M.R.O. 1—77,006—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 196, 197	2399	Press / Mis.
Dated	13-10-	18 92

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 12th October 1872.

No. 196. Read the following letter from the Acting Superintending Engineer, 1st Division, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 6th September 1872, No. 2,126 :—

WITH reference to your memorandum No. 216, dated 29th July 1872, I have the honour to forward herewith copy of a letter from the Executive Engineer in charge of No. 1 Range, Godavery, reporting on the present condition of the two steam dredges at Cocanada, together with an estimate, amounting to Rupees 2,500, for putting them into thorough order, which I request you will be good enough to obtain sanction for, as soon as possible, from Port Funds or from "Tools and Plant," Imperial. I do not estimate the H. P. at more than 16½ nominal by Lardner's rule.

1 Copy of letter, No. 355, dated 31st Aug. 1872.
1 Estimate.

No. 197. ORDER THEREON, 12th October 1872, No. 2,399.

CIVIL WORKS, No. 8.

HIS Excellency the Governor in Council sanctions the estimate of Rupees 2,500 for the repair of the two steam dredges at Cocanada.

2. The Marine Department will be requested to arrange for providing the amount from Port Funds.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Superintending Engineer, 1st Division.
,, Controller of Public Works Accounts.
,, Marine Department.

Exd. S. T. Austin.

SUPERINTENDING ENGINEER'S OFFICE, 1st DIVISION

DOWLAISHWARUM, 6th September 1872

No. 2126

From

The Acting Superintending Engineer

1st Division

To

The Chief Engineer P.W.D.

MADRAS

SIR,

With reference to your Memo No 216 dated 29th July 1872 I have the honor to forward herewith, copy of a letter from the Executive Engineer in charge No 1 Range Godavery, reporting on the present Condition of the 2 Steam Dredges at Cocanada, together with an Estimate amounting to Rs. 2500 for putting them into thorough order, which I request You will be good enough to obtain sanction for, as soon as possible from Port funds or from Irols and Plant Imperial Gen. I do not Estimate the H.P. at more than 16½ Nominal by dimensions made.

I have the honor to be
Sir,
Your most Obt Servant

Illegible
Asstt Engineer 1st Division

P. W. 1872. Sept. 6.
Rec'd 7th Sept. No. 4532.

From

The Superintending Engineer,
First Division.

To

The Chief Engineer for Irrigation
P.W.D. - MADRAS.

Dated 6th September 1872.
Received. 17 ——— 1872.

NO. 2126
ENCLO. Lists

Subject.

Requests to obtain the sanction of Government to the Estimate amounting to Rupees 2500 for putting the 2 Steam Dredges at Coconada into thorough Order.

