

INVITATION FOR SUBMISSION OF EXPRESSION OF INTEREST (EOI)
for
PROCUREMENT OF CONSULTING FIRM
as
PROJECT MANAGEMENT SUPERVISION CONSULTANT (PMSC)

Issuing Date: 04/08/2024

India: Tripura Industrial Infrastructure Sector Development Program (TIISDP) in Tripura
ADB Project Number – 58021-001

Tripura Industrial Development Corporation Limited
(Department of Industries & Commerce, Government of Tripura)

1. The Government of India has requested assistance under the proposed "Tripura Industrial Infrastructure Sector Development Program" from Asian Development Bank, hereinafter referred to as ADB: towards the cost of “India: Tripura Industrial Infrastructure Sector Development Program” for selection of Consultant for Project Management, Contract Management, Monitoring and Evaluation, Support for the Tripura Industrial Infrastructure Sector Development Program (TIISDP) under ensuing ADB loan is being used for eligible payments under the Consulting Services named above.
2. The Project Management Unit (PMU) of Tripura Industrial Development Corporation Limited - the implementing agency is the "Employer" headed by the Project Director, PMU, TIDCL acting as IA for the Department of Industries & Commerce (DOI&C), Government of Tripura, the Executing Agency (EA) for the stated " **Tripura Industrial Infrastructure Sector Development Program (TIISDP)**" and invites "Expression of Interest (EOI)" from reputed and experienced consultancy firms/organisations having extensive technical and working experience in Infrastructure including water supply, roads, drainages, septage/sanitation/Waste management contract package/assignment to be executed. This EOI invitation is for Project Management & Supervision Consultant (PMSC) to assist DOIC/ TIDCL of Government of Tripura in project implementation and management of the TIISDP. The works implementation of TIISDP is under processing; while the bidding for various contract package will begin in a phased-manner for 9 industrial estates.

Assignment Number	Name of the Assignment
TIDC-PMSC-ADB-01	Project Management & Supervision Consultant (PMSC)

3. Interested firms/organizations should submit their EOI on or before 03/09/2024, 15:00 Hrs. The details of Draft Terms of References (TOR) are available at 'Consultant Selection Recruitment

Notice (CSRN)' of www.adb.org and <https://tidc.tripura.gov.in/> and <https://industries.tripura.gov.in/>. EOIs submitted in other than the EOI standard template will be considered as non-responsive and will not be evaluated. EOI standard template can be downloaded only from ADB website. (<https://www.adb.org/documents/recruitment-firms-individual-consultants-executing-agencies>).

4. The details of the consulting assignment/package are:

Start Date of Publication of EOI on ADB CSRN:	04/08/2024
Time and Deadline for Issuing TOR:	15:00 Hrs IST 04/08/2024
Time and Deadline for Submitting EOI:	15:00 Hrs IST, 03/09/2024 (17:30 Hrs Manila Time for EOI Submission on ADB website)
Duration of Assignment (in months):	60 (Sixty) months
Tentative Commencement Date of Consulting Services:	1st December, 2024
Anticipated Completion Date of Consulting Services:	31 st November, 2029
Types of Consultants:	Firms/Organizations (JV/Associations) allowed
Number of Consulting Assignment/Package:	1(One), No. : TIDC-PMSC-ADB-01
Selection Method:	Quality & Cost Based Selection (QCBS-80:20)

5. Firms eligible as per ADB guidelines and norms will be selected.
6. Under no circumstances will the ADB, and TIDCL, Government of Tripura be responsible for any cost incurred in submission of the EOI.
7. The procurement entity reserves the right to accept or reject any or all EOIs.
8. The Shortlisted Firms would subsequently be issued RFP.

Office of the Project Director

Vishwasree B (IAS)

Project Management Unit (PMU) [ADB Assisted - Ensuing Loan]

Managing Director, Tripura Industrial Development Corporation (TIDCL)

Department of Industries & Commerce, Government of Tripura

(A Government of Tripura Undertaking)

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OUTLINE TERMS OF REFERENCE (TOR)
For
Recruitment of Consulting Firm (National) as
PROJECT MANAGEMENT & SUPERVISION CONSULTANT (PMSC)
Consulting Package No.: TIISDP/TIDCL/PMSC-1
to support PMU –TIDCL,
Directorate of Industries & Commerce,
Government of Tripura
under ADB-Assisted Project

