



पत्रांक: 1632 / W-30 / 57

दिनांक: 24/6 /2021

To,

Project Manager,
Kanpur River Management Pvt. Ltd,
Flat No. 101, First Floor,
3/83, Vishnupuri, Kanpur.

Subject: HAM Kanpur-Submission of Billing Schedule/Renovation/Construction Plan for 130 MLD STP Jajmau Facilities.

- Ref.:- 1- STC/PE/KNP/931A/Jajmau dated 22-06-2021.
2- STC/PE/KNP/901/Jajmau dated 14-06-2021.
3- STC/PE/KNP/821/Jajmau dated 07-05-2021.
4- KRMP Letter No. 1297 date 28-05-2021.
5- KRMP Letter No. 1187 date 22-4-2021.

Sir,

Please refer to letter No. STC/PE/KNP/931A/Jajmau dated 22-06-2021 of Shah Technical Consultants, Pvt. Ltd., Kanpur, which is endorsed to you also. Project Engineer (STC) has checked and vetted the "billing schedule/ renovation /construction plan for 130 MLD STP Jajmau facilities" and forwarded to this office for approval. The same has been checked and approved. A copy of approved document is hereby attached and forwarded for further action with the following conditions-

- 1- Renovation plan shall be fortified with bar chart and daily/weekly plan so that progress can be monitored effectively.
- 2- Hydrotesting to be performed for every liquid retaining structure after renovation/new construction.
- 3- Biogas panel to be installed for power generation unit.

Encl:- As above.

Yours' Sincerely

(B.K. Garg)

← General Manager

Copy to the following for information and necessary action-

1. Project Manager-I, Ganga Pollution Control Unit, U.P. Jal Nigam, Kanpur.
2. Project Engineer, NMCG, STC Pvt. Limited. 117/426-14-O Block, Geeta Nagar, Opp. Anurag Hospital, Sharda Nagar, Kanpur- 208025.