No 196

No 2399-32 Retrospt

Dredging Establishment
Agreement
Steam Dredges
Coconada
Estimate
Rs 2500
Sanction
Repairs
Machinery
Boilers
Pumps
Engines
Cylinders
Tubes
Rivets
Plates
Valves
Cocks
Gauges
Fittings
Iron
Copper
Brass
Timber
Coal
Oil
Tallow
Canvas
Ropes
Chains
Anchors
Buoys
Lights
Tools
Workshop
Establishment
Wages
Contingencies
Accounts
Vouchers
Audit
Remittances
Treasury
Collector
Port Officer
Harbour Master
Pilots
Navigation
Channel
Entrance
Bar
Depth
Soundings
Survey
Charts
Plans
Estimates
Reports
Correspondence
Orders
Circulars
Returns
Statements
Monthly
Annual
Quarterly
Half-yearly
Weekly
Daily
Hours
Overtime
Leave
Sick
Casualty
Death
Funeral
Compensation
Pension
Gratuity
Provident Fund
Subscription
Donation
Charity
Hospital
Dispensary
Medicine
Doctor
Assistant Surgeon
Native Doctor
Vaccination
Inoculation
Cholera
Fever
Small-pox
Epidemic
Quarantine
Disinfection
Fumigation
Lime
Carbolic Acid
Chloride of Lime
Sulphur
Nitre
Charcoal
Saltpetre
Gunpowder
Blasting
Rock
Stone
Sand
Gravel
Clay
Mud
Silt
Dredging
Excavation
Embankment
Reclamation
Training Wall
Groyne
Jetty
Pier
Wharf
Quay
Landing Place
Boat
Launch
Steamer
Tug
Barge
Lighter
Flat
Hopper
Scow
Punt
Canoe
Oar
Sail
Mast
Rudder
Helm
Compass
Binnacle
Flag
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Pennant
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Datum
Bench Mark
Triangulation
Theodolite
Chain
Tape
Measure
Rod
Staff
Flag
Peg
Pillar
Cairn
Trigonometrical
Traverse
Plane Table
Compass
Bearing
Azimuth
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Longitude
Meridian
Parallel
Equator
Pole
North
South
East
West
Magnetic
True
Variation
Deviation
Chronometer
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Tide
High Water
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Neap
Ebb
Flood
Current
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Discharge
Gauge
Rainfall
Monsoon
Storm
Cyclone
Wind
Calm
Breeze
Gale
Hurricane
Barometer
Thermometer
Temperature
Humidity
Evaporation
Dew
Fog
Mist
Cloud
Rain
Snow
Hail
Thunder
Lightning
Rainbow
Sunrise
Sunset
Twilight
Moonlight
Eclipse
Comet
Star
Planet
Sun
Moon
Earth
Sky
Horizon
Zenith
Nadir
Meridian
Ecliptic
Zodiac
Constellation
Orion
Great Bear
Pole Star
Southern Cross
Milky Way
Nebula
Universe
Creation
God
Soul
Spirit
Life
Death
Resurrection
Heaven
Hell
Purgatory
Angel
Devil
Saint
Prophet
Apostle
Bible
Testament
Old Testament
New Testament
Gospel
Epistle
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Hymn
Prayer
Sermon
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Lizard
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Butterfly
Moth
Beetle
Ant
Bee
Wasp
Fly
Mosquito
Flea
Louse
Bug
Spider
Scorpion
Centipede
Worm
Leech
Snail
Slug
Oyster
Mussel
Crab
Lobster
Prawn
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Crucible
Mould
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Welding
Soldering
Brazing
Tempering
Annealing
Hardening
Polishing
Painting
Varnishing
Tarring
Caulking
Oakum
Pitch
Resin
Turpentine
Linseed Oil
Castor Oil
Cocoanut Oil
Ghee
Butter
Milk
Cream
Curd
Whey
Cheese
Sugar
Salt
Pepper
Spice
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Rice
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Biscuit
Cake
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Meat
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Onion
Garlic
Cabbage
Cauliflower
Carrot
Turnip
Radish
Beetroot
Spinach
Lettuce
Cucumber
Pumpkin
Gourd
Melon
Fruit
Apple
Pear
Peach
Plum
Apricot
Cherry
Grape
Orange
Lemon
Lime
Citron
Pomegranate
Fig
Date
Mango
Plantain
Banana
Pineapple
Guava
Jackfruit
Breadfruit
Custard Apple
Tamarind
Cocoanut
Betel
Areca
Tobacco
Cigar
Cheroot
Pipe
Snuff
Opium
Ganja
Liquor
Arrack
Toddy
Wine
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Vermouth
Absinthe
Kirsch
Maraschino
Curaçao
Benedictine
Chartreuse
Kümmel
Anisette
Peppermint
Ginger
Cinnamon
Clove
Nutmeg
Mace
Cardamom
Saffron
Turmeric
Asafoetida
Camphor
Quinine
Cinchona
Ipecacuanha
Jalap
Rhubarb
Senna
Castor
Aloes
Myrrh
Frankincense
Gum
Resin
Lac
Shellac
Varnish
Dye
Indigo
Madder