I. PURPOSE AND OBJECTIVES

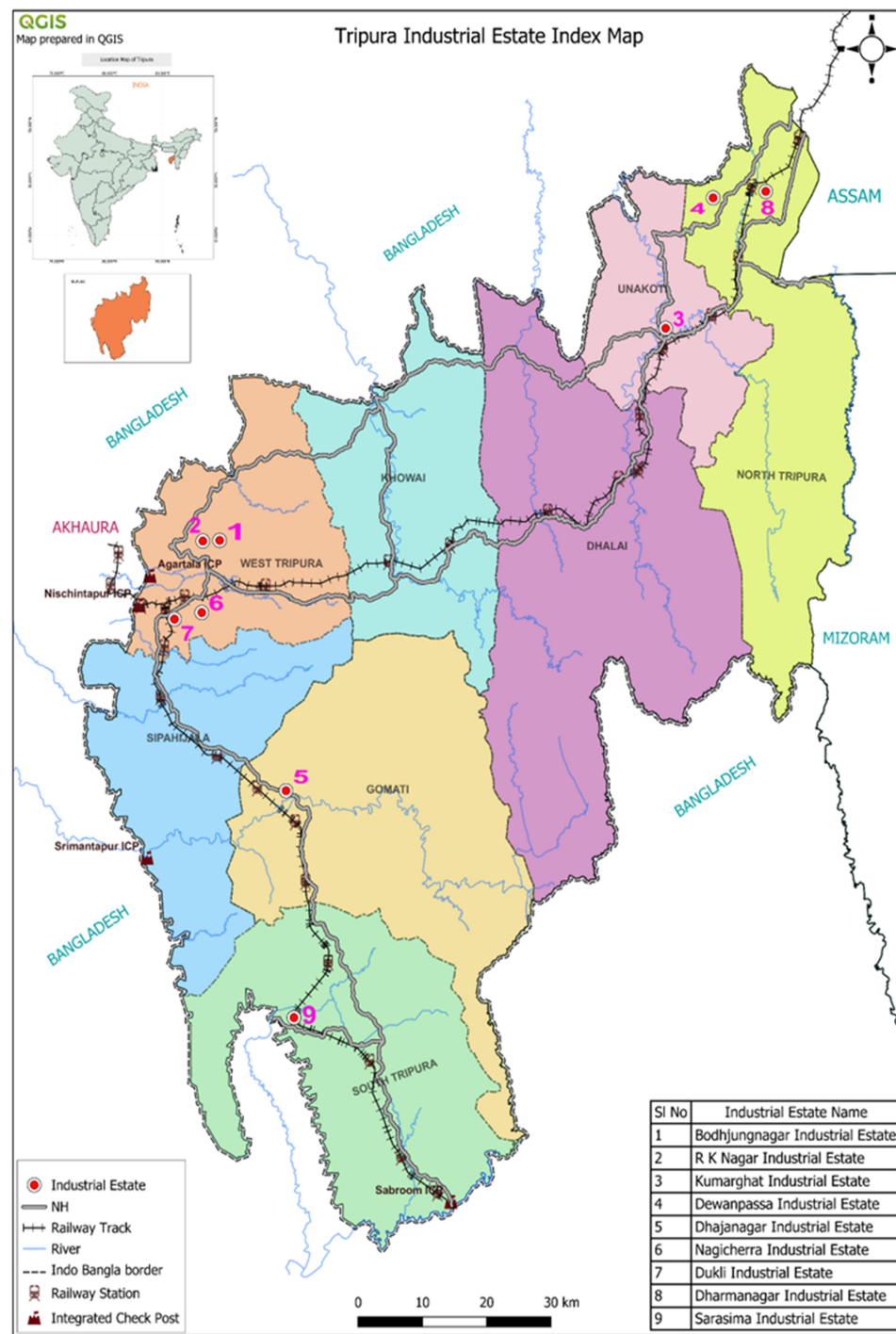
1. The Government of Tripura (GoT) has applied for a loan from the Asian Development Bank (ADB) through the Department of Economic Affairs (DEA), Ministry of Finance, Government of India to improve infrastructure of 9 industrial Estates in the state under Tripura Industrial Infrastructure Sector Development Program (TIISDP). The ensuing project aims to improve infrastructure in the industrial estates in Tripura and strengthen institutional and financial capacities of Directorate of Industries and Commerce (DOIC) and Tripura Industrial Development Corporation Ltd. (TIDCL). The project will be financed through a regular loan from ADB's ordinary capital resources, expected to be approved in year 2024.

2. The key objectives of the Project Management & Supervision Consultant (PMSC) is to support the Project Management Unit (PMU) of TIDCL, Government of Tripura by providing expertise in project implementation and management of the prioritized industrial estates-related infrastructure for the 9 Industrial estates spread over 5 districts of Tripura (Map 1.0).

3. TIDCL invites "Expression of Interest (EOI)" from reputed and experienced consultancy firms/organizations having extensive technical and working experience in development of Industrial Infrastructure including (i) landscaping & land development, (ii) roads and storm water drainage (iii) power distribution network including sub-stations (iv) water supply network (v) waste, sanitary and effluent water drainage, treatment and management (vi) industrial waste management (vii) social infrastructure, common building facilities & industrial sheds (viii) solar power plant; and (ix) internal safety and security etc. related works. This EOI invitation is for PMSC to support in development of best in class industrial infrastructure improvement, strengthening institutional and financial capacities of DOIC and TIDCL, and its operational services improvement and supervision in execution of the work under the project.

II. BACKGROUND AND RATIONALE

4. Tripura is a landlocked state in northeast India, bordering Bangladesh and the Indian states of Assam and Mizoram. It is primarily an agrarian state, having favorable climatic conditions for cultivation of various fruit and horticultural crops. It is rich in natural resources such as natural gas, rubber, bamboo, tea, and medicinal plants. In addition, it acts as a gateway between northeast India and Bangladesh, with an 856-kilometer border with Bangladesh, offering good potential for international trade. However, Tripura is industrially backward and low availability of infrastructure including industrial infrastructure has made the process of economic development and decentralization extremely difficult in the state.



Map1.0: Location of Industrial Estates in Tripura

5. The state has established rubber, food, and bamboo parks to support existing and potential investors.¹ The state has the potential to promote manufacturing growth, and accordingly TIDCL has planned the development of 9 industrial estates with the objectives of promoting industry, developing entrepreneurship, and generating employment.² Tripura's vision for manufacturing sector growth to increase from 1.79% in 2011 to 4.50% in 2030.³

6. In 2022, the ADB approved Project Readiness Financing (PRF) loan amounting to \$2.00 million for the infrastructure development of industrial estates in Tripura, to develop investment-ready ensuing project/ subprojects. The PRF project concluded in June 2024, and a new ADB loan (the ensuing loan) to finance the implementation of TIISDP is under processing. The summary of description of project components of 22 packages of civil, electrical and solar works in these industrial estates is given in Table 1.0 and the bidding for various contract package works has begun in a phased-manner for 9 industrial estates. .

7. The PMSC consulting firm will work in close coordination with the Project Management Unit (PMU) of TIDCL (Figure 1.0), 4 Project Implementation Units (PIU), DOIC and in close coordination with other Departments of Government of Tripura, Central Governmental Agencies, Urban Local Bodies (ULBs), ADB, Consultants, Contractors, Sub Contractors and other Stakeholders identified by TIDCL.

