

# NOIDA METRO RAIL CORPORATION LIMITED

CONTRACT NO: NMRC/Projects/NGNEDDC/2025/415

Contract NGNEDDC: Detail Design Consultant (DDC) for Civil, Architectural and E&M works including Traction works for Elevated Sections of Extension Projects of Aqua Line from Noida Sec-51 to Knowledge Park-V, Noida Sec-142 to Botanical Garden & Depot Station to Boraki including augmentation of existing depot and RSS works (31.595 km).

# **VOLUME-4**

# PRICING DOCUMENT

NOIDA METRO RAIL CORPORATION LTD.

Block-III, 3rd Floor, Ganga Shopping Complex,

Sector-29, Noida -201301,

District Gautam Budh Nagar, Uttar Pradesh, India

# PRICING DOCUMENT/ BILL OF QUANTITIES (BOQ)

## PREAMBLE TO THE BOQ

- 1. The Bill of Quantities shall be read in conjunction with Instructions to Tenderers, General and Special Conditions of Contract, Notice Inviting Tender and Scope of Work.
- 2. Schedule 'A' comprises of Design works for Elevated Stations under the heads of Architectural, E&M Detailed Design, Structural Design of the Elevated Stations and Structural Proof Checking of the designs for Viaduct as developed and provided by the Design and Build Contractor and as detailed in the Scope of Work.
- 3. Schedule 'B' comprises of Detailed Design works for Traction, Power Supply, SCADA and RSS as detailed in the Scope of Work.
- 4. Schedule 'C' comprises of Detailed Design works under the heads of Architectural, E&M Detailed Design and Structural Design work for the augmentation of the existing Depot cum workshop & its Ancillary Buildings detailed in the Scope of Work.
- 5. For Schedule 'A', Schedule 'B, Schedule 'C' and Schedule 'D', the general breakup of the tasks to be accomplished for the stage payments are listed in the respective Schedules. Further detailed breakup of the items mentioned in the Schedules are placed in Annexures. The Schedule & Annexures to the Schedule are to be read in conjunction with each other.
- 6. Schedule 'D' comprises of the payment in Man Months for Deployment of Supporting Staff for NMRC to be deployed on the project for a period in months as specified against each position. The deployments of the Staff shall be in spells of one month at a time divided over the duration of the contract, as per the schedule approved by NMRC.
- 7. The payment for deployment of Staff shall be made as per the actual deployment, on the basis of man month rate quoted. If the deployment of the Experts is not made or delayed for whatever reasons, a deduction of 1.5 times the man month rate shall be made for the duration of delay. Further, if the Staff is not deployed as per the agreed schedule and for the agreed duration, a deduction of 1.5 times the man month rate shall be made.
- 8. The man-months rates quoted shall be considered for processing any variations in case the need so arises in the execution of the contract.
- 9. If the tenderer fails to quote rates against any item, the tender may be treated as incomplete and non-responsive and shall be rejected.
- 10. Tenderers shall quote their offer in Indian Rupees (INR) only for Schedule 'A', Schedule 'B', Schedule 'C' and Schedule 'D'.
- 11. Errors will be corrected by the employer for any arithmetic errors in computation or summation as per contract conditions.
- 12. All the unit rates and amounts should be filled only in figures. In case of any discrepancy between amount in figures and in words, the value provided in figures shall be treated as sacrosanct.
- 13. The work executed against the BOQ items would be paid on actual targets achieved basis.

Schedule A - Detailed Design of Elevated Stations and Viaduct

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Sr. No.	Schedule	Description	Percentage Proportions		ions	
			Noida Sec-51 to Knowledge Park-V	Noida Sec-142 to Botanical Garden	Depot Station to Boraki	
1	Schedule A1	Architectural Detailed Design of Stations	4.85%	6.30%	1.80%	
2	Schedule A2	Structural Detailed Design of Stations	11.35%	14.75%	4.15%	
3	Schedule A3	E&M Detailed Design of Stations	5.10%	8.25%	1.80%	
5	Schedule A4	Structural Proof Checking of Viaduct	23.05%	15.55%	3.05%	

