



KOLKATA PORT TRUST

Hydraulic Study Department

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योजना विभाग / Planning Department

कोलकाता बंदर नगर
Kolkata Port Trust

Sl. No. 2943/3DPR/11
Date: 22/12/16

No. Hyd/ 8006.III/1311

Date: 19.12.2016

The Director,
Central Water & Power Research Station,
P.O. Khadakwasla,
Pune - 411024

Sir,

Attn : Mr. T. Nagendra, Scientist-E

Sub : Mathematical Model studies for simulation of siltation in
the approach channel leading to HDC on long-term basis

Ref : Your offer No. PH II/2016/TC871 dt. 20-09-2016

Your offer under reference for undertaking the studies as detailed in the 'Scope of Work' through Mathematical Model installed at CWPRS, Pune, has been accepted by the Kolkata Port Trust (KoPT) administration at a cost of Rs. 8,53,360/- (Eight lakh fifty-three thousand three hundred & sixty only) plus Service Tax as applicable.

The Service Tax component will be paid by KoPT and as desired in your letter under reference, the copy of the challan of the Service Tax will be submitted to CWPRS, Pune in due time.

You are now requested to take up the subject study as per the Scope of work given below. The basic data which will be required during the model run will be supplied by KoPT.

For any clarification regarding the subject work, Sri S. Mukhopadhyay, Dy. Director may be contacted in his mobile No. +919674720102.

Scope of Work:

- To find out the impact of siltation in regard to navigability on the most critical areas of shipping channel leading to HDC as per existing conditions.
- To analyse the time series hydrological data and study the change in the depth in navigation channel in the Haldia - Jellingham region.

- To conduct a Time domain morphological model study (Mathematical model) of the Haldia – Jellingham region on long-term (5 to 10 years) basis and assess the impact for projecting the riverine conditions in terms of assessable hydraulic / hydrological parameters.

The above study may be taken up with different combinations of dredging scenario over Jellingham, Haldi river confluence / Silt trap dredging, Lower Auckland bar (Upper part) and Eden channel

Time-frame of the Study:

Two (2) months after deposit of the full amount and supply of data to CWPRS.

Terms of Payment:

Rs. 8,53,360 (excluding Service Tax) will be deposited to CWPRS through e-payment.

Deliverables:

The Final Report (ten nos. hard copies) & one soft copy should contain the following:

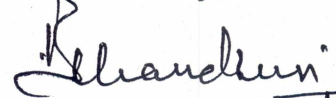
- a) Expected efficacy of the navigational channel leading to Haldia at different time period.
- b) Rate of siltation at different conditions of dredging combinations over different years at critical locations.
- c) Details analyses of the Time domain morphological study with corresponding result, comments / observations for different conditions of dredging combinations.

This may please be treated as the formal Work Order.

Kindly acknowledge the receipt of this letter as a mark of acceptance and arrange to return a signed copy of the same.

You may be required to present the report before different statutory bodies like Board of Trustees', Technical Advisory Committee of KoPT, Ministry of Shipping etc. You are also requested to impart technical guidance and support to KoPT in regard to the subject study.

Yours faithfully,



(B. Chaudhuri)
Chief Hydraulic Engineer

19/12/2016