

1/N

Annex - I

21/2

No. CP/HSO/245

Government of Goa,
Captain of Ports Department,
Panaji, Goa - 403 001
Dated : 12th January, 2016

OFFICE NOTE

Subject: PROPOSAL FOR SETTING UP OF TEMPORARY FLOATING PONTON JETTIES (ECO - FRIENDLY) IN RIVERS MANDОВI AND CHAPORA IN PHASED MANNER UNDER THE GOA STATE GOVERNMENT & THE CENTRAL GOVERNMENT FUNDING SCHEME (50 % - 50 %) DURING THE FISCAL YEAR 2016-2017.

BACK GROUND:

The state of Goa has about 555 kms. of inland waterways out of which only 255 kms. are navigable through the rivers Mandovi, Zuari and their tributaries. Out of their total length, the better part is being used by the mining and export industry for transportation of Iron ore to the port of Mormugao from the loading points in the hinterlands. If these waterways are properly harnessed they will provide a quick and economical transportation facilities for both passengers and cargo traffic.

With this point in view, the Captain of Ports Department shoulders the responsibility of developmental works of Inland Waterways and Minor Ports of Goa by way of periodical hydrographic surveys, dredging of rivers, maintenance of lighthouses and beacons, providing necessary Navigational Aids to the Vessels, imparting training to the needy students who would like to build their career in Sea, providing landing facilities for both passenger boats and cargo vessels at jetties etc.

It may please be noted that as on date the Captain of Ports Department is constrained in providing sufficient berthing facilities to the vessels and other crafts calling on this Port of Panaji. The existing permanent jetties are not sufficient enough to cater to all the day to day operational requirements of the port.

Therefore, there is an urgent need to create additional berthing facilities within the Inland Waterways in the State of Goa on priority.

P.T.O.

PRESENT PROPOSAL:

It is pertinent to mention here that during the recent visit of Shri. Nitin Gadkari, the Union Road Transport, Highway & Shipping Minister to Goa, the concept of developing the ports infrastructures by providing additional temporary floating jetties to the existing permanent jetties in the Inland Waterways of Goa was mooted at.

Therefore, the Captain of Ports Department now proposes to initiate necessary steps for setting up of temporary floating pontoon (Eco – friendly) jetties in rivers Mandovi and Chapora in a phased manner under the Goa State Government & the Central Government funding scheme (50 % - 50 %) during the fiscal year 2016-2017.

As on date, the Government of Goa has not received any written commitment as regards the aforementioned proposal. However, the same is awaited.

In the mean while, the Government of Goa may like to initiate making necessary budget provisions as per the estimates, as under:

ESTIMATES:

The approximate costs involved for setting up of the Temporary Floating Pontoon (Eco – friendly) Jetty of 100.0 Metres in length X 3.0 Metres wide with proper mooring gears and its associated service points including water supply, fire fighting systems, shore electrical supply and telephone lines, as well as solar lamps is estimated to be at the tune of Rs. 10.0 Crores, each.

The life expectancy of the abovementioned Temporary Floating Pontoon Jetty is expected to be for forty years.

SPECIFICATIONS OF THE PROPOSED FLOATING JETTIES:

Schedule of Technical Requirements (SOTR) for Floating Jetty Systems for Vessels up to about 20m/65ft Length Overall (LOA).

To achieve the best combination of utilisation, durability, sea-worthiness, safety, and low maintenance, plus the ability to be moved/re-located (if ever required), floating jetties shall meet the following specifications.

Ser.	Specification	Rationale
1	The jetty shall be constructed of reinforced concrete .	To ensure stability and sea-worthiness, zero corrosion / low maintenance, and safety.
2	The concrete shall be reinforced with hot-dipped galvanised steel, stainless steel, or other non-corroding material .	To ensure that the reinforcement does not corrode and cause failure of the concrete.
3	The deck of the jetty shall be plain concrete with an anti-slip finish .	To ensure safety even during wet conditions.
4	A minimum of 2No. under-deck utility ducts shall be provided along each side of the jetty .	To accommodate any water, electricity, and fuel services.
5	All connecting parts and all cast-in components shall be of stainless steel .	For strength and non-corrosion.
6	5t mooring cleats or bollards, directly connected to the main structure of the jetty and suitable for ropes up to	For mooring boats.

