



# NATIONAL POWER CORPORATION

## SUPPLEMENTAL/BID BULLETIN No.1

to the Bid Documents for the:

### **Supply, Delivery, Installation, Test, and Commissioning of One (1) Unit Dredging Machine Set and Accessories for Pulangi IV HEP (PB2) Under P.R. No. MG-PLM23-017/Ref. No. PB231109-AM**

11 January 2024

All prospective bidders and authorized copyholders of the Bid Documents of the above-mentioned project are hereby informed of the changes/clarifications as follows:

<p><b>SECTION VI – TECHNICAL SPECIFICATIONS (VI-TS-15)</b>  <b>TS-10.0 – DRAWINGS AND DOCUMENTS TO BE SUBMITTED</b>  <b>a) To be submitted with the bid</b></p>
<p><b>TO DELETE THE FOLLOWING:</b>  <b>a.3.4.1</b> Certificate from the bidder's client that at least one (1) unit of the same offered/make/brand was delivered &amp; accepted in the Philippines within the last ten (10) years.  <b>All succeeding items shall be adjusted accordingly.</b></p>

<p><b>SECTION III – BID DATA SHEET (III-BDS-3)</b>  <b>20.1 Additional documents to be submitted during Post-Qualification</b></p>
<p><b>TO ADD THE FOLLOWING:</b>  <b>f.</b> Certificate from the project owner/client that the performance of the item is satisfactory per the submitted Single Largest Completed Contract (SLCC).</p>

REFERENCE SECTION	PREVIOUS VERSION - REVISIONS	REVISED VERSION
<b>PART II – TECHNICAL DATA SHEETS, MW – Mechanical Works</b>		
<b>M-6.0 Standard Certification</b>	<p><b>Standard Certification</b> of the proposed offered model of dredging machine set from any of the following internationally recognized certifying body/organization:</p> <ul style="list-style-type: none"> <li>a) Canadian Standard Association (CSA);</li> <li>b) Underwriter's Laboratories (UL);</li> <li>c) Japanese Industrial Standards (JIS);</li> <li>d) European Commission (EC);</li> <li>e) Lloyd's Register (LR);</li> <li>f) Germanischer Lloyd (GL);</li> <li>g) Nippon Kaiji Kyokai (NKK);</li> <li>h) American Bureau of Shipping (ABS).</li> </ul>	<p><b>Standard Certification</b> of the proposed offered model of dredging machine set <b>including but not limited to</b> the following internationally recognized certifying body/organization:</p> <ul style="list-style-type: none"> <li>a) Canadian Standard Association (CSA);</li> <li>b) Underwriter's Laboratories (UL);</li> <li>c) Japanese Industrial Standards (JIS);</li> <li>d) European Commission (EC);</li> <li>e) Lloyd's Register (LR);</li> <li>f) Germanischer Lloyd (GL);</li> <li>g) Nippon Kaiji Kyokai (NKK);</li> <li>h) American Bureau of Shipping (ABS).</li> </ul>