General Manager

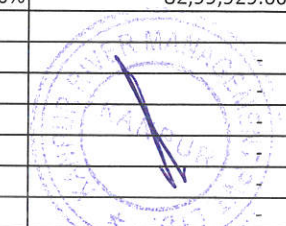
DETAILS OF PAYMENT MILESTONE FOR 130 MLD JAJMAU SITE

Sr. No.	Description of Items	Amount	%	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		2nd Milestone 16th Oct'21 to 15th March'22		3rd Milestone 16th March'22 to 15th June'22		4th Milestone 16th June'22 to 9th Aug'22	
					%	Amount	%	Amount	%	Amount	%	Amount
I	Design & Drawing of STP	96064000										
i.	On approval of BEP		50%	4,80,32,000.00	100%	4,80,32,000.00						
ii.	On approval of design & drawings for Civil works		50%	4,80,32,000.00	25%	1,20,08,000.00	75%	3,60,24,000.00				
II	REHABILITATION/ RENOVATION OF EXISTING STP & IPSs											
A.	Civil Work	259372800										
i.	Retrofication for Collection chamber		2%	51,87,456.00	100%	51,87,456.00						
ii.	Retrofication for Fine Screen Channel(Mechanical)		7%	1,81,56,096.00	35%	63,54,633.60	30%	54,46,828.80	35%	63,54,633.60		
iii.	Retrofication for Fine Screen Channel(Manual)		2%	51,87,456.00	100%	51,87,456.00						
iv.	Retrofication for Grit Chamber		7%	1,81,56,096.00	35%	63,54,633.60	30%	54,46,828.80	35%	63,54,633.60		
v.	Retrofication for Parshall Flume		2%	51,87,456.00	100%	51,87,456.00						
vi.	Retrofication for Distribution Chamber for Primary Clarifier		2%	51,87,456.00	100%	51,87,456.00						
vii.	Retrofication for Primary Sedimentation Tank		7%	1,81,56,096.00	35%	63,54,633.60	30%	54,46,828.80	35%	63,54,633.60		
viii.	Retrofication for Distribution chamber for Aeration Tank		2%	51,87,456.00	100%	51,87,456.00						
ix.	Retrofication for Aeration Tank		7%	1,81,56,096.00	30%	54,46,828.80	35%	63,54,633.60	35%	63,54,633.60		
x.	Retrofication for Distribution Chamber for final Sedimentation Tank		2%	51,87,456.00	100%	51,87,456.00						
xi.	Retrofication for final Sedimentation Tank		7%	1,81,56,096.00	30%	54,46,828.80	35%	63,54,633.60	35%	63,54,633.60		
xii.	Retrofication for Blending Tank		2%	51,87,456.00	100%	51,87,456.00						
xiii.	Retrofication for Gravity Sludge Thickener		7%	1,81,56,096.00		-	50%	90,78,048.00	50%	90,78,048.00		
xiv.	Retrofication for Thickened Sludge Sump		2%	51,87,456.00		-	100%	51,87,456.00		-		-
xv.	Retrofication for Primary Sludge Digester		7%	1,81,56,096.00		-	50%	90,78,048.00	50%	90,78,048.00		-
xvi.	Retrofication for Secondary Digester		3%	77,81,184.00		-	100%	77,81,184.00		-		-
xvii.	Retrofication for Digested Sludge Sump		2%	51,87,456.00		-	100%	51,87,456.00		-		-
xviii.	Retrofication for Gas Holder		2%	51,87,456.00		-	50%	25,93,728.00	50%	25,93,728.00		-
xix.	Retrofication for Return Sludge Sump		2%	51,87,456.00		-	100%	51,87,456.00		-		-
xx.	Retrofication for Centrate/Supernatant Sump		2%	51,87,456.00		-	100%	51,87,456.00		-		-
xxi.	Retrofication for MCC Panel Room		3%	77,81,184.00		-	50%	38,90,592.00	50%	38,90,592.00		-
xxii.	Retrofication for Gas Engine Room		3%	77,81,184.00		-	50%	38,90,592.00	50%	38,90,592.00		-
xxiii.	Retrofication for Return Sludge Pump House		3%	77,81,184.00		-	50%	38,90,592.00	50%	38,90,592.00		-
