FULL TITLE OF THE PROJECT: CONSTRUCTION OF SIUL -IV 4MW SHEP IN TAHSILSALOONI DISTT CHAMBA

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<u>ANNEXURE - A</u> DETAILS ABOUT PROJECT

PROJECT HIGHLIGHTS

Location of Project

Tahsil Salooni, Distt Chamba in Himachal Pradesh

Beneficiary States

Himachal Pradesh

Project Cost

Rs. 3850 Lakh (including land cost)

BACKGROUND

Himachal Pradesh is a small hilly state in the northern part of India located in the western portion of the Great Himalayan Mountain Range. It is bounded by the State of Jammu-Kashmir to the north, Tibet to the east, and the plains of northern India to the south and west, with a population of about 6 million. The state has five major rivers flowing through it, namely Satluj, Ravi, Beas, Chenab and Tons (Yamuna). Hydro power potential of the order of 21,000 MW has been identified for development from these five rivers and their tributaries. The Ravi River is one of the major rivers of the Indus basin draining this region, originating in the Dhauladhar ranges of the Himalayas at elevation of 5800 m above mean sea level. The river is formed by four major tributaries in the head reaches namely Kalihan, Budhil, Tundah & Siul.

As part of this initiative, Government of Himachal Pradesh has awarded Siul-IV Hydroelectric Project (04 MW) to "FRIENDS HIM ENERGIES" Jail Road Tehsil & Dist. Gurdaspur - 143521 through the HIMURJA for developing and implementing the project in Himachal Pradesh. "FRIENDS HIM ENERGIES" has appointed Versatile Power Solutions as their Technical consultant for preparation of Detailed Project Report (DPR) of Siul-IV Hydro Electric Project (04 MW) Himachal Pradesh.

The State Power Development Corporation has proposed to develop hydropower project on Siul, a tributary of River Ravi, of District Chamba. A Detailed Project report has been prepared after the study of the hydrology of the Siul River & topography of the area. On the basis of available Hydrology, the installed capacity works out to be 4 MW.

A. Location of the Project Area

The project is located in Chamba District of Himachal Pradesh. The project site is about 85 kms from Chamba (district headquarter) and about 85 kms from Dalhousie. The nearest broad gauge railway station is about 145 kms, at Pathankot.

The location of the weir site is at 32°48′31″N and 75°55′08″ E. All the proposed components of the project are easily approachable using access roads of few kilometres to be constructed during construction stage.

B. Project Scheme

Siul-IV Hydro - electric project is essentially a run of the river development scheme on Siul nala in Chamba District of Himachal Pradesh and it is an immediate upstream development of Siul-I Hydro - electric project, which is under construction. The proposed scheme envisages diversion of Siul inflows at about 200 m downstream of confluence of Siul and Sangini through a trench weir and will be led to a surface de-silting tank located on left bank of Siul river. The silt free water from de-silting tank will be lead to forebay through a 1.455 km long headrace tunnel of size 3.0 m modified D – shaped. The water from forebay will be led to power house through a 1.75 m dia. approximately 124 m long penstock bifurcating near power house to feed two no. of horizontal axis Francis turbine driven generating units in a surface power house on left bank of Siul nala. The broad Project details are summarized as under:

Location:

: District Chamba, HP

Available Gross Head:

: 65.70 Mts

Rated Discharge:

: 7.40 Cumecs

Design Head corresponding to the above discharge: 62.33 Mts.

Total installed Capacity:

: 4 MWs (2 x 2.0 MWs)

Horizontal Axis Francis Turbine having synchronous generators directly coupled with turbines are proposed. Power shall be generated at 3.3 KV, stepped-up to 33 KV & interconnected to 33 KV sub-Station at Salooni about 8 Km from Power House near village Digodi.Cost of transmission line upto Siul shall be bore by the developer and cost of transmission line from Siul I to Salooni shall be bore by contributed developers.

Project Cost:

Rs. 38.50 Crore Rs

Cost per MW:

Rs. 9.62/ Crore Rs/MW

Dated 28-7-2018

Place Saloni

Church Forest Division

M/S Friends Him Energies