<b>SECTION VI- TECHNICAL SPECIFICATIONS</b>		
<b>TS-2.0</b> <b>Scope of Work</b> Item c)	<b>Item c)</b> Conduct actual dredging activities equivalent to three (3) months at least 6 days per week and 8 hours per day (except in cases of force majeure or fortuitous event) or with a total accumulated of <b>832</b> hours with the presence of NPC training personnel to perform on-job training (OJT). Only fuel consumption shall be shouldered by NPC. All other maintenance and repair costs shall be at the expense of the supplier/contractor;	<b>Item c)</b> Conduct actual dredging activities equivalent to three (3) months at least 6 days per week and 8 hours per day (except in cases of force majeure or fortuitous event) or with a total accumulated of <b>624</b> hours with the presence of NPC training personnel to perform on-job training (OJT). Only fuel consumption shall be shouldered by NPC. All other maintenance and repair costs shall be at the expense of the supplier/contractor;
<b>TS-4.2</b> <b>Design Characteristics</b>	2 <sup>nd</sup> Paragraph, in lines 9 & 10 – Delete “ <b>with jet ring system</b> ”	The hydraulic pipeline cutter head suction dredging set installed in a self-propelled vessel shall be capable of moving sediments using slurry pumps which suck up the sediment slurry by hydraulic suction cutter head dredge and pump it through a pipeline directly to its destination. It shall be fully self-contained and suitable for use in rivers and lakes. It must be transportable by truck and trailer through disassembling of parts and components. It shall be equipped with the following main components and other accessories necessary for the safe, efficient, and smooth operation including but not limited to the following: diesel engine-driven dredge pump; steel pontoons; steel center hull; steel boom structures; hydraulic power pack; dredge GPS system & digital depth gauge; control operator’s cabin with accessories; winches; dredge anchors or dredge spuds; floating lifeline rope; life jackets & lifebuoy rings; and dredge lines components/accessories such as HDPE pipes, floaters and lay-flat/ flexible hose including all accessories necessary for the safe, efficient and smooth operation of the system.
<b>TS-4.3</b> <b>Dredging Vessel and Auxiliaries</b> (Item a)	a) Heavy duty self-propelled vessel of manufacturer’s standard or designed with a speed of at least <b>6 knots</b> equipped with a mechanical depth gauge designed for the safe and efficient operation of the dredging machine unit and all its required accessories. The propeller shall be equipped with guards for its protection against debris and other harmful objects. Includes starboard for easy/safe loading and unloading of personnel and equipment;	a) Heavy duty self-propelled vessel of manufacturer’s standard or designed with a speed of at least <b>6 knots</b> equipped with mechanical depth gauge designed for the safe and efficient operation of the dredging machine unit and all its required accessories. The propeller shall be equipped with guards for its protection against debris and other harmful objects. Includes <b>platform/deck</b> for easy/safe loading and unloading of personnel and equipment;
<b>TS-4.3</b> <b>Dredging Vessel and Auxiliaries</b> (Item b.3)	b.3 Each pontoon shall have a skid channel runner the entire length for easy skidding on shore.	b.3 Each pontoon shall have a skid channel runner of the <b>Manufacturer’s standard or design (made of metal)</b> the entire length for easy skidding on shore.

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<b>SECTION VI- TECHNICAL SPECIFICATIONS</b>		
<b>TS-4.5 Hydraulic Power Pack System</b>	In 2 <sup>nd</sup> line, (minimum of 3 -section pump) Change "3" to "2"	The hydraulic System shall be of manufacturer's standard equipped with a hydraulic pump (minimum of 2-section pump) that provides service to the cutter head motor, swing winches, and ladder winch and sludge pumps designed for the safe, efficient, and smooth operation of the system.
<b>TS-4.7 Hoisting</b>	In 3 <sup>rd</sup> line, delete "lifting the spuds"	A minimum of five (5) sets of winches shall be of manufacturer's standard with steel cable each designed for the safe operation and swinging of the dredge and lifting the ladder. All winches are complete with galvanized cables designed for a minimum of 4,500 lb. line pull capacity.
<b>TS-4.8 Dredge Pump</b>	Insert this as the last sentence of the paragraph, "The pump shall have a minimum of 50% efficiency for dredging fine sand with a discharge at 500 meters distance."  In 2 <sup>nd</sup> line, delete "@ 61m water"	Heavy duty Dredge Pump shall be of manufacturer's standard designed for a minimum pump capacity output of 1,200 m <sup>3</sup> /h (5,200GPM) and achieve at least 54% efficiency with maximum particle clearance of 150mm. The pump shall have a minimum of 50% efficiency for dredging fine sand with a discharge at 500 meters distance.
<b>TS-4.9 Dredge Anchors of Dredge Spuds, Section e.2 For Spuds</b>	<b>TS-4.9 Dredge Anchors or Dredge Spuds</b>  Heavy duty Dredge Anchors or Dredge Spuds shall be of manufacturer's standard designed with the following minimum specifications: e.1 <u>For Anchors</u> e.1.1 Stainless steel or high tensile strength steel material anchors; e.1.2 Hydraulic retractable system with back-up winch system; and e.1.3 With steel cable lines of at least 50m each.  e.2 <u>For Spuds</u> e.2.1 Spud length at least 9 meters; and e.2.2 Hydraulic retractable system with back-up winch system.	<b>TS-4.9 Dredge Spuds</b>  Heavy duty Dredge Spuds shall be of manufacturer's standard designed with the following minimum specifications:  (e.1 – Deleted)  <b>e.1 For Spuds</b> e.1.1 Spud length at least 9 meters; e.1.2 Hydraulic retractable system; and e.1.3 <b>With a backup winch system (separate from the spud system) drum winch with pendant control.</b>
<b>TS-4.12 Cutter Head Assembly</b>	The cutter head assembly shall be of the manufacturer's standard, rotating type spiral design cutter head with a minimum of six (6) cast steel smooth blades mounted to a heavy-duty stainless shaft attached to the cutter motor. The cutter head is driven by a hydraulic motor that has variable speed capability and is reversible.	The cutter head assembly shall be of the rotating type spiral design cutter head with a minimum of six (6) cast steel smooth blades <b>with replaceable teeth (with a protective coating)</b> , mounted to a heavy-duty stainless shaft attached to the cutter motor or <b>Manufacturer's standard</b> . The cutter head is driven by a hydraulic motor that has variable speed capability and is reversible.