Cochineal
Logwood
Fustic
Sandalwood
Ebony
Teak
Mahogany
Rosewood
Ironwood
Bamboo
Cane
Rattan
Reed
Grass
Straw
Hay
Fodder
Cotton
Wool
Silk
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Hemp
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Sugar
Molasses
Treacle
Starch
Gum
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Cash Book
Receipt
Bill
Invoice
Voucher
Account
Balance
Debit
Credit
Interest
Discount
Exchange
Rupee
Anna
Pie
Pice
Cowrie
Shilling
Penny
Pound
Dollar
Cent
Franc
Mark
Florin
Ducat
Sovereign
Guinea
Crown
Half-crown
Sixpence
Groat
Threepence
Farthing
Halfpenny
Coin
Note
Bank
Banker
Agent
Broker
Merchant
Shop
Bazaar
Market
Fair
Auction
Tender
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Agreement
Bond
Security
Deposit
Mortgage
Lease
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Customs
Excise
Octroi
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Ferry
Passage
Freight
Cargo
Manifest
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Consignment
Consignee
Consignor
Shipper
Owner
Captain
Crew
Passenger
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Bilge
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Stern
Bow
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Snow
Hail
Thunder
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Rainbow
Sunrise
Sunset
Twilight
Moonlight
Eclipse
Comet
Star
Planet
Sun
Moon
Earth
Sky
Horizon
Zenith
Nadir
Meridian
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Great Bear
Pole Star
Southern Cross
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Nebula
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Cymbals
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Coral
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Seaweed
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Crocodile
Alligator
Snake
Lizard
Frog
Toad
Insect
Butterfly
Moth
Beetle
Ant
Bee
Wasp
Fly
Mosquito
Flea
Louse
Bug
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Ghee
Butter
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Whey
Cheese
Sugar
Salt
Pepper
Spice
Curry
Rice
Wheat
Flour
Bread
Biscuit
Cake
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Meat
Beef
Mutton
Pork
Veal
Venison
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Poultry
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Cauliflower
Carrot
Turnip
Radish
Beetroot
Spinach
Lettuce
Cucumber
Pumpkin
Gourd
Melon
Fruit
Apple
Pear
Peach
Plum
Apricot
Cherry
Grape
Orange
Lemon
Lime
Citron
Pomegranate
Fig
Date
Mango
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Pineapple
Guava
Jackfruit
Breadfruit
Custard Apple
Tamarind
Cocoanut
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Rum
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Cordial
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Claret
Port
Sherry
Madeira
Hock
Moselle
Burgundy
Chianti
Vermouth
Absinthe
Kirsch
Maraschino
Curaçao
Benedictine
Chartreuse
Kümmel
Anisette
Peppermint
Ginger
Cinnamon
Clove
Nutmeg
Mace
Cardamom
Saffron
Turmeric
Asafoetida
Camphor
Quinine
Cinchona
Ipecacuanha
Jalap
Rhubarb
Senna
Castor
Aloes
Myrrh
Frankincense
Gum
Resin
Lac
Shellac
Varnish
Dye
Indigo
Madder
Cochineal
Logwood
Fustic
Sandalwood
Ebony
Teak
Mahogany
Rosewood
Ironwood
Bamboo
Cane
Rattan
Reed
Grass
Straw
Hay
Fodder
Cotton
Wool
Silk
Linen
Hemp
Jute
Flax
Wax
Honey
Sugar
Molasses
Treacle
Starch
Gum
Glue
Paper
Pen
Pencil
Ink
Book
Ledger
Journal
Cash Book
Receipt
Bill
Invoice
Voucher
Account
Balance
Debit
Credit
Interest
Discount
Exchange
Rupee
Anna
Pie
Pice
Cowrie
Shilling
Penny
Pound
Dollar
Cent
Franc
Mark
Florin
Ducat
Sovereign
Guinea
Crown
Half-crown
Sixpence
Groat
Threepence
Farthing
Halfpenny
Coin
Note
Bank
Banker
Agent
Broker
Merchant
Shop
Bazaar
Market
Fair
Auction
Tender
Contract
Agreement
Bond
Security
Deposit
Mortgage
Lease
Rent
Tax
Duty
Customs
Excise
Octroi
Toll
Ferry
Passage
Freight
Cargo
Manifest
Bill of Lading
Consignment
Consignee
Consignor
Shipper
Owner
Captain
Crew
Passenger
Cabin
Deck
Hold
Bilge
Keel
Stem
Stern
Bow
Quarter
Gunwale
Thwart
Oar
Rowlock
Sail
Mast
Yard
Boom
Gaff
Rudder
Tiller
Helm

