

5. DETAILED SCOPE OF WORK FOR
 MAINTENANCE OF N.H.4 AND CONNECTORS

5.1 General

5.1.1 Operation and Maintenance of National Highway:

The Contractor shall operate and maintain the Project / Projects Facility and if required, modify, repair or otherwise make improvements to the Project / project Facility to comply with Specifications and Standards, and other requirements, Good Industry Practice, Applicable Laws and Applicable Permits and manufacturer's guidelines and instruction with respect to Toll Plaza. More specifically, the Contractor shall be responsible for:

- 5.1.1.1 Ensuring smooth and uninterrupted flow of traffic during normal operating conditions;
- 5.1.1.2 Charging, collecting and appropriating toll in accordance with the contract.
- 5.1.1.3 Minimizing disruption to traffic in the event of accidents or other incidents affecting safety and use of the Project/Project Facility by providing a rapid and effective response and for this purpose maintaining liaison with emergency services;
- 5.1.1.4 Undertaking routine maintenance including prompt repairs of potholes, cracks, joints, drains, lane marking, lighting and signage.
- 5.1.1.5 Undertaking maintenance works in accordance with Maintenance Manual and the Maintenance Programme;

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5.1.1.6 Preventing with the assistance of concerned laws enforcement agencies where necessary, to any unauthorized entry to and exit from the Project.

5.1.1.7 Preventing with the assistance of the concerned law enforcement agencies where necessary, any encroachments on the Project / project site and preserving the right of way of the Project.


5.1.1.8 Adherence to the Safety Standards.

All above activities shall be performed by Contractor in co-ordination with the regional officer of MORT&H in Mumbai and MSRDC.

The Contractor shall submit a manual for the regular and preventive maintenance (the "Maintenance Manual") and shall ensure and procure that at all times during the Operation Period, the Project is maintained in a manner that it complies with the specifications and Standards.

5.1.1.9 The Contractor shall comply with the Operation and Maintenance Requirements set out in this Schedule. In doing so, the Contractor shall ensure that the Project Facilities are maintained to the standards and specifications as set out in the Design Requirements and shall also meet the other requirements, if any, set out in the Contract.

5.1.1.10 During the Implementation Period, the Contractor shall take appropriate measures to operate and maintain the existing 2 lane highway and ensure that the same remains open for uninterrupted, smooth and safe traffic flow at all times.


For Identification
Contractor

- 5.1.1.11 In the design, planning and implementation of all works and functions associated with the operation and maintenance of the Project Facilities, the Contractor shall take all such actions and do all such things (including without limitation; organising itself, adopting measures and standards, executing procedures including inspection procedures, highway patrols, and engaging contractors, any, agents and employees) in such manner, as will:
- 5.1.1.12 Ensure the safety of personnel deployed on and users of the Project Facilities or part thereof;
- 5.1.1.13 Keep the Project Facilities from undue deterioration and wear;
- 5.1.1.14 Permit unimpaired performance of statutory duties and functions of any party in relation to the Project;
- 5.1.1.15 During the Contract period, the Contractor shall ensure that:
- 5.1.1.16 The Project Facilities are kept free from undue deterioration and undue wear;
- 5.1.1.17 applicable and adequate safety measures are taken;
- 5.1.1.18 minimum delay is caused to users of the Project Facilities;
- 5.1.1.19 adverse effects on the environment and to the owners and occupiers of property and/or land in the vicinity of the Project Facilities, due to any of its actions, is minimised;

For Tidal Road Health & Safety Ltd.

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Any situation which has arisen or likely to arise on account of any other emergency is responded to as quickly as possible and its adverse effects controlled/minimised;

5.1.1.21 disturbance or damage or destruction to property of third party by operations of the Project Facilities is controlled/minimised;

5.1.1.22 Members of the public are treated with due courtesy and consideration by its employees/ agents;


5.1.1.23 Users are provided with adequate information and forewarned of any event or any other matter affecting the Project Facilities to enable them to control/minimise any adverse consequences by such event or matter;

5.1.1.24 A complaint register to record grievances of any member of the public in relation to the operations and maintenance of the Project/Project Facilities is duly maintained;

5.1.1.25 Traffic data and data relating to the operation and maintenance of the Project Facilities are collected;

5.1.1.26 All materials used in the maintenance, repair and replacement of any of the Project Facilities shall meet the Design Requirements/ standards prescribed.

5.1.1.27 The personnel assigned by the Contractor have the requisite qualifications and experience and are given the training necessary to enable the Contractor meet the O and M Requirements.


For Local Road Building

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5.1.2 Operation and Maintenance Manual and Operation and Maintenance Plans

5.1.2.1 Prior to the commencement of any construction activity, the Contractor, in consultation with the Independent Engineer, shall finalise the O and M Plan - Implementation Period.

5.1.2.2 Prior to making application for the Completion certificate for the Project, the Contractor shall finalise in consultation with the Independent Engineer:

- (i) The O&M Manual
- (ii) The O&M Plan for the first year of operations.

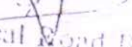
5.1.2.3 Six weeks prior to the anniversary of COD each year, the Contractor shall prepare an annual OandM Plan for the next year of operations.

5.1.3 Maintenance Requirements

5.1.3.1 Road Works

5.1.3.1.1 Maintenance Standards

During Implementation Period, the Contractor shall maintain the existing 2 lane highway in traffic worthy conditions as per the Intervention levels 1 and 2 provided in Table -1;


For Local Road Builders Ltd.

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