xxiv.	Retrofication for Thickened Sludge Pumping Station		3%	77,81,184.00		-	50%	38,90,592.00	50%	38,90,592.00		-
xxv.	Retrofication for Digested Sludge Pump Station		2%	51,87,456.00		-	50%	25,93,728.00	50%	25,93,728.00		-
xxvi.	Retrofication for Centrifuge building/belt filter press bldg		4%	1,03,74,912.00		-	50%	51,87,456.00	50%	51,87,456.00		-
xxvii.	Retrofication for Digester Sludge Pumping Station (Building)		2%	51,87,456.00		-	50%	25,93,728.00	50%	25,93,728.00		-
xxviii.	Retrofication for Biogas Compressor Room		2%	51,87,456.00		-		-	50%	25,93,728.00	50%	25,93,728.00
xxix.	Retrofication for Gas Flaring Unit		1%	25,93,728.00		-		-	50%	12,96,864.00	50%	12,96,864.00
xxx.	Retrofication for Cooling Tower		0.5%	12,96,864.00		-		-	50%	6,48,432.00	50%	6,48,432.00
xxxi.	Retrofication for Scrubber Unit		0.5%	12,96,864.00		-		-	50%	6,48,432.00	50%	6,48,432.00
B.	Mechanical Work(Renovation/New Procurement)	259372800										
i.	Mechanical Fine Screen - Supply		3%	77,81,184.00	80%	62,24,947.20		-		-		-
ii.	Mechanical Fine Screen - Installation				7.0%	5,44,682.88	7.0%	5,44,682.88	6%	4,66,871.04		-
iii.	Manual Fine Screen - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
iv.	Manual Fine Screen - Installation				20%	10,37,491.20		-		-		-
v.	Grit Mechanism - Supply		3%	77,81,184.00	80%	62,24,947.20		-		-		-
vi.	Grit Mechanism - Installation				7.00%	5,44,682.88	6.0%	4,66,871.04	7%	5,44,682.88		-
vii.	Primary Clarifier Mechanism - Supply		3%	77,81,184.00		-	80%	62,24,947.20		-		-
viii.	Primary Clarifier Mechanism - Installation					-	9%	7,00,306.56	11%	8,55,930.24		-
ix.	Surface Aerator - Supply		10%	2,59,37,280.00	25%	64,84,320.00	25%	64,84,320.00	30%	77,81,184.00		-
x.	Surface Aerator - Installation				6.5%	16,86,883.84	6.22%	16,11,953.92	7.3%	18,88,233.98		-
xi.	FST Mechanism - Supply		4%	1,03,74,912.00		-	40%	41,49,964.80	40%	41,49,964.80		-
xii.	FST Mechanism - Installation					-			20%	20,74,982.40		-
xiii.	Return Sludge Pumps - Supply		4%	1,03,74,912.00		-	40%	41,49,964.80	40%	41,49,964.80		-
xiv.	Return Sludge Pumps - Installation					-					20%	20,74,982.40
xv.	Gravity Thickener Mechanism - Supply		4%	1,03,74,912.00		-			80%	82,99,929.60		-
xvi.	Gravity Thickener Mechanism - Installation					-					20%	20,74,982.40
xvii.	Digester Feed Pumps - Supply		4%	1,03,74,912.00	60%	62,24,947.20	20%	20,74,982.40		-		-
xviii.	Digester Feed Pumps - Installation					-	20%	20,74,982.40		-		-
xix.	Sludge Digester Mixer - Primary - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xx.	Sludge Digester Mixer - Primary - Installation					-	20%	10,37,491.20		-		-
xxi.	Digester Sludge Recirculation Pump - Supply		2%	51,87,456.00		-	80%	41,49,964.80		-		-
xxii.	Digester Sludge Recirculation Pump - Installation					-					20%	10,37,491.20

Recommended for Approval
 PE PM

Cleared for execution, however this does not absolve the contractor from his contractual liabilities i.e. soundness, stabilities and efficiencies etc of the all structures.