No 33

Detailed Estimate for Repairing Hos 1 & 2 Sea Dredges and Sally boats

Particulars.	No.	Measurements Length	Breadth	Depth	Total Superficial or Lineal feet	Price per ft.	Total Cost or Cubic contents
No 1 Dredge							
Caulking Deck	1	"	"	"	2000 Rft	"	2000 Rft
Coir Rope for awning with rope &c.	2	30	18	"	"	"	"
Iron chain for ladder	1	100	-	1/2 Diam	"	1-87	187 1/2
Oars Country	4	"	"	"	"	"	"
Poling Bamboos	12	"	"	"	"	"	"
Tarpaulins	1	"	"	"	"	"	"
Coir Rope for Dredge	1	600	"	1/2 round	"	"	300
Iron plates for Boiler Cover	2	6-9	1-6	1/8"	20-3	5	101-25
Do Do Do	2	3-8	1-6	1/8"	11 "	5	55 "
Do for Fire room	4	6 "	2 "	1/4"	48 "	10	480 "
Do for Deck	20	6 "	1 "	1/8	120 "	5	600 "
Iron rivets for Boiler Cover	2000	1	"	1/4 Diam	"	"	88 1/2
Angle Iron	1	21	"	"	21	3	62 "
Water Casks	3	"	"	"	"	"	"
Half Casks	1	"	"	"	"	"	"
Mamatties Country	3	"	"	"	"	"	"
Large Lanthorn	1	"	"	"	"	"	"
Tin oil Can 3 gallons	1	"	"	"	"	"	"
Tin oil feeder	1	"	"	"	"	"	"
Wooden handles	4	"	"	"	"	"	"
Bucket link bolts with rings	88	"	"	"	"	"	"
No 2 Dredge							
Caulking Deck	1	"	"	"	2000 Rft	"	2000 Rft
Country Canvas for awning with ropes	2	30	18	"	"	"	"
Iron Chain for Ladder	1	100	"	1/2 Diam	"	1-87	187 1/2
Oars Country	4	"	"	"	"	"	"
Poling Bamboos	12	"	"	"	"	"	"
Tarpaulins	1	12	10	"	"	"	"
Coir rope for Dredge	1	600	"	1/2 round	"	"	300
Iron plates for boiler Cover	2	69	1-6	1/8	20-3	5	101-25
Do Do Do	2	3-8	1-6	1/8	11 "	5	55 "
Do for Fire room	4	6 "	2 "	1/4	48 "	10	480 "
Do for Deck	20	6 "	1 "	1/8	120	5	600 "
Iron rivets for Boiler Cover	2000	1 "	"	1/4 Diam	"	"	88 1/2
Angle Iron	1	"	"	"	21	3	63 "
Water Casks	3	"	"	"	"	"	"
Half Casks	1	"	"	"	"	"	"

No DP 45324/12.

Enclosure in letter
No 2426 dated 15th May
from Executive Engineer
Cuttack Division
to Superintending Engineer
Chittagong Circle
Dated Cuttack the 22nd May 1905

