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NO.F5(6)/EE(C)DR.XI/2018/


Dated : 18.07.2018

Subject : Construction of 564 MLD (124 MGD) WWTP with effluent standards of BOD – 10 mg/l, TSS – 10 mg/l, or better and Power Generation on Design, Build and Operate (one year DLP plus 10 years O&M) basis & demolition of existing Phase-I , II, III and IV WWTPs at Okhla under YAP-III (Package-O).

- JICA Assisted Yamuna Action Plan (YAP-III) Project - ID-P215.

CORRIGENDUM & ADDENDUM NO. 5 to NIT NO. 03 (2017-18)

In reference to above mentioned subject, please find attached herewith the Corrigendum & Addendum No. 5.


18.7.18
(Anil Choudhary)
Executive Engineer (C) DR-XI

Corrigendum & Addendum No. 5

S. No.	Clause reference	Corrigendum & Addendum
1.	Volume-1, Section IV, Functional Guarantees of the Plant, Page 116	Existing matter under "The Bidder shall guarantee the Net Electric Power Consumed based on the following Nominal Design loads:" stands deleted. The revised matter is as per Annexure-1
2.	Volume-1, Section VIII, Particular Conditions, Part B, Specific Provisions, Sub Clause 13.8 Page 143	The Existing component K1 under (A) LABOUR under clause No. 13.8 "K1 =Percentage of labour component as 25% for civil works and 15% for E&M works" stands deleted. The revised component K1 is as under : "K1 =Percentage of labour component as 25% for civil works and 15% for E&M works during Works Contract period and 60% for O&M works during O&M period"
3.	Volume-1, Section VIII, Particular Conditions, Part B, Specific Provisions, Sub Clause 13.8 Page 144	The Existing component K2 under (B) MATERIAL under clause No. 13.8 "K2 =Percentage of material component as 75% for civil works and 85% for E&M works" stands deleted. The revised component K2 is as under : "K2 =Percentage of material component as 75% for civil works and 85% for E&M works during Works Contract period and 40% for O&M works during O&M period"
4.	Corrigendum & Addendum No. 3, S. No. 10	The revised para in C&A 3 "Sludge Quality Standard shall ----- with minimum 65% solids consistency" stands deleted. The revised para is as under: "Sludge Quality Standard shall be- Digested Stabilized Sludge-Class A (bio-solids) as per USEPA 40 CFR Part 503 regulations and further Dried Sludge with solids consistency ranging from 55% to 65%"



ANNEXURE-1

The Bidder shall guarantee the Net Electric Power Consumed based on the following Nominal Design loads:

S No	Parameter	Nomenclature	Units	Nominal Numbers
1	Nominal Design Flow	Qd	M ³ /day	564,000
2	Total Suspended Solids	TSSd	mg/l	400
3	Volatile Suspended Solids / Suspended Solids Ratio	(VSS/ TSS)d	%	70 %
4	BOD	(BOD)d	mg/l	250
5	TKN	(TN)d	mg/l	50

a) Guaranteed Power

The Guaranteed Net Power Consumption shall be guaranteed by the bidder at the Nominal design Flow and design Pollutant load in the following table:

Guaranteed Net Power Consumption under nominal design load (PG)d, Kwhr / day	(PG-F) + (PG-V)d	
Where, (PG-F)	Fixed Part	
(PG-V)d	Variable Part	

b) Guaranteed Net Power Adjustment for Variable Part ((PG-V)d) from Normal Flow & Pollutant Load

In case of variance of flow or pollutant load the guaranteed power shall be evaluated as per the following formula where Power Consumed at reduced load (PG)a will be

$$(PG-V)a = \left\{ \frac{Qa}{Qd} \right\} \times \left\{ \frac{TSSa}{TSSd} \right\} \times \left\{ \frac{VSSa}{TSSa} \right\} / \left\{ \frac{TSSd}{TSSd} \right\} \times \left\{ \frac{VSSd}{TSSd} \right\} \times F1$$

$$+ \left\{ \frac{Qa}{Qd} \right\} \times \left\{ \frac{BODa}{BODd} \right\} / \left\{ \frac{BODd}{BODd} \right\} \times F2 + \left\{ \frac{Qa}{Qd} \right\} \times \left\{ \frac{TKNa}{TKNd} \right\} / \left\{ \frac{TKNd}{TKNd} \right\} \times F3 \times (PG-V)d$$

Where,

Qa=Actual Wastewater Flow (average over immediate past 5 days)

TSS a =Actual Total Suspended Solids (average over immediate past 5 days)

(VSS/TSS)a =Actual Volatile Suspended Solids to Total Suspended Solids (average over immediate past 5 days)

BOD a= Actual BOD Concentration (average over immediate past 5 days)

TKN a = Actual TKN Concentration (average over immediate past 5 days)

The Pollutant Factors are:

F1 = Factor for TSS Pollutant Loading and VSS/ TSS ratio

F2 = Factor for BOD Pollutant Loading

F3 = Factor for TKN Pollutant Loading

The factors applicable shall be as given below:

S No	Parameter	Units		Values of Pollutant Load Factor
1	Nominal Design Flow	M ³ /day		
2	Total Suspended Solids	mg/l	F1	0.45
3	Volatile Suspended Solids / Total Suspended Solids Ratio	%		
4	BOD ₃ Day @ 27 °C	mg/l	F2	0.3
5	TKN	mg/l	F3	0.25

The Bidder's offer shall be evaluated on Net Guaranteed Power only, however during actual operation the Power consumed by bidders shall be calculated according to the above indicated formula and penalties shall be enforceable as per "Section XII – Service Level Agreement, Volume - 3 of Bid Document".