after turning off the engine and rendering the vehicle safely placing warning triangle, driver shall inform the emergency services including police while giving assistance to person who is in immediate danger or has suffered an injury.

19.2 All vehicles shall carry with them emergency contact numbers of the project including Police and hospitals.

19.3 Project Manager or HSE Manager must be informed immediately about the incident, who will then notify to the CLIENT/CONSULTANT, if required inform to the Police and as per Trakhees regulation.

19.4 An Incident/Accident report must be completed and submitted in accordance with Trakhees regulation procedures.

19.5 Emergency vehicle routings and evacuation to be determined in line with Client/Consultant Requirement, procedure and as per site condition.

20 Road Closures

No project road shall be closed until Client/Consultant authority has reviewed and concurred with the alternate route and agreed for the road closure plot plan.

CONTRACTOR HSE department shall issue a notification to project personnel and emergency services at least 24 hours before the anticipated road closure.

21.0 Flaggers/Banksman

The primary function of traffic control procedures is to move vehicles and pedestrians safely and expeditiously through or around temporary traffic control zones while protecting on-site workers and equipment.

Flaggers or Banksman providing temporary traffic control should wear high visibility clothing with a background of fluorescent orange-red or yellow–green and retro reflective material of orange, yellow, white, silver, or yellow-green. In areas of traffic movement, this personal protective equipment will make the worker visible for at least 100 meters, so that the worker can be seen from any direction, and make the worker stand out from the background.

Drivers should be warned in advance with signs that there will be a flagger ahead. Flaggers should use STOP/SLOW paddles, paddles with lights during night, or flags (flags should be used only in emergencies.) The STOP sign should be octagonal with a RED background.

Because Flaggers or Banksman are responsible for controlling the vehicle and equipment movement safely they should be provided in-house or external training to improve the following awareness for controlling the traffic movement efficiently to prevent incident/accident: 

- Sense of responsibility for the safety of the public and workers
- Training in safe traffic control practices
- Average intelligence
- Good physical condition, including sight and hearing
- Mental alertness and the ability to react in an emergency
- Courteous but firm manner
- Neat appearance

21.1 Training

Flaggers or Banksman shall be provided training by third-party for the signalling methods and in-house training by qualified and competent HSE engineer. The equipment operators and drivers need to be informed the route of construction vehicles and equipment to be used if specified by the Client. Equipment operators and signal persons need to know the hand signals used on the worksite. Operators
and workers need to know the visibility limits and the “blind spots” for each vehicle on site. Workers should wear high visibility safety jacket. Workers should be made aware of equipment operation.

23.0 ACCESS TO WORK SITE

Vehicle/equipment and other internal combustion driven equipment constitute a source of ignition, the Vehicle/equipment must be equipped with spark arrester and reverse horn. All Vehicle/equipment shall have valid relevant legal documents, third-party certificate and to be inspected by Client/Consultant authority and fix sticker for permanent and for temporary vehicle obtain temporary access pass. All drivers/operators shall be with UAE valid licence and project Gate pass.

24.0 New Comers

All new drivers/operators who carry pick-up, delivery, loading, offloading and operation inside the Client/Consultant premise on a temporary basis, Construction manager or HSE Manager shall ensure that the vehicle/equipment, driver, materials and passengers are escorted to their destination and back safely. The security shall take all necessary measures as per procedure to ensure that new comers don’t wander around work site unattended.

25.0 Towing of Wheel Mounted Equipment

25.1 Any wheel mounted equipment such as air compressors, welding machines, dewatering pumps, etc. must only be towed by suitably powered vehicles fitted with approved towing equipment.
25.2 The packages themselves must also be fitted with approved towing equipment. Complete with integral braking systems.
25.3 When towing at night an integrated tail lighting system, connected to the towing vehicles, must be attached and working on the package being towed.
25.4 The escort is responsible for choosing route through the specific operating unit which will not jeopardize the other traffic and a competent banksman to be assigned for the associated task.

26.0 Oversized Consignments

Oversized consignments must be escorted by CONTRACTOR Security before moving into Project premises.

TRAFFIC SAFETY SIGNAGE
Slow Down Sign: This signage is to be used inorder alert and slow down the moving vehicles at construction work sites.

Stop Sign: This signage is used to notify the drivers that they must stop the vehicle at a particular point in the road before proceeding.
**Two way Traffic Sign:** This signage is used to notify the drivers that they are driving in two-way traffic road. In a two-way traffic road, vehicles will be coming in opposite directions separated by a single track.

**Speed Limit Sign Within Work Site:** This signage is used to indicate the speed limit of **20 km/hr** at worksite. Each and every vehicles passing through construction site shall not exceed this speed limit.

**Seat-Belt Sign:** This signage informs drivers to fasten their seat-belts while driving.

**No Phone while Driving Sign:** This signage warns drivers to not use mobile phones while driving.

**Work in Progress Sign:** This signage indicates the drivers and operators to be cautious while
driving at work site due to the construction work in progress.

12.8 **Work in Progress Diversion Sign**: This signage indicates the vehicles to take diversion due to the work in progress.

12.9 **Road Closed/ Access Only Sign**: This signage indicates that the road is closed for vehicles and it is permitted only for personnel access.

12.10 **Pedestrian Crossing Stop Sign**: This signage indicates the pedestrian crossing at the roads near construction work sites. Vehicles shall stop at the sign and allow pedestrians to pass by.

12.11 **No Parking Beyond this Point Sign**: This signage indicates No-parking of vehicles at certain points at a construction work site.
9. ATTACHMENT

1. Logistic & Traffic LayOut

Prepared by                     Reviewed by   Approved by
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