<b>SECTION VI- TECHNICAL SPECIFICATIONS</b>		
<b>TS-4.13 Pipes &amp; Connectors</b>	<p>Heavy-duty high-density polyethylene pipe (HDPE) with steel connectors capable of carrying and conveying pressurized slurry sediments to designated locations.</p> <ol style="list-style-type: none"> <li>Total length distance of 1000 meters;</li> <li>Made of High-Density Polyethylene Pipe (HDPE);</li> <li>Minimum Outside Diameter of 254mm and minimum thickness of 12mm;</li> <li>Can withstand a pressure of at least 0.6Mpa; and</li> <li>Comes with galvanized or any equivalent corrosion-resistant coating <b>steel connectors</b> (male/female fittings) at both ends of each pipe plus a spare of 24 pieces. The connectors should be easy to pull together and then simply lock them in place with heavy-duty clamps that require zero hand tools to clasp together.</li> </ol>	<p>Heavy-duty high-density polyethylene pipe (HDPE) <b>and rubber hose</b> with steel connectors capable of carrying and conveying pressurized slurry sediments to designated locations.</p> <ol style="list-style-type: none"> <li>Total length distance of 1000 meters;</li> <li><b>940 meters</b> made of High-Density Polyethylene Pipe (HDPE) <b>and 60 meters of rubber hose</b>;</li> <li>Minimum Outside Diameter of 254mm and minimum thickness of 12mm;</li> <li>Can withstand a pressure of at least 0.6Mpa; and</li> <li><b>Comes with two (2) galvanized steel flanges at both ends of each pipe (HDPE and rubber hose) complete with galvanized steel bolts, washers, and nuts plus a spare of 50 pieces each of nuts, washers and bolts. It must include a heavy-duty chargeable impact wrench for easy tightening and loosening of the nuts and bolts.</b></li> </ol>
<b>TS-4.15 Oil Spill Boom</b>	<p>Insert the sentence in the last sentence of the paragraph,  <b>"The oil spill boom shall be approved by the Philippine Coast Guard under Memorandum Circular 04-2005 – Accreditation of Oil Water Separators, Oil Containment, Recovery and Dispersal Equipment and Chemical Dispersants."</b></p>	<p>The dredge shall be equipped with an Oil Spill Boom to mitigate the potential oil spills that may occur during dredging operations and fuel transport in the area. It shall have a total length and height of 300m (min.) and 600mm (min.) The freeboard and skirt draft shall have minimum sizes of 250mm and 350mm at 20m/section length complete with rubber belt fabric, HDPE floater, galvanized chain, and Navy Connector. <b>The oil spill boom shall be approved by the Philippine Coast Guard under Memorandum Circular 04-2005 – "Accreditation of Oil Water Separators, Oil Containment, Recovery and Dispersal Equipment and Chemical Dispersants".</b></p>
<b>TS-4.17 Utility Boat/ Deck Barge</b>	<p>A utility boat complete with an outboard motor shall be included as a means of transportation for personnel during the conduct of maintenance and/or inspection of the dredging machine. It shall have a minimum payload capacity of 680kg and a minimum total deck space area of 9 m<sup>2</sup>. The boat shall be made of two (2) pressure-tested hulls constructed from 4.5mm (min.) marine-grade aluminum and a deck made of 3/16in. (min) marine-grade aluminum diamond tread or equivalent equipped with at least two (2) cushioned crew seats, two (2) life rings, and two (2) life jackets.</p>	<p>A utility boat complete with an outboard motor shall be included as a means of transportation for personnel during the conduct of maintenance and/or inspection of the dredging machine. It shall have a minimum payload capacity of 680kg and a minimum total deck space area of 9 m<sup>2</sup>. The boat shall be made of two (2) pressure-tested hulls constructed from 4.5mm (min.) marine-grade aluminum <b>or steel</b> and a deck made of 3/16in. (min) marine-grade aluminum diamond tread or equivalent equipped with at least two (2) cushioned crew seats, two (2) life rings, and two (2) life jackets.</p>