#### Annexure - A1

	(Architectural Detailed Design of Stations)						
	Stage Payment in Progress Schedule						
S.	Activity to be Completed	percentage of lump	Cumulative	(Weeks from	Liquidated Damage		
No.	Activity to be completed	sum cost under Item	Payment	Notice to Proceed -	to be imposed if yes		
		No. 1 of Schedule A		Project Wise)			
	Submission of Project Program including						
1	complete list of Deliverables, Schedule of	1.000/	1.000/				
1	Delivery and Mobilization Schedule of Key	1.00%	1.00%	1	-		
	Personnel & Staff						
	Submission of Concept, Design Alternative and						
2		3.00%	4.00%	3	Van		
2	Preliminary Drawings based on tender drawing	3.00%	4.00%	3	Yes		
	review, including modifications if any						
	Delivery of Tender Drawings, Cost Estimates,						
3	BOQ and Tender Documents complete for Civil	2.00%	6.00%	4	Yes		
	Work as per Volume-3 Scope of works						
4	Approval of Preliminary Design Submission	3.00%	9.00%	-	-		
5	Submission of documents to Local Authorities	5.00%	14.00%	12	Yes		
6	Approval of documents by Local Authorities	2.00%	16.00%	-	-		
7	Delivery of First Design Submission including			_	_		
	interchange schemes (As applicable)						
а	Civil	3.00%	19.00%	8	-		
b	Architectural Finishes	2.00%	21.00%	8	-		
8	Approval of First Design Submission including			_	_		
	interchange schemes (As applicable)						
a	Civil	3.00%	24.00%	-	-		
b	Architectural Finishes	2.00%	26.00%	-	-		
9	Delivery and approval of Tender Drawings,			_	_		
	BOQ's, Cost Estimates and Specification						
а	For Signages, Track, S&T contracts etc as per	1.00%	27.00%	8	_		
	Scope of work	2.00/0	27.0070	, and the second			
9	Delivery of Final Design Submission including			_	_		
	interchange schemes						
a	Civil	4.00%	31.00%	16	Yes		
b	Architectural Finishes	4.00%	35.00%	18	Yes		
10	Approval of Final Design Submission including			_	-		
	interchange schemes						
a	Civil	3.00%	38.00%	-	-		
b	Architectural Finishes	3.00%	41.00%	-	-		
11	Issue of "Good For Construction" Drawings			-	-		
				As			
а	Civil	18.00%	59.00%	per approved	Yes		
				program			
b	Architectural Finishes	20.00%	79.00%	As per approved	Yes		
				program			
12	Acceptance of "Originals" and Design Report		00.5557		-		
a	Civil	4.00%	83.00%		-		
b	Architectural Finishes	4.00%	87.00%		-		
13	Approval of "As-Built" Drawings	4.000/	04.000′		-		
a	Civil	4.00%	91.00%		-		
b	Architectural Finishes	4.00%	95.00%		-		
14	Site Visits **	5.00%	100.00%		-		

- 1. Payment shall be made for each station on Pro-rata basis.
- 2. The above is the breakup of Annexure-A1 of Schedule A of financial package.
- 3. Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-A.
- \* Payment for this item shall be made in 16 or more (as required by NMRC) equally distributed installments upon submission of updated Project Programs including complete list of Deliverables, Schedule of Delivery and Mobilization Schedule of Expatriate Consultants.
- \*\*Payment for this item shall be made @ 1.25% per annum, upon submission of 25 site visit reports made by Team Leaders each year.

	Annexure - A2								
	(Structural Design of Stations)								
S. No.	Activity to be Completed	Stage Payment in percentage of lump sum cost under Item No. 3 of Schedule A	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes				
1	Presentation of overall conceptual scheme	3.00%	3.00%	8	Yes				
2	Presentation of Design Alternatives andcomplete programme schedule	2.00%	5.00%						
3	Delivery of First Review Submission	5.00%	10.00%	15	Yes				
4	Approval of First Review Submission by NMRC	5.00%	15.00%						
5	Submission of General Arrangement Drawings for elevated/at grade stations.	5.00%	20.00%	18	Yes				
6	Approval of 5 above by NMRC	5.00%	25.00%	-	-				
7	Submission of Structural Design and Drawings for elevated/at grade stations.	10.00%	35.00%	25	Yes				
8	Submission of Design Softwares and Models	5.00%	40.00%	25	Yes				
9	Approval of 7 & 8 above by NMRC	5.00%	45.00%	-	-				
10	Issue of "Construction Reference Drawings" and "Good for Construction" Drawings	30.00%	75.00%	As per approved programme.	Yes				
11	Submission of 'Originals'	5.00%	80.00%	-	-				
12	Delivery of Final Design Summary Report	5.00%	85.00%	-	-				
13	Interface & Support Activities civil during construction phase (to be paid annually @ 2% per year) including review and changes as per scope of work	10.00%	95.00%	-	-				
14	Preparation & Certification of "As-Built" Drawings/deemed "As-Built" drawings	5.00%	100.00%	-	-				

- 1. Payment shall be made for each station on Pro-rata basis.
- 2. The above is the breakup of Annexure-A2 of Schedule A of financial package.
- 3. Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-A.

