

CHAPTER – 1 INTRODUCTION

1.1 General

The state Government of Rajasthan acting through the Chief Engineer (Roads), Public Works Department, is engaged in the development of state Highways and as part of this endeavour, the Authority has decided to undertake two laning of following roads through public private partnership on Design, Build, Finance, Operate and Transfer (DBFOT) basis.

S. No.	Project Highway Description	Length (Km.)	Project Highway Constituting of	Segment Nos.
1	Kapuriya–Khimsar–Roon–Merta City	Km. 0 - 120	MDR-37A / ODR-8 / SH-39	H - I
2	Merta City – Asop – Kherapa	Km. 0 - 76	SH-86 / MDR-58	H - II
3	Sathin – Gotan	Km. 0 - 31	MDR-75	H - III
4	Bhawi – Pipar – Khimsar	Km. 0 – 99	MDR-90	H - IV

In pursuance of the above, STUP Consultants Pvt. Ltd., have been appointed as Consultants to carry out the Feasibility study for determining the technical feasibility and financial viability of the above project roads. The agreement has been signed on 30.10.14 and the services started from 07.11.2014 as per the commencement date given in LOA.

Subsequently, the above mentioned roads have been upgraded vide state govt. notification no. F-7(442) Sec II-Part F/79/D-130 dated 21.08.2015 as per details given below:

S. No.	Classification of road As per earlier notification	Classification of road as per new notification
1	MDR-37A	SH-87
2	ODR-8	SH-87C
3	MDR-58	SH-86A
4	MDR-75	SH-86B
5	MDR-90	SH-86C

During discussions held at Jaipur on 11th August 2015, the H-2, H-3 and H-4 were restricted by the Authority as indicated in our letter No.: 13/6967/E/FC/GU/3075 dated 14th August 2015 (copy enclosed). Accordingly, the Modified Draft Feasibility Report was submitted to the Authority vide our letter No.: 13/6867/E/FC:GU/3335 dated 11th March 2016.

Based on the above, modified Draft Feasibility Report, the Feasibility Report was prepared and the same was also submitted vide our letter No.: 13/6967/E/FC:GU/3336 dated 12th March 2016. However, the final Feasibility Report was discussed in detail during discussions held at Jaipur on 14th and 15th March 2016.

The same was modified accordingly and the present proposal is modified final feasibility report for H-IV.

1.2 Objectives of Consultancy

The main objective of the consultancy is to establish the technical, economical and financial viability of the project and to prepare feasibility Report for rehabilitation and upgrading of the existing road to 2-lane configuration.

The viability of the project shall be established taking into account the requirements with regard to rehabilitation, upgrading and improvement based on highway design, pavement design, provision of service roads wherever necessary, type of intersections, rehabilitation and widening of existing and/or construction of new bridges and structures including flyovers/VUP/PUP etc. (in phased manner), road safety features, quantities of various items of works, cost estimates and financial analysis.

The supplementary Inception Report brings out the viability of the project or otherwise even with VGF upto 20%.

Feasibility Report is to clearly bring out through financial analysis by adopting 15, 20 and 25 years concession period respectively, the viability of the project with maximum VGF 30% during construction period and 10% during O&M or otherwise.

1.3 Scope of Services

The scope of service, inter-alia, covers the following main activities:

- (i) Traffic surveys and demand assessment
- (ii) Engineering surveys and investigations
- (iii) Location and layout of toll plazas
- (iv) Location and layout of truck laybys
- (v) Location and layout of bus bays and bus shelters
- (vi) Wayside amenities
- (vii) Safety
- (viii) Social impact assessment
- (ix) Environment impact assessment
- (x) Preliminary Designs of road, bridges, structures, etc.

- (xi) Preparation of Land Plan Schedules and Utility Relocation Plans
- (xii) Preparation of indicative BOQ and rough Cost Estimates
- (xiii) Preparation of Schedules A, B, C, D and H of the Concession Agreement.

1.4 Project Stages

Project is to be completed in following stages:

Stage	Report & Deliverable
KD-1	Inception Report
KD-2	Supplementary Inception Report
KD-3	Report on Alignment and Traffic Survey
KD-4	Report on Land Plan Schedules and Utility Relocation
KD-5	Report on Indicative GAD of Structures
KD-6	Report on Environment and Social Impact Assessment
KD-7	Draft Feasibility Report and Schedule to the Concession Agreement
KD-8	Final Feasibility Report
KD-9	Completion of Services including Assistance during Bid Process

1.5 Present submission is Revised Final Feasibility Report (KD-8)

1.6 Final Feasibility Report (FFR)

The Final Feasibility Report comprises of following volumes:

Volume I	-	Main Report
Volume II	-	Preliminary Design Report
Volume III	-	BOQ, Rate Analysis and Cost Estimate
Volume IV	-	Drawings

The main report consists of following chapter:

- a. Introduction
- b. Project Description
- c. Traffic Surveys
- d. Engineering Surveys & Investigation Reports
- e. Design Standard & Improvement Proposal
- f. Cost Estimate
- g. Financial Analysis and Recommendation