	24mm diameter shall be provide at no more than 4m spacing along both sides of the jetty. These shall be manufactured from hot-dipped galvanised steel, cast aluminium alloy, or stainless steel.	
7	100mm D-rubber grey fender with aluminium bar insert shall be provided along both sides of the jetty and this shall be directly connected to the main structure of the jetty via cast-in stainless steel sockets.	To fender the boats.
8	A double fixed red, solar powered LED navigation light shall be fixed on a 2.5m high pole at the outer end of the jetty.	To mark the jetty at night.
9	The jetty shall be accessed by a gangway of internal clear width at least 1.0m constructed of marine grade aluminium and fitted with anti-slip decking and having nylon rollers resting on stainless steel running plates on the deck of the jetty.	To provide safe access with low weight. (Gangway length and bankseat arrangements will be determined on a site-by-site basis.)
10	The jetty shall be held in position using either (i) an	To ensure safe positioning of the

	elastic mooring system that shall be totally resistant to corrosion, or (ii) hot-dip galvanised chain of grade 28 or better, or (iii) tubular steel piles. In the case of (i) & (ii), the mooring lines shall not impede the movement of the boats.	jetty against all normal environmental and operational forces.
11	The jetty shall be designed to withstand a constant, everyday wave height of 0.3m from any direction, and an occasional (i.e. storm) wave height of 0.6m from any direction.	To ensure durability and survivability.
12	The jetty shall have a demonstrable design life under normal operating conditions of at least 20 years with minimum maintenance.	To ensure durability and value for money.
13	The jetty shall have an unloaded freeboard in the range 0.5m to 0.7m.	To provide the greatest range of mooring possibilities for boats.
14	The length and width dimensions specified for each jetty are nominal ones and the supplier may offer his proprietary products having slightly different dimensions.	To allow proprietary products to be used.
15	The jetty system shall hold accreditations from	To demonstrate that the jetty system meets recognised quality

16/12

	national and/or internationally recognised classification authorities.	and safety standards.
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Details of all designs and specifications of the pontoons and all their component parts shall be submitted approval.

The proposed jetty units and the mooring system shall have a proven international track record of at least 10 years in similar or harsher environmental conditions.

Any elastic mooring system that is proposed shall have a proven, successful, international track record of at least 10 years in similar or harsher conditions.

CONCLUSION:

The Captain of Ports Department proposes to create additional berthing facilities by setting up of temporary floating pontoon (Eco – friendly) jetties in rivers Mandovi and Chapora in a phased manner under the Goa State Government & the central government funding scheme (50 % - 50 %) during the fiscal year 2016-2017.

However, as on date, the Government of Goa has not received any written commitment as regards the aforementioned proposal.

Subsequently, the proposal for other rivers in the Inland Waterways of Goa would be undertaken.

Simultaneously, the Government of Goa will have to formulate a suitable Budgetary provision under the Goa State Government & the Central Government funding scheme (50 % - 50 %) during the fiscal year 2016-2017.

The file is submitted for Administrative Approval, please.

Office of Secretary	C.O.P.
Inward No.	92-F
Date	12/01/2016

H.S.

[Signature]
12/1.2016

C.O.P.

[Signature]
12/01/16

Secy (Ports)

As per discussion with Hon'ble Chief Minister, Proposal is prepared

for administrative approval please as and when any communication obtained from Govt of India. Same can be taken up for your Personal and necessary approval please.

Hon'ble ~~Minister~~ (Ports) [Signature]
12/1/16
15/1/16

Office of the Minister for
Tourism,
Women & Child
Development,
Producers and Fairs
Government of Goa
Secretariat, Porvorim, Goa
Inward No.: 0101F
Date: 12/1/16

Hon'ble ~~Chief Minister~~

During his recent visit to this state Hon'ble Nitinji Gadkari has suggested to put up proposals for floating jetties on various rivers, and that his Dept would release one crore each to the proposals sent. The proposals for the same need to be sent immediately to get the amt released before 31.03.16

[Signature]
15/1

Cap. of ports. [Signature] To discuss.
22/1/16.

Office of the Minister
Secretariat, Porvorim
Inward No. 15/1/16
Date: 15/1/16

HESS - The study of the possibility to install floating jetties at various location in all the Rivers of Goa has been carried out. A proposal to install around 40 nos of floating jetties is been put up as shown at pages 16/c - 20/c which will eventually send to Ministry of Shipping after Hon. C.M.'s approval.

Captain of Ports Department
Panaji - Goa
Entry No. 81145704623
Date: 19 JAN 2016

Cap: Will prepare a DPR & submit to Ministry. [Signature]
27/1/16.
1/2/16.
HESS -

Captain of Ports Department, Panaji-Goa.