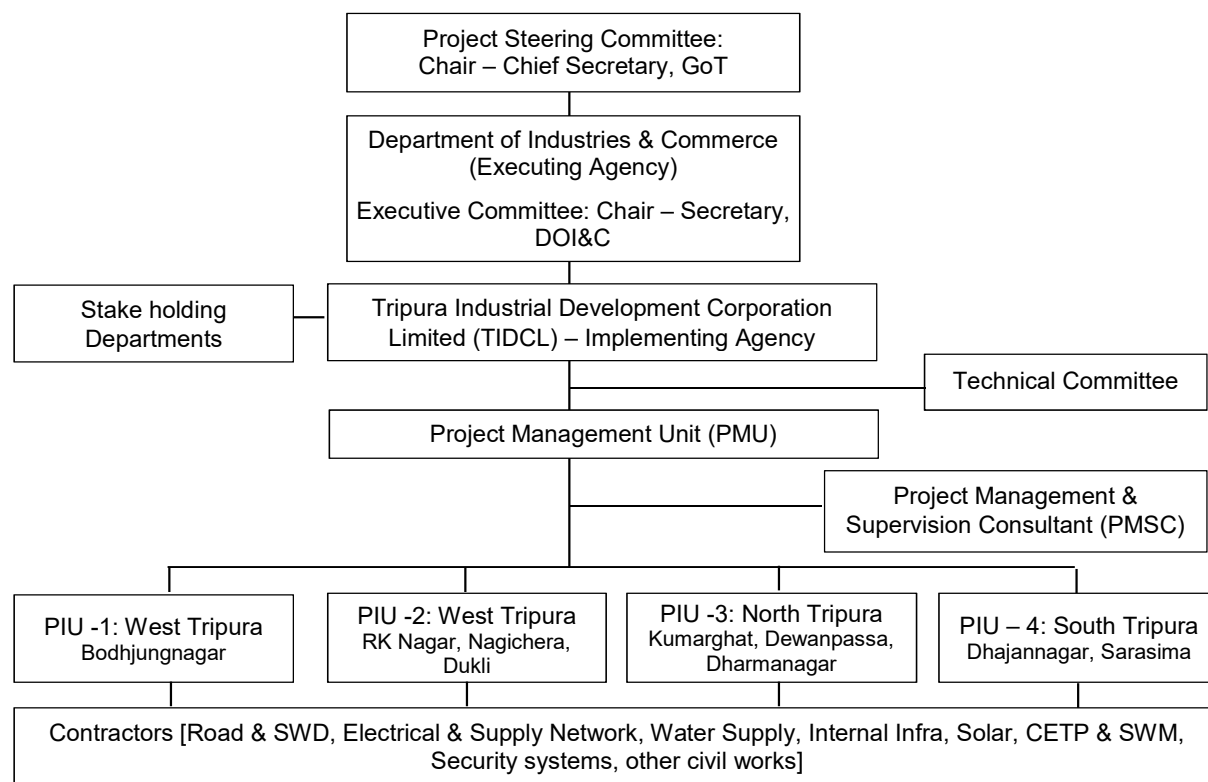


Figure 1.0: Organization Structure of TIDCL Project Implementation

¹ India Brand Equity Foundation. 2021.

² Industrial Infrastructure in Tripura. <https://tidc.tripura.gov.in/ind-est.html>.

³ Tripura Infographic June 2021 by India Brand Equity Foundation using Government of India sources.

