

**CORRIGENDUM-I****Ref. Tender Notice No.: KOPT/KDS/CIV /T/2407/69** **Date. 09.09.2019****E Tender No. 2019\_KoPT\_501475\_1**

**Name of Work :-** E-tendering for “Monitoring of different selected Environmental Parameters for Air, Noise, Water & Sediment by collecting samples in specified frequency, testing & reporting including allied works for successful completion of work for continuous period of three year at K.P. Docks & N.S. Dock area of Kolkata Dock System.,Kolkata Port Trust.

In connection to the above mentioned Tender Notice following Corrigendum is being issued.

Page Ref.	In place of	To be read as
<b>At Page no. 33 in Technical specification.</b>	Annexure I & II not mentioned or enclosed in the documents	<b>Mentioned/ enclosed below.</b>

**ANNEXURE-I**

**Monitoring of different selected Environmental Parameters for Air, Noise, Water & Sediment by collecting samples in specified frequency, testing & reporting including allied works for successful completion of work for continuous period of three year at K.P. Docks & N.S. Dock area of Kolkata Dock System.,Kolkata Port Trust.**

**Location & Frequency of Monitoring**

Sl. No.	Description	Stations/Locations	Frequency
<b>01</b>	Ambient Air Quality Monitoring- manually operated	Four location	Twice a week for one month in Summer, Monsoon and Winter Season, 24 hourly, at uniform intervals Three time in a year per location
<b>02</b>	Noise	Four locations	Once per month per location
<b>03</b>	Dock Water/River Water	Six Locations	Every three Month in Summer, Monsoon. Post monsoon and Winter Season
<b>04</b>	Drinking Water	Eight Locations	Every three month in Summer, Monsoon. Post monsoon and Winter Season.
<b>05</b>	Monitoring of heavy metal in Dock basin sediment	Two Locations	Every six month in Summer & winter season only.

## ANNEXURE-II

**Monitoring of different selected Environmental Parameters for Air, Noise, Water & Sediment by collecting samples in specified frequency, testing & reporting including allied works for successful completion of work for continuous period of three year at K.P. Docks & N.S. Dock area of Kolkata Dock System.,Kolkata Port Trust.**

### Environmental Parameters to be Monitored

Sl No	Description	Parameters to be Tested
1.	Ambient Air Quality Monitoring	i. PM <sub>10</sub> - 24 hours basis (µg/m <sup>3</sup> ) ii. PM <sub>2.5</sub> - 24 hours basis (µg/m <sup>3</sup> ) iii. SO <sub>2</sub> - 24 hours basis (µg/m <sup>3</sup> ) iv. NO <sub>2</sub> - 24 hours basis (µg/m <sup>3</sup> ) v. CO - 8 hours / 1 hour basis (µg/m <sup>3</sup> )
2.	Noise Level Monitoring in dBA	i. Leq(d) ii. Leq(n) iii. L10 iv. L50 v. L90 vi. Lmax vii. Lmin viii. Ldn
3.	Dock basin & River Water Quality:	i. pH ii. Colour(HZ) iii. Dissolved Oxygen (DO) mg/l iv. Salinity(ppt) v. Turbidity(NTU) vi. Total Dissolved Solid (TDS) mg/l vii. Total Suspended solid (TSS ) mg/l viii. Ammonical Nitrogen mg/l ix. Sulphate mg/l x. Oil & Grease mg/l xi. BOD (20°C for 5 days/27°C for 3days ) mg/l xii. COD mg/l xiii. Total Coliform Organism (MPN/100ml) xiv. Faecal coliform Organism(MPN /100ml)
4.	Drinking Water	i. pH ii. Colour(HZ) iii. Turbidity(NTU) iv. Chloride(As Cl)mg/l v. Residual Chlorine mg/l vi. Total Dissolved Solid (TDS)mg/l xv. Total Coliform Organism (MPN//100ml) xvi. Faecal Coliform Organism(MPN//100ml)
5.	Monitoring of heavy metal in Dock basin sediment	i. Cadmium (As Cd) mg/ 100gm ii. Copper (AS Cu) mg/100gm iii. Hexavalent chromium (As Cr6+ mg/1000 gm iv. Nickel (As Ni)mg/1000gm vi. Zinc(As Zn) mg/1000gm vii. Mercury(As Hg) mg/1000gm

		vii) Lead (As Pb)mg/1000gm viii) Iron(Total) mg/1000gm
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**All other terms & conditions and Clauses will remain same as per original**

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**Sd/-**

**Superintending Engineer**  
**For मुख्य अभियंता/ Chief Engineer**