With reference to the noting on the 2/N and remark of the Hon'ble C.M on the pre page 7/N a Detail Project Report has been prepared which may be perused at annexure -"A", for the setting up of four temporary floating jetties (Eco Friendly) in River Mandovi and Chapora in first phase under the Goa State Government Central funding scheme (50% - 50%) during fiscal year 2016-17. In first phase it is proposed to set up following four jetties:-

A. Mandovi River

1. **Floating jetty extension for Captain of Ports jetty at Panaji** :- 100m extension to the newly constructed Captain of Ports at Panaji. As the Structure of the jetty is strait and aligned with the current, it is proposed to moor with chain instead of Piles. The estimate cost of the jetty is 3.5 crs.
2. **Floating jetty at Dempo House - Panaji** :- This jetty is projected in "L - Shape" (Structure of the jetty) with a proposed length of 150tr. outward and 150mtr. to the shore at Dempo House. The jetty will be moored with piles because of the strong current in the Mandovi River . the Estimated cost of the jetty is Rs. 07crores.
3. **Floating jetty extension for Captain of Ports jetty at Old Goa.** :- The Captain of Ports jetty at Old Goa with a length of 49mtrs and floating pontoons of 5mtr. each on the both the sides of the jetty, i.e . it is projected to set up additional 50mts, floating jetty on both the sides of the floating pontoons. Vessels/crafts will have access to the jetty through short gangways connected to the upstream and downstream ends of the fixed structure. Floating jetty could be moored with chains instead of piles as it will be semi-permanent installation. The estimate cost for setting up of this jetty is 4 crores.

B. Chapora River

4. **Floating jetty at Chapora River** :- A floating jetty on the North (left) of bank of the River Chapora, about 400 downstream of the bridge. Proposed length of the jetty is 200mtr i.e 100m long access pier and 100m long berthing pier (L- Shape structure). The estimate cost is Rs. 5.5 Crore.

At point of fact, it is anticipated to set - up forty no's of floating jetties on the various location in all the Rivers of Goa which may be seen at page 19/N, wherein all the optional and suitable sites for inland vessel are map out. However, in first phased it is proposed to set up above mentioned four jetties which are of more significant in nature for development of inland waters of Goa. The jetties are designed based on the climatic condition such draft, River current, approach to

13/L

9/N

jetty point and extension to the pre - exist jetties by mode of floating jetty. The Estimated cost of all four jetties is 20 crores.

In view of the above and based on the noting 7/N, we may now forward the Detail Project Report of above mentioned jetties for approval of Government of Goa and onward submission of DPR to the Ministry of union Road Transport, Highway & Shipping Minister to Goa, in order to avail the benefits under Goa State Government Central funding scheme (50% - 50%) during fiscal year 2016-17.

A DFA letter addressed to Secretary to Ministry of Shipping - India placed at RHS for approval.

Above submitted.

MESS Pachy
19/2/16.

COP submitted for Sec(hd) signature (H.A.)
on RHS. with a DPR annexed.

d
19/2/16.

Section: Portals

COP Pachy
24/2/16

By: Fair copies are placed at RHS.

COP H

Office of Secretary	COP
Invited No.	58016
Date	26/02/2016

By - After necessary Corrections, DFA is resubmitted for approval 26/02/16.

26/2/16 Revised draft for signature please see.

Section: Portals
COP H

H.S.