Table 1.0: Description of Project Components

Package	Package Type	Industrial Estate	Description of project components
1	Civil Works	Bodhjungnagar	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
2	Civil Works	Bodhjungnagar	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
3	Civil Works	Bodhjungnagar	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
4	Civil Works	R K Nagar	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
5	Civil Works	R K Nagar	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
6	Civil Works	Nagichera	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete).
7	Civil Works	Dewanpassa	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete), Land development, Water supply (Deep tube well, Water sump, OHT, Iron removal plant, Pump house, water pipeline etc., Industrial sheds, Common building, Common public toilet, Boundary wall, Weigh bridge, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., OFC, Fire & Safety system, Watch tower).
8	Civil Works	Dhajan Nagar+ Sarasima	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete), Land development, Water supply (Deep tube well, Water sump, OHT, Iron removal plant, Pump house, water pipeline etc., Industrial sheds, Common building, Common public toilet, ITI Workshop, Transit Hostel, Boundary wall, Weigh bridge, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., Fire & Safety system, Watch tower, Entry gate).
9	Civil Works	Dukli	Road (Rigid Pavement) and Storm water drainage & Culverts (Concrete), water, Common utilities, security, Boundary wall, Entry gate, Weigh bridge.
10	Civil Works	Kumarghat+ Dharam Nagar	Road (Rigid Pavement) and Storm water drainage & Culvert (Concrete), Land development, Water supply (DTW, Raw water rising mains,, Water sump, Clear water reservoir, OHP, Iron removal plant, Pump house, water pipeline etc., Industrial sheds, Common building, Common public toilet, Boundary wall, Weigh bridge, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., OFC, Fire & Safety system, Watch tower), Environmental sensors.
11	Electrical works	Bodhjung Nagar	Electrical works – TSECL (Replacement of 25 MVA, 132 /33 KV Power Transformer, and reconditioning and communication equipment's (Wave trap/CVT etc.), Construction of S/s to S/s Communication - Tele protection & Optical Fiber Equipment's, Construction of 33 KV Bay at 132 KV Bodhjungnagar S/s., Construction of 33 KV Bay at 132 KV Bodhjungnagar S/s, Supply and Installation DG Set. Supply and laying of 33 KV 1Cx185 sq. mm. XLPE UG Cable 33 KV Feeder, OH line replacement, Line for HT consumers etc., Construction of new 33/11 KV S/s with 7.5 and 5 MVA Power Transformer and 63 KVA Station Transformer, Supply and Laying of UG 11 KV XLPE 240 sqmm Cable for replacement of OH Network; 185 sqmm for new 11 KV feeders, 120 sq. mm for HT consumers, Supply and Installation of DTR's 11/0.4 KV (500 KVA, 315 KVA 63 KVA),Supply and Laying of UG LT XLPE cables - 300 sqmm , 185 sqmm, 120 sqmm, etc., Supply and Installation of Street Light LED Lamps, High Mast Lighting, Associated Civil Works.
12	Electrical works	R K Nagar+ Nagichera+ Dukli	Electrical works – TSECL- Supply, Erection & Installation for Construction of 33 KV Line from Badharghat S/s to Dukli new 33/11 KV S/s, average span 50m, Supply, Erection & Installation for construction of 33 KV Line Railway Crossing between Badharghat S/s and Dukli new 33/11 KV S/s, Supply, Erection & Installation for Construction of 33/11 KV Substation with 5 MVA Power Transformer and 63 KVA Station Transformer, Supply, Erection & Installation for Construction of New 11 KV Overhead Composite Line, Supply and Installation of 11/0.4 KV DTR.(315 KVA, 200 KVA), Supply, Erection & Installation Replacement of old 11 KV Weasel conductor by Racoon and LT by ABC 150 sq mm, Supply and Installation of Street Light LED Lamps on Street Light Pole & High Mast Light, Supply, installation & erection for Replacement of 7.5 MVA 33/11 KV Power Transformer by 10 MVA 33/11 KV Power Transformer with Breaker, CT PT and Cables at Adarsha Colony S/s, Supply and Laying of UG 11 KV XLPE 185 sqmm Cable (2 Lengths) from Adarsha Colony S/s to Nagicherra IE, Supply, installation & erection for 11 KV new Line inside Nagicherra IE, Supply, Erection & Installation of 11/0.4 KV DTR.(500 KVA, 315 KVA, Supply, Erection and Installation for New LT Feeder with ABC 150 sq mm Cable, Supply and Installation of Street Light LED Lamps on 11 KV LT Composite Poles, High mast, Design, Supply and Installation, Commissioning of 10 KW Solar Plant, Construction of new 33/11 KV S/s with 5 MVA and 3.15 MVA Power Transformer and 63 KVA Station Transformer, Supply & laying of new 1 Core 33 KV XLPE 185 sqmm, Al Power Cable, 185 Sqmm XLPE cables, Supply and Laying of UG 11 KV XLPE 240 sqmm Cable for new 11 KV Feeders inside RK Nagar IE, Supply and Laying of UG 11 KV XLPE 240 sqmm, 185 sqmm Cable for replacement of OH Network inside RK Nagar IE, Supply and Installation of DTR 11/0.4 KVA (500 KVA, 315 KVA, 200 KVA, 25 KVA) Supply and Laying of UG LT XLPE 300 sqmm, 185 sqmm Cable, Supply and Installation of Street Light LED Lamps on Street Light Poles, High mast poles.
13	Electrical works	Dewanpassa+ Kumarghat+	Electrical works – TSECL (Replacement of old 33 KV OH Dog conductor by covered Dog conductor from PK Bari 132 KV S/s to Kumarghat 33 KV S/s, Supply and Laying of UG 33 KV XLPE 185 sqmm Cable from Kumarghat SS to Kumarghat IE and 33 KV LILO System, Construction of new 33/11 KV S/s with 2X3.15 MVA Power Transformers, Supply and Laying of UG 11 KV XLPE 185 sqmm, 120