22/6/2021
 Technical Consultant Pvt. Ltd.
 Kannur



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					%	Amount	%	Amount	%	Amount	%	Amount
xxiii.	Digester Sludge Heating System and Ancilliary Equipment-Supply		2%	51,87,456.00		-	80%	41,49,964.80		-		-
xxiv.	Digester Sludge Heating System and Ancilliary Equipment-Installation					-		-		-	20%	10,37,491.20
xxv.	Digested Sludge /Centrifuge Feed Pumps - Supply		2%	51,87,456.00		-	80%	41,49,964.80		-		-
xxvi.	Digested Sludge /Centrifuge Feed Pumps - Installation					-		-	20%	10,37,491.20		-
xxvii.	Centrifuge Machine - Supply /Belt filter press		2%	51,87,456.00		-		-	80%	41,49,964.80		-
xxviii.	Centrifuge Machine - Installation /Belt filter press					-		-		-	20%	10,37,491.20
xxix.	Supertanant Pumps - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxx.	Supertanant Pumps - Installation					-	20%	10,37,491.20		-		-
xxxi.	Gas Scrubber with ancilliary equipment - Supply		2%	51,87,456.00		-		-		-	80%	41,49,964.80
xxxii.	Gas Scrubber with ancilliary equipment - Installation					-		-		-	20%	10,37,491.20
xxxiii.	Gas Engine with ancilliary equipment - Supply		2%	51,87,456.00		-		-		-	80%	41,49,964.80
xxxiv.	Gas Engine with ancilliary equipment - Installation					-		-		-	20%	10,37,491.20
xxxv.	Gas Flaring System - Supply		2%	51,87,456.00		-		-		-	80%	41,49,964.80
xxxvi.	Gas Flaring System - Installation					-		-		-	20%	10,37,491.20
xxxvii.	Agitator for blending tank - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxviii.	Agitator for blending tank - Installation					-		-	20%	10,37,491.20		-
xxxix.	Agitator for Digester Feed Sump - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxx.	Agitator for Digester Feed Sump - Installation					-		-	20%	10,37,491.20		-
xxxxi.	Agitator for Centrifuge Feed Sump - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxxii.	Agitator for Centrifuge Feed Sump - Installation					-		-	20%	10,37,491.20		-
xxxxiii.	Agitator for Poly Dosing Tank - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxxiv.	Agitator for Poly Dosing Tank - Installation					-		-	20%	10,37,491.20		-
xxxxv.	Poly Dosing Pumps - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxxvi.	Poly Dosing Pumps - Installation					-		-	20%	10,37,491.20		-
xxxxvii.	Valves - Supply		4%	1,03,74,912.00		-		-	80%	82,99,929.60		-
xxxxviii.	Valves - Installation					-		-	10%	10,37,491.20	10%	10,37,491.20
xxxxix.	Gates (Open Channel) - Supply		4%	1,03,74,912.00		-		-	80%	82,99,929.60		-
xxxxx.	Gates (Open Channel) - Installation					-		-	10%	10,37,491.20	10%	10,37,491.20
xxxxxi.	Existing Duel Fuel Generators		2%	51,87,456.00		-		-		-	100%	51,87,456.00
xxxxxii.	Gas Holder Dome- Fabrication		2%	51,87,456.00		-		-		-	100%	51,87,456.00
xxxxxiii.	Borewell Pump - Supply		2%	51,87,456.00		-	80%	41,49,964.80		-		-
xxxxxiv.	Borewell Pump - Installation					-		-	20%	10,37,491.20		-
xxxxv.	Service Water Pump - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxxvi.	Service Water Pump - Installation					-	20%	10,37,491.20		-		-
xxxxvii.	Overhead Tank - Supply		2%	51,87,456.00		-		-		-	80%	41,49,964.80
xxxxviii.	Overhead Tank - Erection					-		-		-	20%	10,37,491.20
xxxxix.	Dewatering Pump for Dry well - Supply		2%	51,87,456.00		-	80%	41,49,964.80		-		-
xxxxx.	Dewatering Pump for Dry well - Erection					-	10%	5,18,745.60	10%	5,18,745.60		-
xxxxxi.	Monorail for lifting arrangement - Supply		2%	51,87,456.00	80%	41,49,964.80		-		-		-
xxxxxii.	Monorail for lifting arrangement - Installation					20%	10,37,491.20					-
xxxxxiii.	DI Pipes & Fittings - Supply		2%	51,87,456.00		-	40%	20,74,982.40	40%	20,74,982.40		-
xxxxxiv.	DI Pipes & Fittings - Installation					-		-	20%	10,37,491.20		-
xxxxv.	MS Pipes & Fittings - Supply		2%	51,87,456.00		-	40%	20,74,982.40	40%	20,74,982.40		-
xxxxvi.	MS Pipes & Fittings - Erection					-		-	20%	10,37,491.20		-
xxxxvii.	SS Pipes & Fittings - Supply		2%	51,87,456.00		-	40%	20,74,982.40	40%	20,74,982.40		-
xxxxviii.	SS Pipes & Fittings - Erection					-		-	20%	10,37,491.20		-
xxxxix.	Lab Equipment - Supply		2.0%	51,87,456.00		-		-		-	80%	41,49,964.80
xxxxx.	Lab equipment- Installation					-		-		-	20%	10,37,491.20
xxxxxi.	Testing & Commissioning for Mechanical Items		5%	1,29,68,640.00		-		-		-	100%	1,29,68,640.00
C.	Electrical Work(Renovation/New Procurement)	96064000										
i.	Supply of DP structure		5%	48,03,200.00		-		-		-	80%	38,42,560.00
ii.	Installation of DP structure					-		-		-	20%	9,60,640.00
iii.	Supply of HT Metering Panel		5%	48,03,200.00		-		-		-	80%	38,42,560.00
iv.	Installation of HT Metering Panel					-		-		-	20%	9,60,640.00
v.	Supply of HT VCB panel		10%	96,06,400.00		-		-		-	80%	76,85,120.00
vi.	Installation of HT VCB panel					-		-		-	20%	19,21,280.00
vii.	Supply of Transformer		10%	96,06,400.00	80%	76,85,120.00		-		-		-
viii.	Installation of Transformer					-		-	20%	19,21,280.00		-
ix.	Supply of Main PCC panel		10%	96,06,400.00	80%	76,85,120.00		-		-		-
x.	Installation of Main PCC panel					-		-	20%	19,21,280.00		-
xi.	Supply of Other equipments panel (MCC-2 PANEL)/Bar screen panel/Thickener Panel		10%	96,06,400.00		-		-		-	80%	76,85,120.00

