



KERALA STATE COASTAL AREA
DEVELOPMENT CORPORATION LIMITED
(A Government of Kerala Undertaking)
Makayiram, T.C 16/1709, Ulloor Lane,
Near DPL, Jagathy, Thiruvananthapuram, Kerala
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**INVITES EXPRESSION OF INTERESTS FOR ESTABLISHMENT OF FISH
LANDING CENTERS ON TURN KEY BASIS**

No. 2582/E/KSCADC/2014

18 /09/2014

The Managing Director KSCADC invites Expression of Interests from reputed agencies experienced in establishing Fish Landing Centers on turnkey basis for empanelment with the Corporation. For details visit www.keralacoast.org

Last date and Time of submission of EOI : 04/10/2014 3 PM

Sd/-
Managing Director

**KERALA STATE COASTAL AREA DEVELOPMENT
CORPORATION LTD
THIRUVANANTHAPURAM
(A Government of Kerala Undertaking)**

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Ref. No.No. 2582/E/KSCADC/2013

Date: 18/ 09/2014

**Expression of interest for Establishment of Fish Landing Centers/Mini
Fishing Harbours on Turn Key basis**

Expression of interest is invited from reputed agencies for the establishment of Fish Landing centers on Turn Key basis. The typical landing centre proposed will of 80 x 40 m dimension.

Terms and conditions

1. A detailed agreement shall be executed by the agency with the Corporation .
2. The agency shall conduct the Need Assessment, Feasibility Report, Detailed Project Report, Liaison with identified funding agencies, obtaining statutory licenses and certifications from local bodies for the establishment of the FLC, Construction and commissioning of the project including procurement and installation of machineries, obtaining electricity and water supply feed from the respective line departments, trial operation and handing over the completed project to the Corporation at their own cost.
3. The design and equipment specifications shall be fixed only after prior approval from the Corporation
4. Detailed estimate shall be prepared as per prevalent valid PWD rates.
5. Part payments will be effected for the preliminary works, DPR preparation etc only after obtaining sanction of the project from the concerned authorities and receiving of the first installment of funds by the Corporation.
6. Further payments shall be released after assessing the work executed by conducting a third party quality audit.
7. The Kerala State Coastal Area Development Corporation Ltd. reserves the right to withdraw from the process or any part thereof, to accept or reject any/ all offers at any

stage of the process and/ or modify the process or any part thereof or vary any terms without assigning reason.

Pre – Qualification criteria

- a) JV/ consortium is not permitted.
- b) * To be eligible to qualify, the company should have commissioned at least three FLCs in last 5 years.
- c) *Average annual turnover in the past three years should be INR 5 crores.
- d) Subcontracting of the project implementation cannot be done.
- e) There shall be sufficient period of replacement warranty of components and AMC services.
- f) Bio data of the competent technical and non technical team members may be attached

*Necessary documentary proof should be enclosed with EOI.

The details of the proposed FLC are as follows,

A typical Fish Landing Centre (FLC) proposed under the project consists of components such as Auction halls, Chilled storage facilities, Office rooms, water supply arrangements, Sanitary facilities, waste disposal systems, solar lighting, high mast lights, power supply, approach roads etc. Ramp facilities will be incorporated in the building for ease of loading and unloading of fish. A pre constructional anti termite treatment by injecting chemical concentrate will be compulsorily provided to the building proper.

a) Auction hall

The size of the auction hall is in accordance with the volume of fish to be handled. In the auction hall, there will be raised plat forms covered with granite slabs of not less than 1.20 m x 1.20 m in size for display and auction of fishes. There is also provision for sorting, cleaning and grading of fish. The floor of the auction will be hard-wearing, non-porous, washable, easy to drain, non-slip and resistant to possible attack from brine, fish oils and offal. For this purpose, anti skid tiles will be used. Tiles with slightly abrasive surface are quite good as they are less slippery. Light-coloured tiles are recommended because they reflect light and show up dirt. Utmost care will be taken when lying tiles in cement that all joints between tiles are complete and permanently sealed. The junctions with the walls shall be in a way so that it facilitates easy cleaning. A sufficient slope of 2% from the highest point to the drainage outlets will be ensured.