Package	Package Type	Industrial Estate	Description of project components
		Dharam Nagar	sqmm Cable for new 11 KV Feeders, Supply and Installation of DTRs 11/0.4 KVA) - 500 KVA, 315 KVA, Supply and Laying of UG LT XLPE (185 sqmm, 95 sqmm) Cable, Supply and Installation of Street Light LED Lamps & High mast lights, Supply, Erection & Installation of 5 MVA 33/11 KV Power Transformer and Construction of new 33 KV and 11 KV Bay, Supply, Erection and Laying of UG 11 KV XLPE 185 sq.mm Cable (2 Lengths) from TFDC feeder to IE, Supply, Erection & Installation for Replacement of Existing 11 KV OH line, Supply, Erection & Installation for 11 KV new Line from New 33 KV S/s inside Dewanpassa IE laid by ACSR Racoon Covered Conductor on 11 m MS Poles, Supply and Installation of 11/0.4DTR (500 KVA, 315 KVA, 200 KVA), Supply, Erection & Installation for New LT Feeder with ABC 150 sq mm Cable, Supply and Installation of Street Light LED Lamps on Street Light Poles, High mast poles, Design, Supply and Installation, Commissioning of 25 KW Solar Plant along with control room. , Supply, Erection & Installation for Construction of 11 KV new Line inside Dharmanagar IE, Supply and Installation of 11/0.4 KV DTR.(315 KVA, 200 KVA), Supply, Erection & Installation for Construction of New LT Feeder with ABC 150 sq mm Cable, Supply and Installation of Street Light LED Lamps on Street Light Poles, High mast poles).
14	Electrical works	Dhajan Nagar+ Sarasima	Electrical works – TSECL Supply, Erection & Installation for Construction of new 33/11 KV S/s with 3.15 MVA Power Transformer and control room building, Supply, Erection & Installation for Construction of 11 KV new Line inside Dhajanagar IE, Supply and Installation of 315 KVA, 11/0.4 KV DTR, Supply and Installation of 200 KVA, 11/0.4 KV DTR, Supply, Erection & Installation for Construction of New LT Feeder with ABC 150 sq mm Cable, Supply and Installation of Street Light LED Lamps on Street Light Poles, Supply and Installation of High Mast Lighting. Supply, Erection & Installation for Construction of New 11 KV & LT Composite Line inside Sarasima IE, Supply, Erection & Installation for Replacement of old 11 KV Weasel conductor by covered weasel conductor, Supply, Erection & Installation for Construction of 11 KV Bay at 33/11 KV Sarasima Town SS, Supply and Installation of 11/0.4 KV DTR (500 KVA, 315 KVA, 200 KVA), Supply and Installation of Street Light LED Lamps on Street Light Poles M High Mast Light.
15	Solar works	All	TREDA Package - renewables - Goods/ works, Design, Supply and Installation, Commissioning of Solar Plant along with control room and related facilities.
16	Electrical works	Bodhjungnagar	TPTL Package New 33 KV Bay and Reconditioning of Existing Bay at 132 KV Bodhjungnagar S/s with Supply, erection, testing and commissioning of 25 MVA, 132 KV/33 KV ONAN / ONAF, Dyn11, OLTC & 11 KV Incoming Vacuum Circuit breaker, Control & relay panel simplex type, 350 MVA rupturing capacity, 1250A rated current, complete with electrical closing mechanism with internal wiring, one set of Numerical over current & earth fault relay, master trip relay, AC & DC Supervision Relay, 1- volt meter with selector switch, 3- ammeter, Tri-vector Meter, 4- core CT with ratio 1200-600 / 1-1-1-0.577 A. with P.T. of PTR 11 KV / $\sqrt{3}$ / 110V / $\sqrt{3}$ with integral earthing facility and internal arc tested for Incomer Panel. Also establishing S/s to S/s Communication – Tele-protection & Optical Fiber Equipment like SDH Equipment- (STM-4 MADDM, up to 3 MSP protected directions) Base Equipment (Common cards, Cross-connect/control cards, Optical base card, Power supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped excluding Optical Interface & Tributary cards. Also Dismantling of 132 KV S/s equipment like Transformer, CT, PT etc. Above work in a single award on turnkey/partial turnkey basis which must be in satisfactory operation for at least 1 (one) year from last date of submission of present bid as per IFB.
17	Civil Works	Bodhjungnagar	Landscaping, land development, reinforced wall, common buildings, industrial sheds, Common Public Toilet, Driver Rest Room, Weigh Bridge, Bus Shelter.
18	Civil Works	Bodhjungnagar	Boundary wall and Security works (Integrated Command & Control Centre, Video Wall, Server & Storage, Surveillance Cameras (PTZ & Fixed), P2P (Pair to Pair wi-fi system), Access control system, Environmental sensor, 50KVA DG Set, Fire & Safety System, Watch Tower).
19	Civil Works	Bodhjungnagar	Rainwater Harvesting, Water supply (Deep Tube Wells, OH Tank,), Pump house & Sump House, Raw water & Distribution Pipe Line, Refurbishment of existing Sump & OHT and effluent management (Restoration of existing 500 Kld CETP to its full capacity i.e. viz. restoration of Bio Towers, Activated carbon filter & Pressure sand filter, construction of new flash mixing tank, common sludge tank, aeration tank).
20	Civil Works	Dhajan Nagar	Road (Rigid Pavement) and Storm water drainage & Culvert (Concrete), Land development, Water supply (Deep tube well, Water sump, OHT, Iron removal plant, Pump house, water pipeline etc., Industrial sheds, Common facilities centre, Common public toilet, ITI workshop, Transit Hostel, Boundary wall, Weigh bridge, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., OFC, Fire & Safety system, Watch tower).
21	Civil Works	RK Nagar	Road (Rigid Pavement) and Storm water drainage & Culvert (Concrete), Land development, Water supply (Deep tube well, Water sump, OHT, Rapid sand gravity filtration plant, Pump house, water pipeline etc., Day care centre, Common public toilet, Food Kiosk, Boundary wall, Weigh bridge, Bus shelter, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., OFC, Fire & Safety system, Watch tower) Environmental sensors.
22	Civil Works	Nagichera	Road (Rigid Pavement) and Storm water drainage & Culvert (Concrete), Land development, Water supply (Deep tube well, Water sump, OHT, Iron removal plant, Pump house, water pipeline etc., Day care centre, Common public toilet, Food Kiosk, Boundary wall, Weigh bridge, Security (CCTV camera, Control room, LCD display, NVR & storage, UPS Back up etc., OFC, Fire & Safety system, Watch tower).
23	Goods Package	R.K Nagar & Bodhjungnagar	Purchase of CNG Buses and Battery Operated Vehicles

III. SCOPE OF SERVICES

8. PMSC role is to assist and advise PMU/PIU of TIDCL to carry out the improvements on ground meeting good standards of construction (including any design changes), project management with monitoring, contract management and supervision, management of environmental and social impacts, commissioning, operations and defect liability, training and capacity development, communication, and stakeholder management, to develop best in class industrial infrastructure improvement including (i) landscaping & land development, (ii) roads and storm water drainage (iii) power distribution network including sub-stations (iv) water supply network (v) waste, sanitary and effluent water drainage, treatment and management (vi) industrial waste management (vii) social infrastructure, common building facilities & industrial sheds (viii) solar power plant; and (ix) internal safety and security etc. related works and strengthening institutional and financial capacities of DOIC and TIDCL, and its operational services improvement and supervision in execution of the work under the project.

9. The scope of services includes carrying out the following main Tasks:

Task 1: Project Management

- identify project management needs, planning, strategies, and schedules for execution;
- design and establishment of a project performance management and evaluation system (PPMES), integrated with Financial Management System (FMS) to monitor and evaluate implementation of the project;
- vetting of design, suggesting any design changes;
- review the quality assurance and quality control (QAQC) manual, operation and maintenance (O&M) manual, and project financial management manual prepared under Tripura Industry PRF project and refine them, if required, to ensure—quality assurance and quality control and preparation of quality assurance plan (QAP) and quality assurance manual (QAM) that will assist PMU & PIUs with overall quality assurance of all aspects of project during project implementation;
- advising and assisting the PMU-TIDCL and respective-PIUs, and ADB in the efficient coordination of the various contract packages;
- review of project implementation schedule, procurement plan and timely delivery of project in a cost effective manner of highest standard towards achieving the designed project outcome and the resultant project impact as stipulated in the project DMF;
- ensure timely and quality implementation of the gender assessment and action plan (GAAP);
- advising TIDCL of most appropriate and effective organizational, fiscal, implementation and management arrangements;
- establishing and maintaining appropriate fiscal management and monitoring systems, and assist PMU-TIDCL and respective-PIUs in fiscal management and monitoring project expenditures and disbursements, billing, retention amount, PBG, Liquidated Damage, AMC, defect liability period, etc., in line with the contract award and disbursement plan (CADP) stipulated in the project administration manual (PAM) of the project;
- coordination with stakeholders; facilitating regular meetings, documentation of Minutes, preparing briefing material and generally guide TIDCL/DOIC for effective management and implementation of the project;