Captain of Port Department
Panaji - Goa

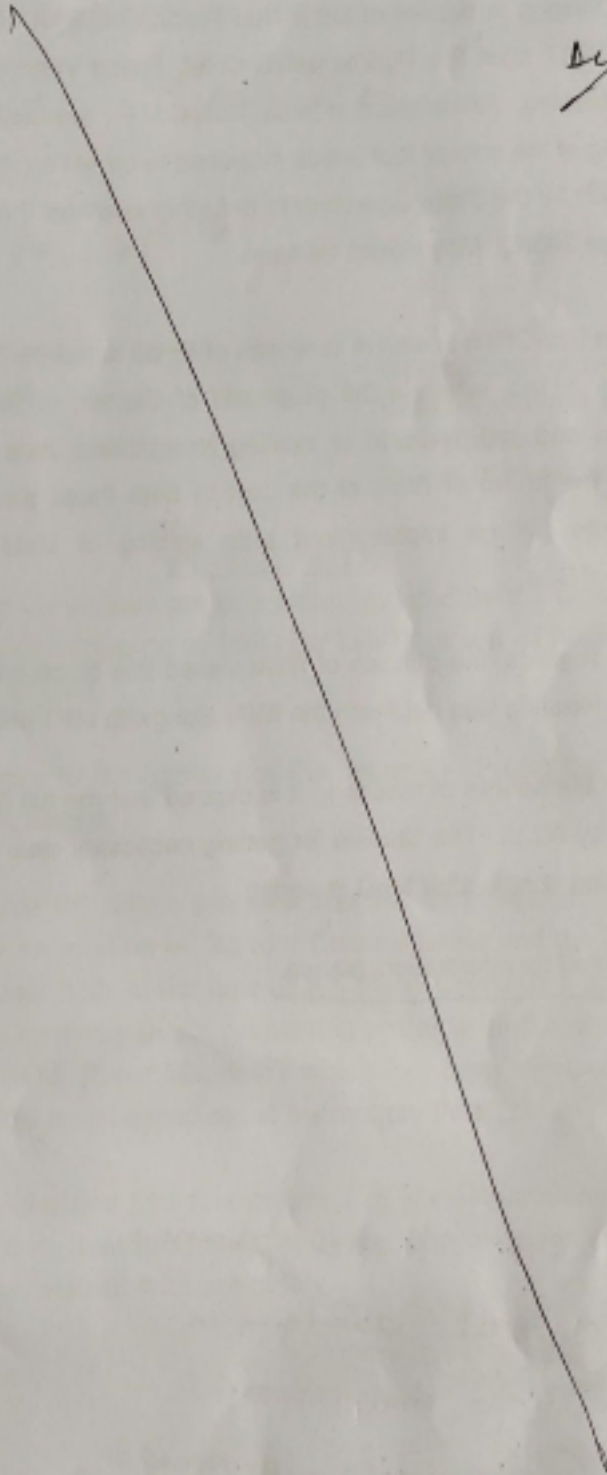
10/12

12/12

Put up latest SWAG proposals for Court information

for
26/1/12

sup - 10/12/10



Dated : 26th July, 2017

OFFICE NOTE

Subject: Details of development proposals of NWs of Goa, regarding...


This Office is in receipt of letter No.CP/HSO/245/PMU106/2016/NW68/25/7/410 dated 21/04/2017 from the Hydrographic Chief, Inland Waterways Authority of India, Ministry of Shipping, Government of India, Noida, U.P., requesting to confirm the extent of part funding of the cost of four jetties proposed to be set up in the rivers Mandovi (68) & Chapora (25) by the State Government to further consider the proposal. The same is placed at page 243/C. May please be seen.


Further this Office is also in receipt of Email dated 06/07/2017. May please be seen at page 261/C. Wherein the proposals of Captain of Ports Department of four floating jetties and improvement of existing Navigational Aids is received in principle approval of the board of IWAI of the cost of both these proposals is 22.67 crores. These Projects will be implemented after signing of MoU with IWAI, MPT and Government of Goa.

In this regards, the officials of IWAI visited this office on 19th July, 2017 where subsequent meeting was held with the IWAI alongwith MPT officials.

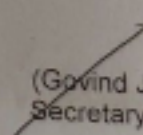
During the course of meeting, it is cleared that the full funding of these projects will be done by IWAI. The Studies for getting necessary clearance such as EIA, CRZ will commenced shortly after MoU is signed.

Submitted for information, please.


(Capt. Premal Sirsaiker)
Dy. C.O.P.


(Capt. James Braganza)
Captain of Ports

① Govt of Goa is also proposed to do Capital dredging in Mandovi for that purpose Govt has also given approval for EIA of Mandovi. As informed by Mr. S.C. Raut that


(Govind Jaiswal)
Secretary (Ports)

Office of Secretary (Ports)

12/N
Goa IWA also proposed to do some work that
why FIA work order was not issued
what is update on that issue?

~~GOI~~ ~~h~~ 01/08/17. by Secy (Ports) remarks. ~~Govt~~ 4
1/8/17

not - for 2/8/17

~~A.S.~~

Government of Goa
Captain of Ports Department
Panaji, Goa.
Dated: 02nd August, 2017

No. CP/HSO/245/

OFFICE NOTE

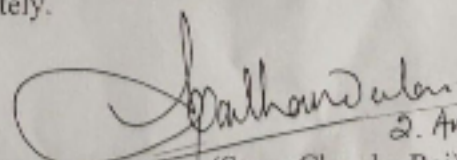
Subject: Clarification on various projects being initiated by the Government of Goa with IWAI, Government of India for Development of National Waterways in the State of Goa.