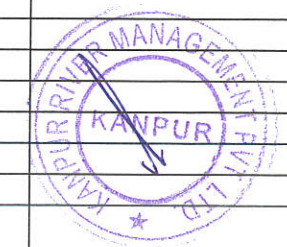
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G.M.



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					%	Amount	%	Amount	%	Amount	%	Amount
xii.	Installation of Other equipments panel (MCC-2 PANEL)/Bar screen panel/Thickener Panel										20%	19,21,280.00
xiii.	Supply of Digester system panel (MCC-3 PANEL)		10%	96,06,400.00							80%	76,85,120.00
xiv.	Installation of Digester system panel (MCC-3 PANEL)										20%	19,21,280.00
xv.	Supply of APFCR panel with AL reactor		5%	48,03,200.00							80%	38,42,560.00
xvi.	Installation of APFCR panel with AL reactor										20%	9,60,640.00
xvii.	Supply of Aerators & Other equipment panel (MCC-1 PANEL)		5%	48,03,200.00							80%	38,42,560.00
xviii.	Installation of Aerators & Other equipment panel (MCC-1 PANEL)										20%	9,60,640.00
xix.	Supply of LPBS for Motors		5%	48,03,200.00							80%	38,42,560.00
xx.	Installation of LPBS for Motors										20%	9,60,640.00
xxi.	Supply of Cable Tray		5%	48,03,200.00							80%	38,42,560.00
xxii.	Installation of Cable Tray										20%	9,60,640.00
xxiii.	Supply of LT Cable		5%	48,03,200.00							80%	38,42,560.00
xxiv.	Installation of LT Cable										20%	9,60,640.00
xxv.	Supply of Street Light Fixture		5%	48,03,200.00							80%	38,42,560.00
xxvi.	Installation of Street Light Fixture										20%	9,60,640.00
xxvii.	Earthing Work		5%	48,03,200.00							100%	48,03,200.00
xxviii.	Testing & Commissioning for Electrical Items		5%	48,03,200.00							100%	48,03,200.00
D.	SUMP CUM PUMP HOUSE (200 MLD)	35063360										
a.	CIVIL WORK											
i.	Excavation		5%	17,53,168.00	100%	17,53,168.00						
ii.	PCC		10%	35,06,336.00	100%	35,06,336.00						
iii.	Raft Foundation/Raft		15%	52,59,504.00			100%	52,59,504.00				
iv.	Column & Beam work		15%	52,59,504.00			100%	52,59,504.00				
v.	Wall 50% of total lift work		15%	52,59,504.00					100%	52,59,504.00		
vi.	Walls (balance 50% of Total Lift work)		15%	52,59,504.00					100%	52,59,504.00		
vii.	Ground Floor Slab		5%	17,53,168.00					100%	17,53,168.00		
viii.	Roof Slab		5%	17,53,168.00					100%	17,53,168.00		
ix.	Brickwork & Plaster		10%	35,06,336.00							100%	35,06,336.00
x.	Finishing Work / Hydrotesting		5%	17,53,168.00							100%	17,53,168.00
b.	MECHANICAL WORK											
	PUMPING SYSTEM	28819200										
(i)	On supply of machinery/equipment at site		80%	2,30,55,360.00					60%	1,38,33,216.00	40%	92,22,144.00
(ii)	On completion of erection works		15%	43,22,880.00							100%	43,22,880.00
(iii)	On completion of Testing of equipment		5%	14,40,960.00							100%	14,40,960.00
	EOT/HOIST WORKS	7685120										
(i)	On supply of machinery/equipment at site		80%	61,48,096.00					100%	61,48,096.00		
(ii)	On completion of erection works		15%	11,52,768.00							100%	11,52,768.00
(iii)	On completion of Testing of equipment		5%	3,84,256.00							100%	3,84,256.00
	ELECTRICAL WORK	6244160										
(i)	On supply of machinery/equipment at site		80%	49,95,328.00					100%	49,95,328.00		
(ii)	On completion of erection works		15%	9,36,624.00							100%	9,36,624.00
(iii)	On completion of Testing of equipment		5%	3,12,208.00							100%	3,12,208.00
E.	Chlorination Tank Area	19212800										
i.	Excavation		3%	4,80,320.00	100%	4,80,320.00						
i.	PCC		5%	9,60,640.00	100%	9,60,640.00						
ii.	RCC Foundation/Raft		8%	14,40,960.00			100%	14,40,960.00				
iii.	Wall 50% of total lift work		10%	19,21,280.00			100%	19,21,280.00				
iv.	Walls (balance 50% of Total Lift work)		10%	19,21,280.00					100%	19,21,280.00		
v.	Baffle Walls work		5%	9,60,640.00					100%	9,60,640.00		
vi.	Brickwork & Plaster		8%	14,40,960.00					100%	14,40,960.00		
ix.	Finishing Work / Hydrotesting		3%	4,80,320.00							100%	4,80,320.00
F.	Chlorination Room Area	0										
i.	Excavation		3%	4,80,320.00	100%	4,80,320.00						
i.	PCC		5%	9,60,640.00	100%	9,60,640.00						
ii.	RCC Foundation/Column Footing		8%	14,40,960.00			100%	14,40,960.00				
iii.	Column & Beam work		10%	19,21,280.00			100%	19,21,280.00				
iv.	Ground Floor Slab		10%	19,21,280.00					100%	19,21,280.00		
v.	Roof Slab		5%	9,60,640.00					100%	9,60,640.00		
vi.	Brickwork		5%	9,60,640.00					100%	9,60,640.00		