- assisting the respective-PIUs to recruit/ tender and evaluate bid documents of subproject contract packages' works and/or goods/ plant/ equipment contracts;
- assisting the respective-PIUs with planning and implementing any other activity related to design, construction, and commissioning (including, if felt required, assisting PMU-TIDCL in any resolving of decision making for such activities);
- ensure that the Contractor delivers its EHS obligations under its contract;
- assisting with general project administration, performance and monitoring, and preparation of project reports, preparation of all project monitoring reports;
- preparing the draft project completion report (PCR) in a manner satisfactory to the Client and ADB;
- coordinate with and provide all support to other Consultants working for the project under PMU-TIDCL and respective-PIUs, and to ADB TA consultants/ TA consulting firms at PDU, INRM;
- updating TIISDP project documents, including assistance in updating project-related finance/ accounting documents and in ensuring that proper filing system is maintained for filing of overall project documents at PMU-TIDCL and respective-PIUs;
- supporting visiting missions from ADB or others.
- project management as per the provisions of ensuing project's loan and project agreements, project administration manual (PAM), DMF, and any other governing documents of the Employer/ ADB guidelines.

Task 2: Contract Management and Construction Supervision⁴

- assist respective-PIUs with design review and recommendation for contract packages that are based on the Client's design with due consideration to "best in class infrastructure perspective;
- issue of drawings as bid-level working drawings and/ or good for construction working drawings, contract management, construction supervision and quality control including quality material, standard and specification of construction material in execution of contract packages as prescribed in the contract and adherence to norms and procedure of prudent construction;
- supervising all goods, works, surveys, field studies, investigations, any new designs;
- The PMSC shall be responsible for documenting all the design drawings, reports, "as-built" drawings, and construction monitoring and quality certificates. The PMSC shall also carry out the actual documentation and filing of the design drawings, reports, any events, "as-built" drawings, quality monitoring certificates, etc., as document records;
- include operation and maintenance (O&M)-embedded construction contract packages combining any new designs [e.g., design by PMSC, or design of EPC/ DBO Contractor]/ refinement in designs (as felt required), construction, and O&M for a period of 5 years or more as suitable in contracts;
- support the TIDCL's O&M responsibility and improve the quality-of-service delivery by providing continuity in system operation as well as O&M. PMSC

⁴ Water supply contracts are hybrid, partly DB and partly item rate with operations clubbed.

shall be responsible for monitoring and certifying the performance of the Contractors during O&M under the project implementation period.

- act in the capacity of “the Engineer and / or the Project Manager” and represent the Client in the construction contracts.
- ensure the timely approval of Contractor’s any new designs/ refinement in designs (as felt required) from the client; monitor the progress of the works and facilitate resolution of any problems in planning, scheduling, and materials management, while timely issuing/ facilitating issuance of site order instructions in the interest of smooth execution of subproject contract packages; initiate the testing laboratory as well as in-situ tests as necessary; enforce specified materials, workmanship requirements, construction methods, and control the quality of materials and overall quality of construction; facilitate timely verification of BOQ for the Contractor’s billing/ claims processing purposes; etc. This includes the assessment of programs, approving process of materials, labour, suitable construction methods (including any innovative methods required as per site conditions), and monitoring compliance with specified and agreed construction methods (in case of any revision). The PMSC team will carry out acceptance tests of equipment in the factory (if necessary) and on-site; including any installation and commissioning (where applicable). It also comprises supervision of Contractors’ programs for construction work, material, and labour scheduling; suitability of construction methods; contract package work component-wise rate of progress; performance testing; compliance with the design specifications and conformance to the issued working drawings; compliance with environmental, health and safety requirements (under EHS obligations specified in the contract); etc.
- In case of anticipated cost overruns, the PMSC shall immediately inform the Client and suggest mitigation measures, wherever possible.

Task 3: Management of Environmental and Social Impacts

- ensure that the necessary applicable provisions and all recommendations from initial environmental examination (IEE) reports including environmental management plans [EMP, including health and safety management plan (HSMP)⁵] are incorporated in the design and civil work specifications prepared for implementation under the project and included in the bidding documents of subproject contract packages for execution at site as per respective-Contractor’s contract;
- As the services include the supervision of civil works, the PMSC team is responsible for all aspects of Environment, Health, and Safety reporting under EHS obligations.

Task 4: Training and Capacity Building Requirement

- strengthen institutional and financial capacities of DOIC and TIDCL;

⁵ HSMP updated as site-specific health and safety management plan (SSHSM), which takes into account COVID-19 related health and safety risks (i.e., with HS COVID-19 Plan) should be developed in accordance with the Borrower’s policy, legislation and regulatory requirements on COVID-19 prevention and control, and should be approved by the Employer prior to mobilization of site work, with information to ADB. In the absence thereof, the HS COVID-19 Plan should be updated in accordance with international good practice guidelines [ADB Sustainable Development and Climate Change Department (SDCC) Good Practice Advisory Note: *Protecting the Safety and Wellbeing of Workers and Communities from COVID-19 Risks in ADB-funded Projects*, 21 July 2020, as amended from time to time].

- capacity building activities; (on-the-job training sessions for construction supervision and contract management;), and any other consulting and non-consulting services packages [including their procurement process through appropriate selection methods (as applicable).

Task 5: Commissioning, Operation and Defects Liability

- The PMSC consulting firm will assist respective-PIUs with commissioning and operation phases. It will involve building capacity within respective-PIUs to manage the project facilities. Commissioning covers initial operation to identify and rectify any construction faults prior to the Contractor's official handover of completed systems to the Client. Commissioning will be progressive over the final year of individual contract package implementation. The PMSC team, with the Contractor/ Supplier, will identify specific facilities needed, expertise and staffing requirements, and prepare detailed management, operation, and maintenance (MOM) procedures, including those relating to minimizing impacts on environmental, social, and GESI aspects of all infrastructure developed under the project. The MOM procedures should be developed in consultation with all the respective stakeholders;
- the PMSC needs to continue to provide appropriate advice and include in the contract conditions in the bid documents the suitable provision of the 5-year or more maintenance-based contract packaging [with more than 1-year defect liability period (DLP)], as felt required.