## Annexure - A3

	(E&M Detailed Design of Stations)							
S. No.	Activity to be Completed	Stage Payment in percentage of lump sum cost under Item No. 5 of Schedule A	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes			
1	Presentation of Overall Conceptual scheme and Delivery of Preliminary Design Submission including Load Schedules etc.	10.00%	10.00%	8	Yes			
2	Approval of Design Submission by NMRC	5.00%	15.00%	10	-			
3	Final Design Submission	5.00%	20.00%	14	-			
4	Submission of Documents, Models etc to local authorities such as DFS etc, for their approval	5.00%	25.00%	24	-			
5	Approval of Final Design by NMRC	5.00%	30.00%	-	-			
6	Delivery of Tender Drawings, BOQ and Cost Estimates.	7.00%	37.00%	20	Yes			
7	Issue of NOC for Tender Drawings, BOQ and Cost Estimates.	3.00%	40.00%	38	-			
8	Issue of Construction reference Drawings (CRD)	7.00%	47.00%	44	-			
9	Issue of No Objection Certificate to CRD by NMRC	3.00%	50.00%	46	-			
10	Issue of Combined Services Drawings (CSD)- Stage-1	3.50%	53.50%	48	Yes			
11	Issue of No Objection Certificate to CSD by NMRC- Stage-1	1.50%	55.00%	50	-			
12	Issue of Structural Electrical and Mechanical (SEM) and Structural Opening Drawings including wall cutout drawings- Stage-1	3.50%	58.50%	60	Yes			
13	Issue of No Objection Certificate to SEM, SOD and Wall cut out drawings by NMRC Stage-1	1.50%	60.00%	64	-			
14	Issue of CSD after incorporation of WRD's perpared by system wide contractors- Stage-2	3.50%	63.50%	-	-			
15	Issue of No Objection Certificate to CSD after incorporation of WRDs perpared by NMRC-Stage-2	1.50%	65.00%	-	-			
16	Issue of Structural Electrical and Mechanical (SEM) and Structural Opening Drawings including wall cutout drawings after incorportaion of WRD's prepared by system wide contractors- Stage-2	3.50%	68.50%	-	-			
17	Issue of No Objection Certificate to SEM, SOD and Wall cut out after incorporation of WRDs drawings by NMRC-Stage-2	1.50%	70.00%	-	-			
18	Interaction for explanation of Design basis, codes followed, reports & calculations performed using presentations, handouts, site visits & hands on experience on software utilization for NMRC personnel.	5.00%	75.00%	-	-			
19	Construction Support Activities including attending various Site meetings, coordination, review of shop/ working drawings of the contractor's and modifications / revisions to CRD and other drawings as required			-	-			
a)	Review of technical proposals of equipments/materials	4.00%	79.00%	-	-			
b)	Review of design proposals	4.00%	83.00%	-	-			
c)	Review of Working Reference Drawings (WRDs)	4.00%	87.00%	-	-			

d)	Revising/updating Construction Reference Drawings (CRDs)	4.00%	91.00%	-	-
e)	Review of carrying out rate analysis for variation proposals etc.	4.00%	95.00%	-	-
20	Checking of As-built drawings prepared by the Contractor and Submission of Final Revisions of All Documents as "Originals" and Design Report	5.00%	100.00%	1	ı

- 1. Payment shall be made for each station on Pro-rata basis.
- 2. The above is the breakup of Annexure-A3 of Schedule of financial package.
- 3. Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-A.

#### Annexure - A4 (Structural Proof Checking of Viaduct) Stage Payment in **Progress Schedule** percentage of lump (Weeks from Date Cumulative **Liquidated Damage** S. No. **Activity to be Completed** sum cost under Payment of receiving Design to be imposed if yes Item No. 4 of - Project Wise) Schedule A Proof checking of Detailed Structural Designs (Civil) of Elevated Viaduct Substructure, Piling and other related Permanent or Temporary Structures, Entire Super Structure including U-1(A) Girders, special spans of 'Design & Build 60.00% 60.00% 2 Yes Contracts' including all related submissions, value Engineering, reviews of construction scheme and all other items of scope of work till issue of completion certificate. 1(B) Approval of 1(A) above by NMRC 25.00% 85.00% Interface & Support Activities civil during construction phase (to be paid annually @ 2% 10.00% 95.00% per year) including review and changes as per scope of work Preparation & Certification of "As-Built"

#### Note:

3

1. Payment shall be made for each station on Pro-rata basis.

drawings/deemed "As- Built" drawings

- 2. The above is the breakup of Item Annexure-A4 of Schedule A of financial package.
- 3. Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-A.