Recommended for Approval

DM

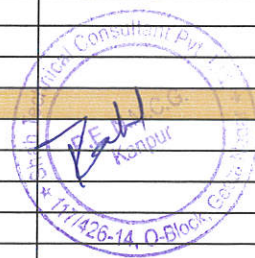
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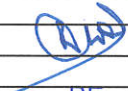
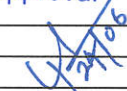
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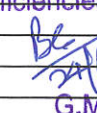
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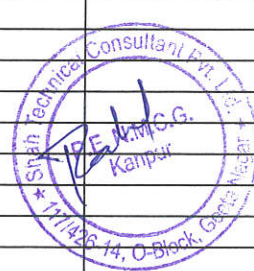
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
Sr. No.	Description of Items	Amount	%	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		2nd Milestone 16th Oct'21 to 15th March'22		3rd Milestone 16th March'22 to 15th June'22		4th Milestone 16th June'22 to 9th Aug'22	
					%	Amount	%	Amount	%	Amount	%	Amount
ix.	Plaster		3%	4,80,320.00		-			100%	4,80,320.00		-
x.	Finishing Work		3%	4,80,320.00		-					100%	4,80,320.00
a.	MECHANICAL WORK											
	CHLORINATION SYSTEM	25937280										
	(i) On supply of machinery/equipment at site		80%	2,07,49,824.00							100%	2,07,49,824.00
	(ii) On completion of erection works		15%	38,90,592.00							100%	38,90,592.00
	(iii) On completion of Testing of equipment		5%	12,96,864.00							100%	12,96,864.00
	HOIST WORKS	4322880										
	(i) On supply of machinery/equipment at site		80%	34,58,304.00					100%	34,58,304.00		
	(ii) On completion of erection works		15%	6,48,432.00							100%	6,48,432.00
	(iii) On completion of Testing of equipment		5%	2,16,144.00							100%	2,16,144.00
	ELECTRICAL & INSTRUMENTATION WORK	7204800										
	(i) On supply of machinery/equipment at site		80%	57,63,840.00					100%	57,63,840.00		
	(ii) On completion of erection works		15%	10,80,720.00							100%	10,80,720.00
	(iii) On completion of Testing of equipment		5%	3,60,240.00							100%	3,60,240.00
III.	RENOVATION WORK for IPS (4 nos) & CSPS (1no)	67244800										
a.i.	Civil Works											
	(i) Nawabganj IPS											
	a. Retrofication of Inlet Chamber		2%	13,44,896.00	100%	13,44,896.00						
	b. Retrofication of Screen Chamber		2%	13,44,896.00	100%	13,44,896.00						
	c. Retrofication of Wet Well		2%	13,44,896.00			100%	13,44,896.00				
	d. Retrofication of Pump House		2%	13,44,896.00			100%	13,44,896.00				
ii.	Mechanical Work(Servicing & Overhauling/New Procurement)											
	(i) Nawabganj IPS											
	a. Supply of Centrifugal Pump		2%	13,44,896.00			80%	10,75,916.80				
	b. Installation of Centrifugal Pump								20%	2,68,979.20		
	c. SS/MS Structural Work - Supply		1%	6,72,448.00			80%	5,37,958.40				
	d. SS/MS Structural Work - Fabrication								20%	1,34,489.60		
	e. Valves and NRV - Supply		2%	13,44,896.00					80%	10,75,916.80		
	f. Valves and NRV - Installation										20%	2,68,979.20
	g. Pipe & Fitting - Supply		1%	6,72,448.00					80%	5,37,958.40		
	h. Pipe & Fittings - Erection										20%	1,34,489.60
	i. Monorail for lifting arrangement - Supply		1%	6,72,448.00	80%	5,37,958.40						
	j. Monorail for lifting arrangement - Installation								20%	1,34,489.60		
	k. Dewatering Pump for dry well - Supply		1%	6,72,448.00	80%	5,37,958.40						
	l. Dewatering Pump for dry well - Installation								20%	1,34,489.60		
iii.	Electrical Work(Servicing & Overhauling/New Procurement)		2%	13,44,896.00		-		-	50%	6,72,448.00	50%	6,72,448.00
iv.	Testing & Commissioning		2%	13,44,896.00		-		-		-	100%	13,44,896.00
b.i.	Civil Works											
	(i) Parmat IPS											
	a. Retrofication of Inlet Chamber		2%	13,44,896.00	100%	13,44,896.00						
	b. Retrofication of Screen Chamber		2%	13,44,896.00	100%	13,44,896.00						
	c. Retrofication of Wet Well		2%	13,44,896.00			100%	13,44,896.00				
	d. Retrofication of Pump House		2%	13,44,896.00			100%	13,44,896.00				
ii.	Mechanical Work(Servicing & Overhauling/New Procurement)											
	(i) Parmat IPS											
	a. Supply of Centrifugal Pump		2%	13,44,896.00			80%	10,75,916.80				
	b. Installation of Centrifugal Pump								20%	2,68,979.20		
	c. SS/MS Structural Work - Supply		1%	6,72,448.00			80%	5,37,958.40				
	d. SS/MS Structural Work - Fabrication								20%	1,34,489.60		
	e. Valves and NRV - Supply		2%	13,44,896.00					80%	10,75,916.80		
	f. Valves and NRV - Installation										20%	2,68,979.20
	g. Pipe & Fitting - Supply		1%	6,72,448.00					80%	5,37,958.40		
	h. Pipe & Fittings - Erection										20%	1,34,489.60
	i. Monorail for lifting arrangement - Supply		1%	6,72,448.00	80%	5,37,958.40						
	j. Monorail for lifting arrangement - Installation								20%	1,34,489.60		
	k. Dewatering Pump for dry well - Supply		1%	6,72,448.00	80%	5,37,958.40						
	l. Dewatering Pump for dry well - Installation								20%	1,34,489.60		
iii.	Electrical Work(Servicing & Overhauling/New Procurement)		2%	13,44,896.00		-		-	50%	6,72,448.00	50%	6,72,448.00
iv.	Testing & Commissioning		2%	13,44,896.00		-		-		-	100%	13,44,896.00
c.i.	Civil Works											

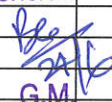
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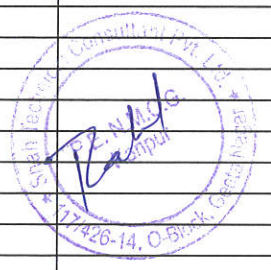
Checked for execution, however this does not absolve the contractor from his contractual liabilities i.e. soundness, stabilities and efficiencies etc of the all structures.
 G.M.