Task 6: Communications

- The PMSC consulting firm will support the PMU-TIDCL and respective-PIUs with managing communications during implementation of the project.

10. Main deliverables are summarised in Table 2.0

Table 2.0: Deliverables

Tasks	Deliverables
Task 1: Project Management	Inception Report (with QAP/ QMP), Integrated PPMES/ FMS as an MIS/ IT-based tool and a web-based system, Management-level summarized monthly progress report, Quarterly progress reporting, Yearly progress report (financial year), Mid-term Report (as per missions fielded by ADB), Final Report of the project, Briefing reports, Draft PCR of EA/ IA, Review of QAQC manual, O&M manual, and project financial management manual, Review of all designs (Employer's design) with DPRs and supporting documentation, and awarded contract documentation with good for construction working drawings, and draft contract

	<p>management plans; including for remaining priority subproject contract package(s), review of the procurement plan and its analytical base of the strategic procurement planning (SPP) study report and updating of it.</p> <p>All documentation on any new designs and/or review of EPC/ DBO Contractor's designs (if applicable),</p> <p>MOM Manuals,</p> <p>Specific reports for the proposed follow-on loan documentation,</p> <p>Non-Report type item.</p>
Task 2: Contract Management & Construction Supervision	<p>Construction supervision manual,</p> <p>Health and safety manual,</p> <p>Monthly progress report,</p> <p>Annual progress reports,</p> <p>Health and safety reports,</p> <p>Claim reports,</p> <p>Tender documents,</p> <p>Special reports.</p>
Task 3: Management of Environmental and Social Impacts	<p>Environmental Monitoring Reports,</p> <p>Social, GESI and Grievance Monitoring and Evaluation Reports,</p> <p>Financial management and monitoring reports,</p> <p>Project website,</p> <p>Photographic and video-diary presentation.</p>
Task 4: Training & Capacity Building Requirements	<p>Capacity building activities for strengthening institutional and financial capacities.</p>
Task 5: Commissioning, Operations & Defects Liability	<p>Contract packages contract completion reports,</p> <p>Certificates,</p> <p>Final reports of the subproject contract packages' civil works contracts,</p>
Task 6: Communications	<p>Communications strategy and its implementation.</p>

The ensuing project TIISDP is under preparation and loan signing is expected in fourth quarter of calendar year (CY) 2024. The duration of the assignment is 60 months (5 years) from the signing of the contract (tentatively from December 2024 to November 2029).

III. EXPERTS REQUIRED

For the PMSC, a total of 2497 person-months including 266 person-months of national key experts; and 2213 person-months of support staff would be required to be mobilized by the consulting firm during the assignment. The indicative team composition of PMSC covering key experts is in Table 3.0.

Table 3.0: Indicative Team Composition of Key Experts

S. No.	Expertise	Positions	Input (Person Months)	Input Requirements
A.	National Key Experts			
1	Project Management Expert (Team Leader)	1	55	Full-Time
2	Electrical/ Power Systems Engineer (Deputy Team Leader)	1	30*	Intermittent
3	Water Treatment and Process Engineer	1	4**	Intermittent
4	Effluent and Wastewater Management Expert	1	4**	Intermittent
5	Quality Control Expert	1	20*	Intermittent
6	Procurement-cum-Construction Contract Management Expert	1	30*	Intermittent
7	Environmental (Safeguards and Climate Change) Expert	1	25*	Intermittent
8	Social Safeguards Expert	1	15*	Intermittent
9	Gender Equality and Social Inclusion (GESI) Expert	1	25*	Intermittent
10	Financial Management Expert	1	20*	Intermittent
11	Communication and Documentation Specialist	1	20*	Intermittent
12	Legal Expert	1	10*	Intermittent
13	Road and Storm water Drainage Expert	1	4*	Intermittent
14	Water supply Expert	1	4*	Intermittent
	Sub-Total	14	266	
B.	National Support Staff			
1	Construction Management Expert (Support) [1-Agartala]	2	110*	Full-time
2	Construction Management Expert (Support) [2-Agartala]	2	90*	Full-time
3	Construction Management Expert (Support) [3-Dharmanagar]	1	35*	Full-time
4	Construction Management Expert (Support) [4-Udaipur]	1	35*	Full-time
5	Construction Supervisor (Civil) [1-Agartala]	2	110	Full-time

S. No.	Expertise	Positions	Input (Person Months)	Input Requirements
6	Construction Supervisor (Civil) [2-Agartala]	2	110	Full-time
7	Construction Supervisor (Civil) [3-Dharmanagar]	1	35	Full-time
8	Construction Supervisor (Civil) [4-Udaipur]	1	35	Full-time
9	Construction Supervisor (Road/ Pavement) [1-Agartala]	1	55	Full-time
10	Construction Supervisor (Road/ Pavement) [2-Agartala]	1	45	Full-time
11	Construction Supervisor (Road/ Pavement) [3-Dharmanagar]	1	35	Continuous
12	Construction Supervisor (Road/ Pavement) [4-Udaipur]	1	35	Continuous
13	Construction Supervisor (Electrical) [1-Agartala]	2	40	Continuous
14	Construction Supervisor (Electrical) [2-Agartala]	2	30	Continuous
15	Construction Supervisor (Electrical) [3-Dharmanagar]	1	6	Continuous
16	Construction Supervisor (Electrical) [4-Udaipur]	1	6	Continuous
17	Construction Supervisor (Electro-Mechanical)	1	6	Continuous
18	Design Engineer (Electricity Supply/ Street Lighting/ Solar Plant)	1	6**	Intermittent
19	Design Engineer (Water Supply)	1	4**	Intermittent
20	Design Engineer (Road/ Pavement)	1	4**	Intermittent
21	Design Engineer (Storm water Drainage)	1	4**	Intermittent
22	Design Engineer (Industrial and Solid Waste Management)	1	4**	Intermittent
23	Design Engineer (Water/ Wastewater Management)	1	4**	Intermittent
24	Electro-Mechanical Engineer (Water/ Wastewater System)	1	4*	Intermittent
25	Structural Engineer (Civil)	1	2**	Intermittent

