

## PROJECT PREPARATORY TECHNICAL ASSISTANCE

### A. Justification

1. The proposed project preparatory technical assistance (PPTA) to the Madhya Pradesh Public Works Department (MPPWD) is required to:
  - (i) Assess sector development plan and scope of the Project;
  - (ii) Assess and strengthen detailed project reports (DPRs) prepared by Madhya Pradesh Road Development Corporation (MPRDC) for financing by Asian Development Bank (ADB), including safeguards due diligence, with better project readiness. Project readiness will ensure that project preparation is ready for implementation with feasibility reports, safeguards planning documents, DPRs, and bidding documents prepared for sample roads;
  - (iii) Identify capacity development needs of MPPWD and MPRDC in developing and managing state roads in a sustainable manner. Sustainability of road development and management includes planning capacity, procurement and contract management, road asset management, streamlined business process, road safety, environmental consideration, and so on; and
  - (iv) Assist MPRDC in undertaking advance contracting actions, including public-private partnership (PPP) elements, for sample roads.

### B. Major Outputs and Activities

2. The major outputs and activities are summarized in Table A4.1.

**Table A4.1: Summary of Major Outputs and Activities**

Major Activities	Expected Completion Date	Major Outputs	Expected Completion Date
Consultant mobilization	Feb-2014	Inception Report	Mar-2014
Assessment of Sector Development Plan	Mar-2014	Economic & Sector Assessment Report	May-2014
Assess DPRs for sample projects	Apr-2014		
Prepare documents for project readiness for sample projects	May-2014	Detailed Project Reports	May-2014
		Initial Environmental Examination, Environmental Assessment and Review Framework.	May-2014
		Resettlement Framework and Plan, Social Assessments, Indigenous Peoples Planning Framework, & Gender Action Plan	May-2014
Institutional assessment for MPPWD, MPRDC	May-2014	Institutional and Capacity Assessment Report	May-2014
Support for advance contracting	Jun-2014	Procurement Documents	Jun-2014

Source: Asian Development Bank

### C. Cost Estimate and Proposed Financing Arrangement

3. The TA is estimated to cost \$225,000 equivalent, which will be financed on a grant basis by the ADB's Technical Assistance Special Fund (TASF-other sources). The government will provide support in the form of counterpart staff, office accommodation, office supplies, communication facilities for PPTA consultants, and other in-kind contributions, valued at approximately \$30,000. The detailed cost estimate is presented in Table A4.2.

**Table A4.2: Cost Estimates and Financing Plan**  
(\$'000)

Item	Total Cost
<b>Asian Development Bank<sup>a</sup></b>	
1. Consultants	
a. Remuneration and per diem	
i. National consultants (20 person-months)	176.0
b. Local travel	12.0
c. Reports and communications	4.0
2. Surveys	20.0
3. Contingencies	13.0
<b>Total</b>	<b>225.0</b>

<sup>a</sup> Financed by the Asian Development Bank's Technical Assistance Special Fund (TASF-other sources).

Source(s): Asian Development Bank estimates

### D. Consulting Services

4. A firm (or consortium of firms) will be engaged to undertake this PPTA. As estimated, this assignment will require 6 national experts for a total of 20 person-months. The consulting firm will be engaged following the quality- and cost-based selection method, with a quality–cost ratio of 90:10 using bio-data technical proposal procedures. Procurement of all consultancy services used under the PPTA will be carried out in accordance with ADB's Guidelines on the Use of Consultants (March 2013, as amended from time to time).

**Table A4.3: Summary of Consulting Services Requirement**

Positions	Person-Months Required
<b>National</b>	
Team Leader/ Highway Engineer	5
Transport Economist	2
Procurement Expert	2
Institutional Finance Expert	2
Environmental Safeguards Expert	4
Social & Gender Expert	5
<b>Total National Key Experts</b>	<b>20</b>

Source: Asian Development Bank estimate.

5. The outline terms of reference for the PPTA consultants are described in paras. 6 to 11.

## **E. Outline Terms of Reference for Key National Experts**

6. **Team Leader/ Highway Engineer.** The Team Leader will be a Civil Engineer with Master's degree in Highway or Transportation Engineering, and at least 20 years of experience in the highways sector. The Team Leader will provide technical and managerial inputs, as well as overall guidance to the PPTA. The team Leader will focus primarily on the Sector Development Plan and on reviewing the DPRs prepared by MPRDC to ensure cost effectiveness, safety, and appropriateness of the design in light of best practices. The Team Leader will propose measures to improve climate resilience and road safety. The Team Leader will coordinate with MPRDC as well as DPR consultants appointed by MPRDC.