5.00%

100.00%

Schedule B - Design of Traction (OHE), SCADA and RSS

Sr. No.	Schedule	Description	Percentage Proportions		
			Noida Sec-51 to Knowledge Park-V	Noida Sec-142 to Botanical Garden	Depot Station to Boraki
1	Schedule B1	Power Supply & Distribution system, 25kV OHE Electrification and SCADA system	40.80%	26.40%	5.05%
2	Schedule B2	Design of Receiving Sub-Stations (RSS) and associated Cabling, and Checking of Contractor's submissions for RSS.	14.05%	13.70%	0.00%

## Annexure B1 - Traction Power Supply (OHE), ASS & SCADA

Activity HT1: Detailed Design Consultancy Services for Power Supply & Distribution system, 25 kV OHE Traction Electrification and SCADA system for Noida Metro's 03 Extension Corridors, and Checking of Contractor's submissions.

Activity HT-2: The Simulation study for determination of traction equipment sizing, power requirement, voltage-drop, current, rail voltage, temperature, etc.

S. No.	Activity to be Completed	Stage Payment in % of lump sum amount towards design (Traction & Power Supply portion	Annexure B1 - Traction Power Supply (OHE), ASS & SCADA	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes
1	Mobilization of Project team, Presentation of Inception report including Programme and its acceptance by employer as per Scope of Work		5.00%	2	Yes
	Submission of study report of power supply arrangement including Earthing report & Simulation study as per Scope of Work		15.00%	7	Yes
3	Acceptance of study reports	5.00%	20.00%	9	Yes
4	First Design Submission as per Scope of Work including details required to submit to Ministry of Railways/ Statutory Authorities	5.00%	25.00%	12	Yes
5	Acceptance of First Design Submission	5.00%	30.00%	-	-
6	Final Design Submission including details required for submission to Statutory/ local authorities				
a)	Technical specifications & drawings for the construct tender, BOQ with take-off sheets, initial construction cost estimates with their rate analysis/basis as per scope of work.	10.00%	40.00%	14	Yes
b)	Other details required in submission including details to be submitted to Statutory/local authorities etc.		45.00%	14	Yes
7	Acceptance of final design as per Scope of Work				
a)	Delivery of construction tender documents complete for floating of tender as per Scope of Work	10.00%	55.00%	16	Yes
b)	Completion of process of issue of clarifications/addendums/correction/modificati ons during tender evaluation stage	5.00%	60.00%	21	-
8	Delivery and Submission of documents for construct contractor such as 'Construction Reference Drawings' and 'Good for construction Drawings' as per Scope of Work.	1 20.00%	80.00%	as per approved programme	Yes
9	Extending support during construction period as per Scope of Work**	10.00%	90.00%	-	-
10	Review of As-Built Drawings submitted by the Construcion Contractor and issue of NOC	5.00%	95.00%	-	-
11	Validation of design after commissioning of the system	5.00%	100.00%	-	-

- $1\quad \text{Liquidated damages shall be charged @ 0.05\% per week delay or part of the week from the lump sum rate of Schedule-B.}$
- 2 The above is the breakup of Annexure-B1 of Schedule B of financial package.

	Annexure B2 - RSS						
S. No.	Activity to be Completed	Stage Payment in % of lump sum amount towards design (Traction & Power Supply portion	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)			
1	Submission of Inception Report	5.00%	5.00%				
2	Submission of Study report on RSS location, Grid Sub Station, Cable Layout, Equipment Details, Sizing Calculations, Earthing Calculation etc. as per scope of work	5.00%	10.00%	7	Yes		
3	Acceptance of study reports	5.00%	15.00%	9			
4	First Design Submission as per Scope of Work required for submission to Ministry of Railways / Statutory authorities	10.00%	25.00%	10			
5	Acceptance of First Design Submission	5.00%	30.00%				
6	Final Design Submission including details required for submission to Statutory authorities/ Local Authorities, etc.						
a)	Technical specifications & drawings for the construct tender, BOQ with take-off sheets, initial construction cost estimates with their rate analysis/basis as per scope of work.	10.00%	40.00%	13	Yes		
b)	Other details required in intermediate submission including details to be submitted to Statutory authorities/ local authorities etc.	5.00%	45.00%	13	Yes		
7	Delivery of final design submission as per Scope of Work						
a)	Delivery of construction tender documents complete for floating of tender as per Scope of Work	10.00%	55.00%	17	Yes		
b)	Completion of process of issue of clarifications/addendums/correction/modificati ons during tender evaluation stage	5.00%	60.00%	-	-		
8	Delivery and Submission of documents for construct contractor such as 'Construction Reference Drawings' and 'Good for construction Drawings' as per Scope of Work.	20.00%	80.00%	as per approved programme	Yes		
9	Extending support during construction period as per Scope of Work	10.00%	90.00%				
10	Review of As-Built Drawings submitted by the Construcion Contractor and issue of NOC	5.00%	95.00%	-	-		
11	Validation of design after commissioning of the system	5.00%	100.00%		-		