Sr. No.	Description of Items	Amount	%	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		2nd Milestone 16th Oct'21 to 15th March'22		3rd Milestone 16th March'22 to 15th June'22		4th Milestone 16th June'22 to 9th Aug'22	
					%	Amount	%	Amount	%	Amount	%	Amount
	(i) Baba Ghat IPS											
	a. Retrofication of Inlet Chamber		2%	13,44,896.00	100%	13,44,896.00						
	b. Retrofication of Screen Chamber		2%	13,44,896.00	100%	13,44,896.00						
	c. Retrofication of Wet Well		2%	13,44,896.00			100%	13,44,896.00				
	d. Retrofication of Pump House		2%	13,44,896.00			100%	13,44,896.00				
ii.	Mechanical Work(Servicing & Overhauling/New Procurement)											
	(i) Baba Ghat IPS											
	a. Supply of Submersible Pump alongwith Electric Motor		2%	13,44,896.00			80%	10,75,916.80				
	b. Installation of Submersible Pump alongwith Electric Motor								20%	2,68,979.20		
	c. SS/MS Structural Work - Supply		1%	6,72,448.00			80%	5,37,958.40				
	d. SS/MS Structural Work - Fabrication								20%	1,34,489.60		
	e. Valves and NRV - Supply		2%	13,44,896.00					80%	10,75,916.80		
	f. Valves and NRV - Installation										20%	2,68,979.20
	g. Pipe & Fitting - Supply		1%	6,72,448.00					80%	5,37,958.40		
	h. Pipe & Fittings - Erection										20%	1,34,489.60
	i. Monorail for lifting arrangement - Supply		1%	6,72,448.00	80%	5,37,958.40						
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60				
	k. Dewatering Pump for dry well - Supply		1%	6,72,448.00	80%	5,37,958.40						
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60				
iii.	Electrical Work(Servicing & Overhauling/New Procurement)		2%	13,44,896.00		-		-	70%	9,41,427.20	30%	4,03,468.80
iv.	Testing & Commissioning		2%	13,44,896.00		-		-		-	100%	13,44,896.00
d.i.	Civil Works											
	(i) Guptar Ghat IPS											
	a. Retrofication of Inlet Chamber		2%	13,44,896.00	100%	13,44,896.00						
	b. Retrofication of Screen Chamber		2%	13,44,896.00	100%	13,44,896.00						
	c. Retrofication of Wet Well		2%	13,44,896.00			100%	13,44,896.00				
	d. Retrofication of Pump House		2%	13,44,896.00			100%	13,44,896.00				
ii.	Mechanical Work(Servicing & Overhauling/New Procurement)											
	(i) Guptar Ghat IPS											
	a. Supply of Centrifugal Pump		2%	13,44,896.00			80%	10,75,916.80				
	b. Installation of Centrifugal Pump								20%	2,68,979.20		
	c. SS/MS Structural Work - Supply		1%	6,72,448.00			80%	5,37,958.40				
	d. SS/MS Structural Work - Fabrication								20%	1,34,489.60		
	e. Valves and NRV - Supply		2%	13,44,896.00					80%	10,75,916.80		
	f. Valves and NRV - Installation										20%	2,68,979.20
	g. Pipe & Fitting - Supply		1%	6,72,448.00					80%	5,37,958.40		
	h. Pipe & Fittings - Erection										20%	1,34,489.60
	i. Monorail for lifting arrangement - Supply		1%	6,72,448.00	80%	5,37,958.40						
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60				
	k. Dewatering Pump for dry well - Supply		1%	6,72,448.00	80%	5,37,958.40						
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60				
iii.	Electrical Work(Servicing & Overhauling/New Procurement)		2%	13,44,896.00		-		-	50%	6,72,448.00	50%	6,72,448.00
iv.	Testing & Commissioning		2%	13,44,896.00		-		-		-	100%	13,44,896.00
e.i.	Civil Works											
	(i) CSPA - Jajmau											
	a. Retrofication of Inlet Chamber		2%	13,44,896.00	100%	13,44,896.00						
	b. Retrofication of Screen Chamber		2%	13,44,896.00	100%	13,44,896.00						
	c. Retrofication of Wet Well		2%	13,44,896.00			100%	13,44,896.00				
	d. Retrofication of Pump House		2%	13,44,896.00			100%	13,44,896.00				
ii.	Mechanical Work(Servicing & Overhauling/New Procurement)											
	(i) CSPA - Jajmau											
	a. Supply of Centrifugal Pump		2%	13,44,896.00			80%	10,75,916.80				
	b. Installation of Centrifugal Pump								20%	2,68,979.20		
	c. SS/MS Structural Work - Supply		1%	6,72,448.00			80%	5,37,958.40				
	d. SS/MS Structural Work - Fabrication								20%	1,34,489.60		
	e. Valves and NRV - Supply		2%	13,44,896.00					80%	10,75,916.80		
	f. Valves and NRV - Installation										20%	2,68,979.20
	g. Pipe & Fitting - Supply		1%	6,72,448.00					80%	5,37,958.40		
	h. Pipe & Fittings - Erection										20%	1,34,489.60
	i. Monorail for lifting arrangement - Supply		1%	6,72,448.00	80%	5,37,958.40						
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60				
	k. Dewatering Pump for dry well - Supply		1%	6,72,448.00		-	80%	5,37,958.40				
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60				

Recommended for Approval

 PE

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Cleared for execution, however this does not absolve the contractor his contractual liabilities i.e. soundness, stabilities and efficiencies etc of the all structures.

 G.M.