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<b>SECTION VI- TECHNICAL SPECIFICATIONS</b>		
<b>TS-4.2 Design Characteristics</b>	In 1 <sup>st</sup> Paragraph, 2 <sup>nd</sup> Line – Delete the word “ISO”.	<b>In 1<sup>st</sup> Paragraph</b> The Dredging Machine Unit and Accessories shall be designed and manufactured following relevant standard specifications to ensure the quality, safety, and efficiency of the product. The minimum dredging depth shall be at least <b>12 meters</b> achieved at a 60° down angle on the ladder. The lateral cut swinging 90° at approximately 1 m dredging depth is at least 26 m and at least 22 meters at 12 meters dredging depth.
<b>TS-5.0 Spare Parts</b>	Insert the estimated operating hours requirement in the last Paragraph.	<b>“The operating hours (OH) of the dredging machine unit during the duration of the warranty period is estimated to be 2,496 hours.”</b>
<b>M-1.0 Dredging Machine Set and Associated Equipment Data Sheet</b>		
<b>M-1.10.5 Star Board</b>	NPC Requirement: <b>Included</b>	<b>M-1.10.5 Platform/Deck</b> NPC Requirement: <b>Platform/Deck for easy/safe loading &amp; unloading of personnel and equipment.</b>
<b>M-1.11 Dredge Pump</b>	<b>M-1.11 Dredge Pump</b> M-1.11.1 Guaranteed Pump Discharge: 1,200 m <sup>3</sup> /hour M-1.11.2 Guaranteed Pump Working Capacity: 54% (min) Efficiency  M-1.11.3 Head: 12 meters  M-1.11.4 Particle Clearance: 150mm M-1.11.5 Delivery Distance: 1,000 m (min) M-1.11.6 Power Transmission: By Supplier	<b>M-1.11 Dredge Pump</b> M-1.11.1 Guaranteed Pump Discharge: 1,200 m <sup>3</sup> /hour <b>M-1.11.2 Pump production of in-situ soil material (fine sand) at 500m discharge (pump production curve): 600 m3/hour (min)</b> M-1.11.3 Guaranteed Pump Working Capacity: 54% (min) Efficiency M-1.11.4 Head: 12 meters M-1.11.5 Particle Clearance: 150mm M-1.11.6 Delivery Distance: 1,000m (min) M-1.11.7 Power Transmission: By Supplier
<b>M-1.12 Cutter Head Assembly</b>	<b>M-1.12 Cutter Head Assembly</b> M-1.12.1 Type: Rotating type spiral design cutter head.  M-1.12.2 Mounting: Stainless steel shaft  M-1.12.3 Speed: Fully variable and reversible	<b>M-1.12 Cutter Head Assembly</b> M-1.12.1 Type: Rotating type spiral design or basket/crown type cutter head. M-1.12.2 Mounting: Stainless steel Shaft or Manufacturer's standard. M-1.12.3 Speed: Fully variable and reversible <b>M-1.12.4 Cutting System: Manufacturer's Standard (Replaceable teeth)</b> <b>M-1.12.5 Cutter Motor Power: At least 110kW</b>
<b>M-1.16.1 For Anchors</b>	<b>For Anchors</b> - Stainless steel or equivalent high tensile strength steel material anchors. - Hydraulic retractable system with a backup winch system. - With steel cable lines 50m (min) each.	<b>Delete Item 1.16.1 For Anchors</b> and adjust the item's numbering accordingly.

