

SOP 07 – Traffic safety

S07.1 Purpose

This SOP lays down procedures to be adopted by the site management team to ensure the safe and efficient movement of traffic and also to ensure the safety of workmen at construction sites.

S07.2 Scope

The procedure is applicable to EESL program's facilities to fulfill the general safety requirements.

S07.3 General Traffic Safety Rules

The guiding principles to be adopted for safety in construction zone are to:

- All construction workers should be provided with high visibility jackets with reflective tapes as most of viaduct /tunneling and station works or either above or under right-of-way. The conspicuity of workmen at all times shall be increased so as to protect from speeding vehicular traffic.
- Warn the road user clearly and sufficiently in advance.
- Provide safe and clearly marked lanes for guiding road users.
- Provide safe and clearly marked buffer and work zones
- Provide adequate measures that control driver behavior through project's operational zones.
- Traffic management plans shall include provision for traffic diversion and selection of alternative routes for transport of equipment. If necessary, the contractor shall carry out road widening before commencement of works to accommodate the extra load
- The primary traffic control devices used in work zones shall include signs, delineators, barricades, cones, pylons, pavement markings and flashing lights.

S07.4 Mandatory compliance with regulatory and warning signs

It is mandatory to comply with all regulatory requirements with respect to motor vehicles, working on roads and driving in traffic.

- Regulatory signs impose legal restriction on all traffic. It is essential, therefore, that they are used only after consulting the local police and traffic authorities.
- Warning signs in the traffic control zone shall be utilised to warn the drivers of specific hazards that may be encountered.
- The contractor shall place detour signage at strategic locations and install appropriate warning signs. In order to minimize disruption of access to residences and business, the contractor shall maintain at least one entrance to a property where multiple entrances exist.
- Materials hanging over / protruded from the chassis / body of any vehicle especially during material handling shall be indicated by red indicator (red light/flag) to indicate the caution to the road users.

S07.5 Ensuring traffic safety while working on roads

In EESL operations, there are projects which require workers to undertake work on/beside roads where traffic flow is ongoing. This could include main roads, street roads and roads in commercial and residential areas. Therefore, it is extremely important to follow this SOP for reducing traffic related accidents while working on roads

- Traffic cones of 500mm, 750mm and 1000mm high and 300mm to 500mm in diameter or in square shape at base and are often made of plastic or rubber and normally have retro-reflectorized red and white band shall be used wherever required.
- Drums about 800mm to 1000mm high and 300mm in diameter can be used either as channelizing or warning devices. These are highly visible, give the appearance of being formidable objects and therefore command the respect of drivers.
- Full height fence, barriers, barricades etc. shall be erected around the site in order to prevent the working area from the risk of accidents due to speedy vehicular movement. In the same way barricades protect the road users from the danger due to equipment and other temporary structures falling off from height.
- All barricades shall be erected as per the design requirements of the Employer, numbered, painted and maintained in good condition and also Barricade in-charge maintains a barricade register in site.
- The contractor shall not undertake loading and unloading at carriageways obstructing the free flow of vehicular traffic and encroachment of existing roads by the contractor applying the excuse of work execution.
- The contractor shall ensure the cleanliness of roads and footpaths by deploying proper manpower for the same. The contractor shall have to ensure proper sweeping, cleaning washing of roads and footpaths on all the time throughout the entire stretch till the currency of the contract including disposal of sewerage.