

SCOPE OF WORK

1.0 BRIEF ABOUT RECPDCL AS PROJECT IMPLEMENTATION AGENCY IN UT OF LADAKH

REC Power Development and Consultancy Limited (RECPDCL) has been appointed as the Project implementing Agency (PIA) for the “Construction of 02 nos. 220 kV Transmission Lines (Phyang to Diskit) and (Drass to Padum) and 02 nos. 220/33 kV, 50 MVA GIS substations along with 220 kV bay extension in the UT of Ladakh” under the PMDP-15 Scheme. RECPDCL is responsible for project execution, monitoring, and coordination with all stakeholders to ensure timely completion. Notification of Awards (both Supply of Goods & Supply of Services) for turnkey works was issued to all EPC agencies on 18.06.2021, followed by the execution of Contract Agreements on 29.07.2021. The details of the awarded work are summarized below:

S. No.	Region	Project Details	Package Details
1	Nubra Valley	220kV Transmission Line-01 (Phyang to Diskit)	TL Pkg-01 (Phyang to North Pullu)
2			TL Pkg-02 (North Pullu to Diskit)
3		220kV GIS Substation including bay extension	SS Pkg-02 (Diskit & Phyang extn.)
4	Zanskar Valley	220kV Transmission Line-02 (Drass to Padum)	TL Pkg-03 (Drass to Kochik)
5			TL Pkg-04 (Kochik to Rangdum)
6			TL Pkg-05 (Rangdum to Padum)
7		220kV GIS Substation including bay extension	SS Pkg-01 (Padum & Drass extn.)

2.0 SCOPE OF WORK:

Objective: In line with the project implemented by RECPDCL in Ladakh region, it has been brought out by the Wildlife Warden following locations has been flagged under the Wetlands (Conservation & Management) Rules, 2010 since the construction is being performed in the vicinity of Wetland area.

Tower Location No.	Package	Site	Latitude	Longitude	Issue
AP-1090	Package-4	Rangdum	34.0558° N	76.3249° E	Tower erected in vicinity of wetland boundary
AP-2008	Package-5	Penzilla Top	33.8678° N	76.3553° E	Foundation cast in vicinity of Twin Lakes, within 50m of high flood level

The scope of work of the selected agency is to Prepare a comprehensive mitigation plan to minimize the impact on wetlands as per stipulated guidelines, Identify and recommend legal and regulatory compliance measures to mitigate the issue, Liaise with Wildlife, Forest, and Environmental authorities to ensure compliance and facilitate the clearance process in

obtaining necessary approvals/clearances/ NOCs from relevant Central/State/UT government agencies, preventing project delays i.r.o transmission projects in UT of Ladakh under PMDP-15 scheme

The selected agency is to develop a robust, legally & regulatory compliant and practically implementable Mitigation plan for transmission line towers located in close proximity to wetlands in the Ladakh region. The plan must balance the twin imperatives of infrastructure development and ecological conservation, ensuring that the project proceeds without violation of statutory norms while safeguarding fragile high-altitude wetland ecosystems.

The consultancy has to achieve the following detailed objectives:

- a. To conduct detailed ecological and hydrological assessment of identified wetland areas and accordingly preparation of site-specific mitigation measures that are technically feasible, legally & regulatory compliant, cost-effective and environmentally sound, covering both the construction and operational phases of the transmission line.
- b. Review of all relevant legal requirements, including MoEFCC guidelines, Wetlands (Conservation and Management) Rules, 2010, Forest Conservation Act, Wildlife Protection Act, and any Ladakh/UT-specific regulations.
- c. To provide the project authority with a defensible plan that can withstand regulatory scrutiny and facilitate necessary approvals/clearances/NOCs from relevant Central/State/UT Government agencies.
- d. To identify both direct impacts (disturbance during excavation, foundation work, stringing, etc.) and indirect/cumulative impacts (soil erosion, sedimentation, change in water flow, bird collision risk, waste deposition, community dependence).
- e. Identification of statutory clearances/approvals required, if any, for execution of works in proximity to wetlands and to engage with stakeholders including the Forest Department, local wetland authorities, community representatives, and other regulatory agencies.
- f. To provide an approximate, cost-effective and practically implementable budget for implementation of proposed mitigation measures, including a detailed price breakdown. This budget requires that all work and materials strictly conform to the latest editions of the relevant Central Public Works Department (CPWD) and/or Indian Standard (IS) Specifications.

2.1 Deliverables:

- a) Inception Report with methodology and timelines to complete the work within defined time schedule.
- b) Baseline survey report with maps and GIS data.
- c) Draft Mitigation Plan with detailed site-specific measures and presentation to RECPDCL, Forest Department, UT of Ladakh, MoEF & Climate Change etc. for obtaining the observations/comments (if any).
- d) Submission of Final Wetland Mitigation Plan (including cost estimates, implementation roadmap, resolution of findings etc.).

3.0 BILL OF QUANTITY

S.No.	Description of work	Quantity	Unit	Amount (in Rs) without tax	Applicable (%) percentage tax	Taxes amount (in Rs)	Total amount (in Rs) including taxes
A	B	C	D	E	F	G=E*F%	H=E+G
1	Preparing of comprehensive mitigation plan (mitigation measures) to minimize the impact on wetlands as per attached Scope of Work, Technical Specifications etc.	1	LS			0	0

4.0 PAYMENT SCHEDULE:

- a) Completion of Inception report, Baseline survey with maps and GIS Data: **20%** of total quoted price shall be released after submission & acceptance of inception report with methodology and timeline adopted, site surveys (if required), correspondences/documents of stakeholders' consultations along with copy of the original tax invoice.
- b) Submission and acceptance of Draft Mitigation plan: **40%** of the quoted price shall be released on submission and acceptance of draft mitigation report with detailed site-specific measures along with presentation to stakeholders (submission of the original tax invoice).
- c) Submission and acceptance of Final Report & Wildlife Approval: **40%** of total quoted price shall be released upon acceptance and approval of final mitigation plan from RECPDCL and other stakeholders (LPDD/Forest Deptt./MoEF&CC etc.) including completion of all activities as per scope of work (submission of the original tax invoice).

5.0 DURATION OF THE CONTRACT:

Duration of the work shall be 6 (Six) weeks from the zero date i.e from date of notification of Award/ Letter of award (T) to successful agency. Total duration of the work shall be as below:-

Milestone	Timeline*
Submission of Inception report after completion of Baseline survey with maps and GIS Data, site surveys (if required) and stakeholder's consultations etc., as applicable.	T+ 2 week
Submission and acceptance of Draft Mitigation report along with presentation to stakeholders	T+4 weeks
Submission and acceptance of Final Report along with wildlife approval along with completion of all activities as per scope of work	T+6 weeks

*T: Date of Notification of Award/ Letter of award issued to selected agency.