Sr. No.	Description of Items	Amount	%	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		2nd Milestone 16th Oct'21 to 15th March'22		3rd Milestone 16th March'22 to 15th June'22		4th Milestone 16th June'22 to 9th Aug'22	
					%	Amount	%	Amount	%	Amount	%	Amount
	k. Mechanical & Manual Bar Screen - Supply		1%	6,72,448.00	80%	5,37,958.40						
	l. Mechanical & Manual Bar Screen - Installation			-		-	20%	1,34,489.60				
iii.	Electrical Work(Servicing & Overhauling/New Procurement)		1%	6,72,448.00		-		-	51.5%	3,46,214.66	49%	3,26,617.60
iv.	Testing & Commissioning		2%	13,44,896.00		-		-		-	100%	13,44,896.00
IV.	RTOLM WORK for STP ,IPS & CSPS Aea	48032000										
1	STP Aea											
i.	Supply of Local Field Instruments for STP facility		7%	33,62,240.00		-		-	80%	26,89,792.00		-
ii.	Installation of Local Field Instruments for STP facility			-		-		-	20%	6,72,448.00		-
iii.	Supply of Remote Field Instruments for STP facility		7%	33,62,240.00		-		-	80%	26,89,792.00		-
iv.	Installation of Remote Field Instruments for STP facility			-		-		-	20%	6,72,448.00		-
v.	Supply of False Floor at PLC Control Room for STP facility		5%	24,01,600.00		-		-	80%	19,21,280.00		-
vi.	Installation of False Floor at PLC Control Room for STP facility			-		-		-	20%	4,80,320.00		-
vii.	Supply of AC at PLC Control Room for STP facility		2%	9,60,640.00		-		-		-	80%	7,68,512.00
viii.	Installation of AC at PLC Control Room for STP facility			-		-		-		-	20%	1,92,128.00
ix.	Supply of PLC Panel for STP facility		7%	33,62,240.00		-		-		-	80%	26,89,792.00
x.	Installation of PLC Panel for STP facility			-		-		-		-	20%	6,72,448.00
xi.	Supply of AC at RIO Panel Room for STP facility		2%	9,60,640.00		-		-		-	80%	7,68,512.00
xii.	Installation of AC at RIO Panel Room for STP facility			-		-		-		-	20%	1,92,128.00
xiii.	Supply of RIO Panel for STP facility		5%	24,01,600.00		-		-		-	80%	19,21,280.00
xiv.	Installation of RIO Panel for STP facility			-		-		-		-	20%	4,80,320.00
xv.	Supply of UPS & UPS ACDB for STP facility		5%	24,01,600.00		-		-		-	80%	19,21,280.00
xvi.	Installation of UPS & UPS ACDB for STP facility			-		-		-		-	20%	4,80,320.00
xvii.	Supply of Instrument, Control & Bus Cable Work for STP facility		10%	48,03,200.00		-		-		-	80%	38,42,560.00
xviii.	Installation of Instrument, Control & Bus Cable Work for STP facility			-		-		-		-	20%	9,60,640.00
xix.	Testing & Commissioning of PLC & RIO for STP facility		5%	24,01,600.00		-		-		-	100%	24,01,600.00
2	IPS & CSPS Aea											
i.	Supply of Local Field Instruments for IPS & CSPS facility		7.00%	33,62,240.00		-		-	80%	26,89,792.00		-
ii.	Installation of Local Field Instruments for IPS & CSPS facility			-		-		-	13%	4,37,091.20	7%	2,35,356.80
iii.	Supply of Remote Field Instruments for IPS & CSPS facility		7.00%	33,62,240.00		-		-		-	80%	26,89,792.00
iv.	Installation of Remote Field Instruments for IPS & CSPS facility			-		-		-		-	20%	6,72,448.00
v.	Supply of RTU/RIO Panel for IPS & CSPS facility		6.00%	28,81,920.00		-		-		-	80%	23,05,536.00
vi.	Installation of RTU/RIO Panel for IPS & CSPS facility			-		-		-		-	20%	5,76,384.00
vii.	Supply of UPS for IPS & CSPS facility		5.00%	24,01,600.00		-		-		-	80%	19,21,280.00
viii.	Installation of UPS for IPS & CSPS facility			-		-		-		-	20%	4,80,320.00
ix.	Supply of Instrument, Control & Bus Cable Work for IPS & CSPS facility		10.00%	48,03,200.00		-		-		-	80%	38,42,560.00
x.	Installation of Instrument, Control & Bus Cable Work for IPS & CSPS facility			-		-		-		-	20%	9,60,640.00
xi.	Testing & Commissioning of RTU/RIO for IPS & CSPS facility		5.00%	24,01,600.00		-		-		-	100%	24,01,600.00
xii.	Testing & Commissioning of Cloud based RTOLMS facility		5.00%	24,01,600.00		-		-		-	100%	24,01,600.00
V	TRIAL RUN & COMMISSIONING											
1	Trial Run & Commissioning											
		96,06,40,000.00		96,06,40,000.00		24,01,60,000.00		24,01,60,000.00		24,01,60,000.00		24,01,60,000.00

Total Cost	96,06,40,000	100.00%
Design & Drawing Approval	9,60,64,000	10.00%
Civil work Cost for 130 MLD	31,36,48,960	32.65%
Mechanical Work Cost for 130 MLD	32,61,37,280	33.95%
Electrical Work Cost	10,95,12,960	11.40%
Instrumentation Work Cost for 130 MLD, IPS & CSPS	4,80,32,000	5.00%
Work Cost for IPS & CSPS	6,72,44,800	7.00%

1) Renovation period for 15 month, 3 months trial run & commissioning after renovation. During billing activity may interchange but as per above schedule amount to be calculated.

2) variation clause applicable

3) Items/Payments shall be as per relevant clauses of Concessionaire Agreement