Walls shall be constructed of materials that have smooth, washable and impervious inside surfaces of light colour. For easy cleaning they will be rounded at the junctions with other walls and ceilings shall be kept as free as possible from ledges, projections or ornamentations to avoid dust collection. Walls, whose internal surfaces are not tiled, shall be finished in plaster. Walls which are intended primarily as partitions will be strong enough for fish boxes or other light equipment to be piled up against them; good partitions can be erected from prefabricated concrete blocks and finished to a hard smooth surface, especially the lower parts, which are subject to constant wear.

b)Chilled room for fish storage

The chilled room is a refrigerated area for cold storage to preserve fish for longer duration. In a chilled room, the temperature is typically between 0 to 5°C. The chill room will be of the size of 2.65 x 2.3 x 2.3 and will be made of elements of Pre-fabricated sandwich panels with cam lock and rubber gaskets on all sides. All panels fit together by cam lock, so that room becomes air tight. Panels will be formed with grooves at intermediate intervals. Walls, ceilings and floor are joined with cam lock. Panel surface will be 60 mm, PUF panel with one side pre coated GIPP sheet with PVC film thickness 0.55 mm or equivalent on exterior & SS 304 of 0.5 mm thick as interior. The floor insulation will be of 60 mm PUF slab with one side tar felt. Flush type swing door with heavy duty hinges and handles with closer will be used for longer life.

c) Water supply arrangements

There is a need for clean, fresh or sea water. An open well will be dug along with all Utility centre and for storage of water, Over tank facilities are also included. Well water or sea water supplied from nearby beaches can be cleaned up by using simple filtering devices. The regions where well water is not potable separate water connection will be taken from Kerala Water Authority's water mains. The estimated volume of water required for only the basic fish handling operations will be as follows.

- ❖ 1 litre per kg of fish for washing.
- ❖ 10 litres/m²/day for cleaning the market premises
- ❖ 10 litres/box/day for fish box washing
- ❖ 100 litres of fresh water/person per day for personnel use; and,
- ❖ an additional 15% of the total daily consumption of water calculated above for other uses like vehicles washing.

d)Sanitary facilities

At the fish landing centers, sanitary accommodation shall be provided for the fishermen, women fish vendors and fish merchants. Four numbers of individual toilets are provided in the

Fishermen Utility Centre proposed. It is important that the rooms containing the toilets be separated from the fish working areas and be well lit. The toilets will be equipped with hand wash basins, but the selection and design of on-site latrine/toilets will depend on the water effluent disposal system used in the area and cultural factors, as well as costs and availability of materials. The design shall provide ample water supplies at adequate pressure for washing and disinfecting operations; a regular schedule for cleaning and standardized procedures for manual cleaning of fish landing surfaces such as floors, walls, pillars, boxes, miscellaneous handling equipment should be established.

e) Waste disposal

Waste can be divided into solid and liquid waste. Solid wastes shall be stored in water tight bins with covers. Such bins shall be stored in an area with a concrete base sloping to a drain. These bins and the waste they contain will be removed at frequent intervals and disposed of in such a way as to avoid pollution. Such waste might be used for manure/animal feed or fish silages or could be buried in pits.

Waste of liquid type (effluents) shall be removed from the landing site and the handling/marketing premises by draining it into the public sewage system where such exists. The drains are designed with solid traps to remove waste water without risk of flooding. However, local health authorities should be consulted in order to comply with possibly more strict national regulations.

f) Lighting

Lighting shall provide adequate natural light, as well as artificial overhead lighting when necessary, in order to allow personnel to perform their duties without eye strain. Maximum use of natural daylight is always part of the design, by providing adequate windows and skylights. It is also cheaper than artificial lighting. Fluorescent lighting is particularly suitable (daylight type) for fish-market areas where a shadow less light with very little glare is required continuously for a long time; even though the initial costs are relatively higher than other lighting systems, operational costs are lower and generally such a lighting is found to be economical. A light level of 220 lux as minimum is considered adequate. All artificial lighting fixtures should be water-proofed and shielded to protect against broken glass. One solar high mast light will be provided to ensure lighting of the surrounding in the night. This would be highly useful for fishermen who often go for fishing during early dawn or late night.

g) Power supply

The power supply facilities shall be installed in such a way to satisfy the present demand and the likely future requirements.

h) Road & Parking Area

The Fishermen Utility Centre shall be close to the sea coast, easy transportation is one of the prime requisite which a Fishermen Utility Centre requires.

In small-scale fish landing facilities a convenient way of estimating is that access roads and loading yards should be large enough to absorb the anticipated peak traffic and that the loading area should be wide enough to allow for the necessary movement for the handling equipment (hand pallet trucks, trolleys, etc.) in order to move the fish quickly from the market hall to the vehicles. There will be a suitable parking area which will accommodate a minimum of 10 vehicles at a time.

The firm/company should submit necessary certificates of experience for eligibility as mentioned below with other technical details such as brief process description, waste utilization, method of functioning, process, other relevant details etc.

Expression of interest should be submitted in the office of Kerala State Coastal Area Development Corporation Ltd., T.C 16/1709, Near DPI, Jagathy, Thiruvananthapuram, Kerala – 695014 on or before 04/10/2014 by 3.00 pm. The document will be scrutinized and shortlisted companies will be intimated for presentation and after that for submission of financial bid before the Kerala State Coastal Area Development Corporation Ltd .