7. **Transport Economist.** The Transport Economist will be a Civil Engineer or Economist with post-graduate qualifications in transportation or transportation economics and at least 15 years' experience in the sector. The economist will undertake economic and financial viability analysis of the proposed sample roads under the Project.

8. **Procurement Expert.** The Procurement Expert will be a graduate in civil engineering, with at least 12 years' experience in procurement for infrastructure projects, preferably including PPP contracts. The expert is required to be familiar with ADB's procurement guidelines. The expert will be responsible for assessing MPRDC's capacity in carrying out procurement as per ADB's procurement guidelines, incorporating elements of PPP as required. The expert will assist MPRDC in advance procurement, including for preparation of procurement plan, procurement packaging, procurement documents, technical schedules, etc., to attain a high level of readiness to bid. If required, the expert should also review the e-procurement system being followed in the state.

9. **Institutional Finance Expert.** The Institutional Financial Expert will be a Chartered Accountant or holding a Master's degree in Business Administration with finance and accounting, with at least 12 years' experience in financial management, audit, and accounts for public sector institutions. The expert will undertake a governance (financial management, institutional) appraisal of the MPRDC and a fiscal assessment of the state of Madhya Pradesh, from available data. Based on the assessment, the expert will recommend measures to strengthen specific areas.

10. **Environmental Safeguards Expert.** The Environmental Safeguards Expert will be a graduate in environmental engineering/ science/ management or related fields. The expert will have at least 8 years' experience of having undertaken environmental assessment for infrastructure projects comprising roads and transportation projects, and conversant with ADB's requirements under Safeguards Policy Statement (2009). The expert will assess the sample roads under the Project through IEE, including Environmental Management Plan and develop the environmental assessment and review framework for the proposed investment program.

11. **Social & Gender Expert.** The Social & Gender Expert will be a graduate in sociology, or other related fields. The expert will have at least 8 years' experience in dealing with rehabilitation and resettlement matters, working with social groups and communities, livelihood aspects, and gender concerns. The expert will have familiarity with ADB's requirements under Safeguards Policy Statement (2009), for road and highway projects. The expert will assess the sample roads under the Project and prepare a resettlement plan as required. The expert will review existing social & community aspects of the sample roads under the Project, poverty, employment and literacy data, and determine employment benefits and potential labor impacts. The expert will also assess any poverty and gender-related matters relating to sample roads

and prepare appropriate plans, including a Gender Action Plan, for feasible interventions to improve these aspects of the project design. This gender analysis will build on preliminary gender issues which are mentioned in the IPSEA, such as possible employment during construction and for ongoing maintenance. The expert will identify and include gender-inclusive design features that would maximize gender benefits required to attain the “Some Gender Elements” gender categorization for the project, such as employment or livelihood opportunities, ways to enhance women's mobility and access to social services and economic opportunities beyond road connection (e.g., affordable public transport services, women's safety and security). The expert will prepare an Indigenous Peoples planning framework and IPP (the latter as required).

## F. Implementation Arrangements

12. MPPWD will be the PPTA executing agency, and it will act through MPRDC. MPRDC will provide in-kind contributions in the form of counterpart staff, office accommodation, office supplies, and communication facilities for consultants. PPTA consultants will be mobilized in a staggered manner to act in concert with activities being undertaken under the DPRs being prepared by MPRDC to facilitate advance actions to achieve project readiness.

13. The proposed TA processing and implementation schedule is listed in Table A4.4.

**Table A4.4: Technical Assistance Processing and Implementation Schedule**

<b>Major Milestones</b>	<b>Expected Completion Date</b>
Concept Paper clearance	Nov-2013
Consultant mobilization	Feb-2014
Project documentation completed	May-2014
Project readiness for contracting	Jun-2014
Completion of PPTA	Sep-2014

Source: Asian Development Bank

14. Disbursements under the TA will be done in accordance with the ADB's Technical Assistance Handbook (May 2010, as amended).

15. The objective of the PPTA is to build on the DPRs prepared by MPRDC, and to make the necessary checks and changes to make them suitable for meeting ADB's requirements. Further details on the distribution of work as between the DPRs and the PPTA are given in Supplementary Appendix C.