								Quantity	Description of work	Rate	Amount			Total		
Monaties Country	3	"	"	"	"	"	"									
Large Night lanthorn	1	"	"	"	"	"	"									
Tin oil Can 3 gallons	1	"	"	"	"	"	"									
Tin oil feeder	1	"	"	"	"	"	"									
Wooden buckets	4	"	"	"	"	"	"									
Bucket link bolts with keys	88	"	"	"	"	"	"	4000.	Rft Caulking Decks for 2 Dredges @ 3 per 100 ft	3 "	120	"	"			
Teakwood Stanchions	20	8	3	"	"	"	"	4	Awnings Complete Each 30 x 18	60 "	240	"	"			
Iron Clamps	20	"	"	"	"	"	65 lbs	374	lbs Iron chains per cwt	50 "	37	6	2			
Sally boats								12	Country oars Each	4 11	56	4	"			
Caulking and putty repairs	"	"	"	"	"	"	"	36	Poling Bamboos	3 "	6	12	"			
Punts								2	Jarpan lines	34 "	68	"	"			
Poling Bamboos	12	"	"	"	"	"	"	2	Coir Ropes 600 lbs	12 "	24	"	"			
Coil horses	12	100	"	2" Dia	"	"	"	2	Coir Ropes 600 lbs	" 2	309	"	"			
Anchor chains	12	24	"	½ inch	"	"	"	2472.	lbs Plate Iron per lbs	" 2	20	14	"			
Steamer								167.	" Rod iron for rivets	" 2	54	"	"			
Coil horses	1	300	"	3 Dia	"	"	"	9	Water Casks Each	6 "	12	"	"			
Margatting planks for Unloading Mud from punts	20	15	1	3	"	"	"	12	Water Buckets	1 "	6	"	"			
Oars Country	4	"	"	"	"	"	"	2	Half Casks	3 "	6	"	"			
Water Casks	3	"	"	"	"	"	"	6	Monaties	1 "	6	"	"			
Water Buckets	4	"	"	"	"	"	"	2	Large Lanthorns	3 "	3	"	"			
Chimney for No 2 Dredge	1	11	"	4-3 Rd	"	"	"	2	Tin Oil Cans	1 8	1	8	"			
For 2 Dredges								2	Oil feeders	12 "	1	8	"			
Bringing ashore	"	"	"	"	"	"	"	176	Bucket Link bolts with keys	1 3 6	214	8	"			
Removing old boiler	"	"	"	"	"	"	"	11	Anchor Chains per cwt	" "	82	"	"			
Placing 2 new ones in dredges	"	"	"	"	"	"	"	2	Coil horses 255 fathoms 5 Cwt	20 "	100	"	"			
Fitting the same	"	"	"	"	"	"	"	20	Teakwood Stanchions	1 8	30	"	"			
Clearing Engines fitting Machinery	"	"	"	"	"	"	"	4	Sally boats Caulking Each	15 "	60	"	"			
Steam guages	"	"	"	"	"	"	"	65	lbs Iron clamps per cwt	" 2	8	2	"			
								1	Iron Chimney	" "	45	"	"			
								20	Margatting planks Each	1 8	30	"	"			
								13	Squares Tarring 2 Coats for Hull	2 8	32	8	"			
								126	lbs Angle Iron per cwt	" 2	15	12	"			
									Bringing ashore	" "	65	"	"			
									Carried forward		1653	10	2			

Brought forward	"	"	"	1653	10	2	
Removing old boiler	"	"	"	35	"	"	
Placing 2 new ones in dredger	"	"	"	35	"	"	
Fitting the same with Cast iron fittings	"	"	"	60	"	"	
Cleaning Engine & fitting Machinery and taking dredger out of Dock	"	"	"	215	"	"	
Steam Gauges	"	"	"	180	"	"	
						2178	10 2
Haulage	"	"	"	"	"	544	5 10
						32 1 5	
						2500	" "
Total Rupees						2773	" "

Government Workshop
Dowlaiswaram
31st August 1872.

W M Reid Lieutenant R E
Executive Engineer in charge
Government Workshop

W M Reid Lieut R E
for
Supg Engineer 1st Div

No 2399.

Public Works Department.

Proceedings of the Madras Government.

Read the following:-

13

From

The Agt. Supg. Engr. 1st Dn. } N. E. No. 2126 dt. 6th September 1872

His Excellency the Governor in Council sanctions the estimate of Rs 2,500 for the repairs of the two steam Dredges at Cocanada.

The Marine Department will be requested to arrange for providing the amount from Port Funds.

~~Amt. Rs 2,500 debitable to Civil Estimate Rs. Sundries Head Harbours & Rivers~~

42/4

To The Supt Engr. 1st Dn
" Controller
" Marine Deptt

Deps 28/10/72.

From
The Secretary to
Chairman Port Committee

To
The Secretary to Govt
Public Department

Dated 29th August 1872

Sir,

Estimate for repairing Nos 1 & 2 Steam Dredges belonging to Port Committee

Forwarding herewith

Gauntlaying 6

Encl. 12 Estimates

Dy. No. 4538/72

Enclosure No 2 to letter No. 2126 dated 6th September 1872 from the Secretary to Government Public Department

Estimate for repairing Nos 1 & 2 Steam Dredges belonging to Port Committee

Gauntlaying 6

Rs. 12 Estimates

Dy. No. 4538/72

No 4532

Govt. of {1872} Madras.

PUBLIC WORKS.

Re Steam Dredges at Cocanada

Dated

Rcvd.

Encl.

G. O. 12 dated No 2399.

Nos. 196 & 197

Steam Dredges at Cocanada

Estimate Rs 2,50,000 for
Steam Dredges
Cocanada, Sanctioned;
Marine Dept. to arrange for
providing the
Vessels.