This has reference to the remarks of the Secretary (Ports) from the bottom of pre-page 11/N to 12/N, above.

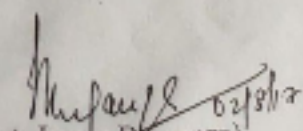
It is clarified that the above proposal ~~for~~ the Development of the National Waterways in Goa by installation of the four floating jetties and the improvement to the existing Navigational Aids at the tune of Rs. 22.67 Crores is a separate proposal and the same does not have any direct connection or link with the proposed dredging in River Zuari (and **NOT** River Mandovi) which has been initiated separately by IWAI through their local nodal agencies i.e. Mormugao Port Trust.

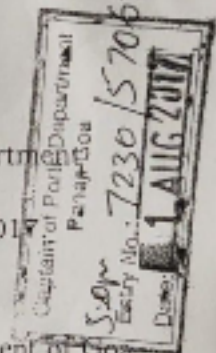
Therefore, it is clarified that this proposal of the Department in this file for installation of the four floating jetties and the improvement to the existing Navigational Aids, may be dealt with separately.

Submitted please.


2. August, 2017
(Sagar Chandra Rai)
Hydrographic Surveyor

Resubmitted:


(Capt. James Braganza)
Captain of Ports



Office of Secretary (Ports)
 File No. 1683/17
 Date: 2/8/17

13/N

- Call a meeting
 with cop and Hydrographer

(Shri. Govind Jaiswal)
 Secretary (Ports)

Survey: S.O. Rai

at 11:00 am 14 Aug in my chamber

~~COP~~

~~h~~ 07/08/17

~~Govind~~
 3/8/17

~~P.A.~~ remind.

~~H.S.~~

~~Smt. Anushka Tendulkar~~
 Sr. Secy

pl. remind.

~~Govind~~
 7/8.2017

~~P.A.~~

Discussed with Secretary (Ports)
 on 14th August 2017. along with
 DCOP.

~~Govind~~
 14/8.2017

~~Govind~~
 14/8/17
 (Govind Jaiswal)
 Secretary (Ports)

~~COP~~

So what has to be placed on record.

~~h~~ 16/8/17

~~H.S.~~

DCOP. - may kindly process further pl.

Office of Secretary (Ports)
 File No. 1683/17
 Date: 2/8/17

14/12

26/2/2020

Ref To/c. list of proposed jetties in
the Island waters of Goa.
We may write to Govt. to

Consider

1) Kiraupani (Tiracol River).

2) Britona (Mandori).

3) Corralim (Zuari).

3b) Shiroda. (Zuari) -

4. & Betul. (Sal. R.) -

5. Verem (Mandori) -

6. Sinqueim (Mandori) -

h
cop -

MECS -

Locations for placing of floating pontoon jetties for Marinas in the Inland rivers /waters of Goa are mention below:-

Sr. No.	River	Taluka	Village wise	length
1.	Tiracol	Pernem	Querim Tiracol Naibag Kiranpani South bank	50 mtrs. 100 mtrs. 25 mtrs. 25 mtrs.
2.	Chapora	Bardez	Morgim Chopdem Tuem Colvale Camurlim Ozarim	50 mtrs 100 mtrs. 25 mtrs. 25 mtrs. 25 mtrs. 25 mtrs.
3.	Mandovi	Ilhas/Tiswadi	Sinquerim Aguada Reis Magos Verem Britona Salvador de Mundo Ecoxim Ribandar Pomburpa Diwar Island Charao Narva Peligao Volvoi	50 mtrs. 100 mtrs. 25 mtrs. 25 mtrs. 50 mtrs. 25 mtrs. 25 mtrs. 25 mtrs. 25 mtrs. 100 mtrs. 100 mtrs. 25 mtrs. 25 mtrs. 25 mtrs.
4.	Zuari	Salcette/Ponda	Cortalim Caranzalem Madkai Quolosuim Rassaim Dhurbhat Raschol Shiroda Xelvona	100 mtrs. 25 mtrs. 100 mtrs. 50 mtrs. 25 mtrs. 100 mtrs. 25 mtrs.
5.	Sal	Salcette	Betul Cavelossim Velim Assolna Carmona	100 mtrs. 25 mtrs. 50 mtrs. 25 mtrs. 50 mtrs.
6.	Talpona	Canacona	Marine Secretary office	50 mtrs.