S. No.	Expertise	Positions	Input (Person Months)	Input Requirements
26	Structural Engineer (Mechanical)	1	2**	Intermittent
27	Landscape Architect	1	2*	Intermittent
28	Junior Architect (Industrial Facility/ Infrastructure)	1	2*	Intermittent
29	Environment Safeguards Expert (Support)	1	25*	Intermittent
30	Social Safeguards Expert (Support)	1	25*	Intermittent
31	MIS/ IT Expert	1	10*	Intermittent
32	SCADA Engineer	1	2**	Intermittent
33	GIS Analyst	1	5*	Intermittent
34	Quantity Surveyor (1-Agartala)	1	55	Full-time
35	Quantity Surveyor (2-Agartala)	1	45	Full-time
36	Quantity Surveyor (3-Dharmanagar)	1	35	Full-time
37	Quantity Surveyor (3-Udaipur)	1	35	Full-time
38	Office Manager-cum-Accountant	5	275	Full-time
39	ACAD Draughtsman (1-Agartala)	1	55	Full-time
40	ACAD Draughtsman (2-Agartala)	1	45	Full-time
41	ACAD Draughtsman (3-Dharmanagar)	1	35	Full-time
42	ACAD Draughtsman (4-Udaipur)	1	35	Full-time
43	Data Processing and Reprographic Operator	5	275	Full-time
44	Office Assistant	5	275	Full-time
45	Environment Safeguards Expert (Support)-PMU	1	35*	Full-time
46	Gender Equality and Social Inclusion (GESI) Expert (Support) -PMU	1	20*	Full-time
47	Financial Management Expert (Support) -PMU	1	35*	Full-time
48	Project Supervisor -PMU	1	35	Full-time
	Sub-Total	66	2213	
	Grand Total (A+B)	80	2479	

S. No.	Expertise	Positions	Input (Person Months)	Input Requirements
ACAD = computer-aided design and drawing software (by Autodesk), GIS = geographic information system, IT = information technology, MIS = management information system, SCADA = supervisory control and data acquisition.				

Notes:

Experts with '*' shown with respect to person months must provide minimum 80% field inputs. Those with '**' must provide minimum 50% field inputs. Rest, to provide 100% field inputs.

IV. OTHER RELEVANT INFORMATION

A. General Requirements

11. For the proposed PMSC consulting services package, a qualified and experienced national consulting firm is proposed to be procured on quality- and cost-based selection (QCBS) method with quality-cost ratio of 80:20. The PMSC recruitment will be undertaken in accordance with the ADB Procurement Policy: Goods, Works, Non-consulting and Consulting Services (2017, as amended from time to time) and Procurement Regulations for ADB Borrowers: Goods, Works, Non-consulting and Consulting Services (2017, as amended from time to time); and the ADB Guidance Note on Procurement–Consulting Services Administered by ADB Borrowers (June 2018, as amended from time to time).⁶

12. The interested firms/organizations should submit their EOI on ADB Consultant Management System (CMS) website (<http://cms.adb.org/>). EOIs submitted in other than the EOI standard template online will be considered as non-responsive, and will not be evaluated. The project reference sheets to be filled-in and provided as EOI attachments, is at Attachment 1. EOI standard template can be obtained/downloaded for reference from ADB website. The detailed terms of reference (TOR) will be provided to shortlisted Consultants at the RFP stage.

B. Government Inputs

13. TIDCL through its PRF Consultant and ADB have prepared the DPRs, Safeguard documents, bid documents, drawings, and other information to support the preparation of this Project. Shortlisted firms may review them at the Employer's office in Agartala with prior appointment. Shortlisted firms may also download copies of available digital reports and documents of the project which are accessible through TIDCL and ADB websites.

14. The State's EA for PMSC; the DOIC, GoT, acting through IA–TIDCL; and the participating stakeholder authorities/agencies will provide suitable and adequate strength of dedicated counterpart staff deployed to work in the PMU & PIUs/TIDCL. The TIDCL/DoT in consultation and coordination through PMU, would also facilitate the PMSC in necessary coordination/data collection with other line agencies/departments/stakeholder authorities. The actual disposition and number of counterpart staff will be determined together at the time of contract negotiation process with the PMSC.

⁶ Available at: <https://www.adb.org/documents/adb-procurement-policy>; and <https://www.adb.org/documents/procurement-regulations-adb-borrowers>.

Attachment 1: Project Reference Sheets

[Using the format below, provide information on each assignments for which your firm, and each joint venture partner or sub-consultant for this assignment, was legally contracted either individually as an entity or as one of the major companies within a joint venture or sub-consultancy, for carrying out consulting services similar to the ones requested under this assignment. Use a maximum of 10 pages indicating 10 reference projects from last 10 years.]

Project or Assignment Name/Title :			
Country Location:		Location within Country:	
Approx. Value of the Contract (in \$/ €/ INR):		Duration of Assignment (in months):	
Name of the Client:			
Address and Contact Details of the Client:			
Participation (✓ applicable):	<input type="checkbox"/> As Lead Firm	<input type="checkbox"/> As Associate Firm	<input type="checkbox"/> As an Individual
Total No. of Person-Months of the Assignment:		Approx. Value of the Services Provided by your Firm under the Contract (in \$/€/INR):	
Start Date of Assignment:		End Date of Assignment:	
Name of Joint Venture Partner or Associates, if any:	No of Professional Person-Months provided by JV Partner/Associates:		
Name of senior regular full-time employees of your firm involved and functions performed (indicate most significant profiles such as Project Director/ Coordinator, Team Leader):			
Narrative Description of Project/ Assignment:			
Description of Actual Services Provided in the Assignment:			
Name of the Firm/Entity:			
Signature of the Authorized Representative of the Firm:		Name of Representative:	
		Designation:	