

No. NCRTC/CE(G)/WEC/88 (Vol-II)/B/21

Dated, 21/04/2022

**Work Experience Certificate**

This is to certify that Consortium of URS Scott Wilson-Consulting Engineers Group Ltd. Have provided the Consultancy Services for carrying out the Feasibility Study for connecting Delhi – Alwar RRTS from SNB Urban Complex to Sotanala RIICO Industrial Area followed by preparation of Detailed Project Report. (Length: 37 Km).

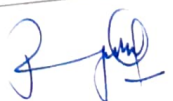
The details of the project are as follows:

1.	Name of Work	Consultancy Services for carrying out the Feasibility Study for connecting Delhi – Alwar RRTS from SNB Urban Complex to Sotanala RIICO Industrial Area followed by preparation of Detailed Project Report. (Length: 37 Km).
2.	Agreement No.	Contract DA/DPR SNB-Sotanala/01
3.	LOA No. & Date	NCRTC/D-01/GGM(DP)/Feasibility Study & DPR/SNB-Sotanala/2017 dated 23.03.2018
4.	Name of Contractor and registered address	M/s URS Scott Wilson India Pvt. Ltd. (Leader Member) in consortium with M/s Consulting Engineers Group Ltd. 19 <sup>th</sup> Floor, Tower C, Building 5, Cyber Terraces, DLF Cyber City Phase III, Gurgaon-122002
5.	Constitution of the firm whether: Proprietor, Partnership, LLP, Company, JV, Consortium, Society	JV
6.	PAN No.	AABCS1541C
7.	If Joint Venture/consortium/ Partnership firm, % share of each member in JV/consortium /Partnership	1. M/s URS Scott Wilson India Private Limited-70% 2. M/s Consulting Engineers Group Limited-30%
8.	Original awarded contract Value	INR 2,84,90,000/- (excluding GST)
9.	Revised/Final contract Value	INR 2,84,90,000/- (excluding GST)
10.	Value of actually executed works (as on 31.03.2022)	INR 25,641,000/- (excluding GST)
11.	Date of commencement	30 <sup>th</sup> March 2018
12.	Scheduled date of completion (As per Contract)	29 <sup>th</sup> March 2019
13.	Extension of Time, if any	30 <sup>th</sup> June 2022
14.	If delay in execution on Contractor's Account	NA
15.	Liquidated Damages levied for delay, if any	NA
16.	Scope of Services	<b>A. Preparation of Feasibility Study</b> • Secondary Data Analysis • Primary Data Collection and Analysis

- Mapping
- Performance estimates for speed, capacity, energy efficiency, reliability etc.
- Alternative layout and definition of intermediate stations for each of the options.
- Analysis of the environmental legislation and conditions on the designed
- Alternatives
- Initial assessment of needs of Relocation and Rehabilitation (R&R)
- Selection of Alignment
- Selection of Stations. Functional proposals and dimensions for different typologies (new stations)
- Other facilities: maintenance bases, workshops. Description and location
- Evaluation and Selection of most appropriate technologies
  - Track Structure (typology)
  - Traction & Power Supply System
  - Signaling and Traffic Control
  - Fixed and mobile Telecommunications
  - Support systems (alarms, access control, ticketing)
    - ✓ Alarm systems and risk protection (in track and at station)
    - ✓ Access control and ticketing
  - Traffic management & safety integrated platforms
  - Train Operation Plan
- Maintenance basic definitions and schemes/asset management optimization
- Estimated cost of the RRTS line: Planning, Design and Construction, Operation & maintenance.
- Revenue and Business opportunities
- Financial Analysis
- Economic Analysis

### **B. Preparation of Detailed Project Report (DPR)**

- Detailed Study of the selected route
  - Profile of the Cities along the Route
  - Existing Transportation System along the proposed route of RRTS Corridor
  - Travel Characteristics
  - Comprehensive Mobility Plan
  - Regional Rapid Transit System (RRTS) System Design
  - Depots and Workshops
  - Operation and maintenance of entire RRTS system



		<ul style="list-style-type: none"> <li>➤ Financial Planning and Cost Estimates</li> <li>➤ Sustainability Analysis of the System</li> <li>➤ International Experience of Regional Rail Transit System – Case study</li> <li>• Preparation of comprehensive Detailed Project Report (DPR) <ul style="list-style-type: none"> <li>➤ Background of the Project</li> <li>➤ Travel Demand Forecast</li> <li>➤ System Selection</li> <li>➤ Alignment Description and Geometric Design of Track</li> <li>➤ Civil Engineering Aspect</li> <li>➤ Utilities to be Diverted</li> <li>➤ Geotechnical Investigation</li> <li>➤ Station Planning, Disabled friendly features, Multi Modal Integration &amp; TOD</li> <li>➤ Train Operation Plan</li> <li>➤ Rolling Stock</li> <li>➤ Maintenance Depot and Workshop</li> <li>➤ Power Supply &amp; Traction</li> <li>➤ Ventilation and Air Conditioning System</li> <li>➤ Signaling, Telecommunication and Fare Collection</li> <li>➤ Environment and Social Impact Assessment</li> <li>➤ Disaster Management and Security Measures</li> <li>➤ Stakeholders' Workshop</li> <li>➤ Cost Estimates</li> <li>➤ Financial Analysis</li> <li>➤ Economic Analysis</li> <li>➤ Implementation Plan</li> <li>➤ Conclusions (Introductory, Stakeholders' workshop, Financial &amp; Economic Analysis, DPR, Financial &amp; Economic Results, Concessions/ exemptions sought from Government(s))</li> </ul> </li> </ul>
17	Status of work (along with overall % physical and % financial progress achieved till date	Physical Progress: 98% Financial Progress: 90%
18	Overall performance of contractor	Performance is satisfactory.

This Certificate is issued on the request of **M/s Consulting Engineers Group Ltd.** for Business Development purpose.

**(Yogesh Chandra Srivastava)**  
**Chief Engineer/General**  
**For and on behalf of NCRTC**