<b>SECTION VI- TECHNICAL SPECIFICATIONS</b>		
<b>M-1.16.2 For Spuds</b>	NPC Requirement: - Hydraulic retractable system with back-up winch system.	NPC Requirement: - Hydraulic retractable system with back-up winch system (as a separate system with the spuds, i.e. drum winch with pendant control).
<b>M-1.18 Pipes &amp; Connectors</b>	<p><b>M-1.18 Pipes and Connectors</b></p> <p>M-1.18.1 Quantity: By Supplier</p> <p>M-1.18.2 Material: Heavy-duty High-Density Polyethylene Pipe (HDPE)</p> <p>M-1.18.3 Total Length: 1,000 meters</p> <p>M-1.18.4 Length per Pipe (piece): By Supplier</p> <p>M-1.18.5 Outside Diameter: By Supplier</p> <p>M-1.18.6 Thickness: By Supplier</p> <p>M-1.18.7 Working Pressure: 0.60Mpa (min)</p> <p>M-1.18.8 Connectors: Included plus 24 pcs spares</p> <p>M-1.18.9 Stainless bolts, washers, and nuts</p> <p>M-1.18.10 Connector type: Easy pull and lock in place with heavy-duty clamps requiring zero hand tools to connect.</p>	<p><b>M-1.18 Pipes and Connectors</b></p> <p>M-1.18.1 Quantity: By Supplier</p> <p>M-1.18.2 Material: <b>940 meters</b> Heavy-Duty High-Density Polyethylene Pipe (HDPE) and <b>60 meters of Rubber Hose.</b></p> <p>M-1.18.3 Total Length: 1,000 meters</p> <p>M-1.18.4 Length per Pipe (piece): By Supplier</p> <p>M-1.18.5 Outside Diameter: By Supplier</p> <p>M-1.18.6 Thickness: By Supplier</p> <p>M-1.18.7 Working Pressure: 0.60Mpa (min)</p> <p>M-1.18.8 Connectors: Included plus <b>50 pcs spares</b></p> <p>M-1.18.9 <b>Galvanized steel</b> bolts, washers, and nuts</p> <p>M-1.18.10 Connector type: <b>Two (2) galvanized steel flanges at both ends of each pipe (HDPE and Rubber Hose). It must include a heavy-duty chargeable impact wrench for easy tightening and loosening of the nuts and bolts.</b></p>
<b>M-1.19.7 SS314 Stainless Bolts &amp; Nuts</b>	NPC Requirement: <b>Included</b>	<b>M-1.19.7 Bolts &amp; Nuts</b>  NPC Requirement: <b>Galvanized Bolts and Nuts</b>
<b>M-1.28 Utility Boat/Deck Barge</b>	NPC Requirement: M-1.28.5 Hull Material/Make Two (2) hulls made from 4.7mm (min) marine-grade aluminum	M-1.28.5 Hull Material/Make Two (2) hulls made from 4.7mm (min) marine-grade aluminum or steel

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<b>SECTION VII – SCHEDULE OF REQUIREMENTS</b>		
<b>B – Other Mechanical Works</b>	<b>B.2</b> Pipes, HDPE, 1000m, can withstand a pressure of 0.60Mpa, comes with easy pull & lock connectors (male/female) and clamps at both ends of each pipe with 24 pcs spares connector including stainless bolts, washers, and nuts.	<b>B.2</b> Pipes, 940m HDPE, and 60m of Rubber Hose can withstand a pressure of 0.60Mpa, come with 2 galvanized steel flanges at both ends of each pipe (HDPE and Rubber Hose) with 24 pcs spare connectors including galvanized steel bolts, washers, and nuts.
<b>B – Other Mechanical Works</b>	<b>B.6 Utility Boat</b> , with 680kg (min) payload capacity made of two (2) hulls using 4.7mm (min) marine-grade aluminum and having a 9m2 (min) total deck space made from 3/16in marine-grade aluminum diamond tread or equivalent equipped with removable railings made of aluminum steel and cushioned plastic molded helm with arms for pilot and two (2) cushioned crew seats including two (2) life rings and two (2) pcs life jackets.	<b>B.6 Utility Boat</b> , with 680kg (min) payload capacity made of two (2) hulls using 4.7mm (min) marine-grade aluminum or steel and having a 9m2 (min) total deck space made from 3/16in marine-grade aluminum diamond tread or equivalent equipped with removable railings made of aluminum steel and cushioned plastic molded helm with arms for pilot and two (2) cushioned crew seats including two (2) life rings and two (2) pcs life jackets.

<b>2<sup>nd</sup> PRE-BID CONFERENCE</b>
<p><b>23 JANUARY 2024</b>                      9:30 A.M.                      Kañao Room</p>
<p><i>Notes: The scheduled Bid Submission / Opening on 23 January 2023 is converted into Pre-Bid Conference.</i></p>

<b>BID SUBMISSION / OPENING</b>	
<b>FROM</b>	<b>TO</b>
<p><b>23 JANUARY 2024</b>                      9:30 A.M.                      Kañao Room</p>	<p><b>06 FEBRUARY 2024</b>                      9:30 A.M.                      Kañao Room</p>

All other terms and conditions shall remain the same. Supplemental for clarifications shall only supersede the affected requirements.

For the information and guidance of all authorized copyholders of the Bid Documents and prospective bidders.

For the Bids and Awards Committee:



**ATTY. MELCHOR P. RIDULME**  
 Vice President, Office of the Legal Counsel  
 and Chairman, Bids and Awards Committee