- 1 Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-B.
- 2 The above is the breakup of Annexure-B2 of Schedule B of financial package.

# **Schedule C - Augmentation of Depot**

Sr. No. Schedule		Description	Percentage Proportions
1	Schedule C1	Architectural Detailed Design Works	25.00%
2	Schedule C2	E&M Detailed Design Works	25.00%
3	Schedule C3	Structural Design Work	50.00%

	Annexure C1 - Architectural Detailed Design Works						
S. No.	Activity to be Completed	Stage Payment inStage Payment in percentage of lump sum cost under Item No. 1 of Schedule A	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes		
1	(a)Presentation and Submission of Preliminary Design Drawings.	5.00%	5.00%	-	Yes		
	(b) Approval of 1(a) above.	5.00%	10.00%	-	-		
2	(a) Preparation and submission of the final design scheme, layout, finishing schedule etc.	5.00%	15.00%	-	-		
	(b) Approval of 2(a) above.	5.00%	20.00%	-	-		
3	(a) Preparation and delivery of tender drawings, BOQs, cost estimates and specifications for Civil and Architectural works of Depot based on tender review.	5.00%	25.00%	-			
	(b) Approval of 3(a) above.	5.00%	30.00%	-	-		
4	(a) Submission of Documents, Models etc to local authorities such as Fire Services etc, for their approval	5.00%	35.00%	14	-		
	(b) Approval from Local Bodies.	5.00%	40.00%		-		
5	(a) Submission of Coordinated Detailed Architectural General Arrangement Drawings, finishing drawings, and details.	10.00%	50.00%	20	Yes		
	(b) Acceptance of 5(a) above	10.00%	60.00%		-		
6	Submission of Depot Signage Scheme along with location layout drawings, graphics, tender drawings and documents, fabrication drawings, BOQs and estimate all complete.	10.00%	70.00%	26	-		
7	Interface and Support Activities during construction (to be paid annually) including review and changes / revisions as per scope of work (4% per year)	20.00%	90.00%		-		
8	Preparation and Certification of As built drawings / Deemed As built drawings	10.00%	100.00%		-		

- $1\quad \hbox{Liquidated damages shall be charged @ 0.05\% per week delay or part of the week from the lump sum rate of Schedule-C.}$
- 2 The above is the breakup of Annexure-C1 of Schedule C of financial package.

Annexure C2 - E&M Detailed Design of Depot

S. No.	Activity to be Completed	Stage Payment in percentage of lump sum cost under Item No. 5 of Schedule A	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes
1	Presentation of Overall Conceptual scheme and Delivery of Preliminary Design Submission including Load Schedules etc.	10.00%	10.00%	8	Yes
2	Approval of Design Submission by NMRC	5.00%	15.00%	12	-
3	Final Design Submission	5.00%	20.00%	16	-
4	Submission of Documents, Models etc to local authorities such as DFS etc, for their approval	5.00%	25.00%	18	-
5	Approval of Final Design by NMRC	5.00%	30.00%	20	-
6	Delivery of Tender Drawings, BOQ and Cost Estimates.	7.00%	37.00%	24	Yes
7	Issue of NOC for Tender Drawings, BOQ and Cost Estimates.	3.00%	40.00%	26	-
8	Issue of Construction reference Drawings (CRD)	7.00%	47.00%	30	-
9	Issue of No Objection Certificate to CRD by NMRC	3.00%	50.00%	34	-
10	Issue of Combined Services Drawings (CSD)- Stage-1	3.50%	53.50%	40	Yes
11	Issue of No Objection Certificate to CSD by NMRC- Stage-1	1.50%	55.00%	44	-
12	Issue of Structural Electrical and Mechanical (SEM) and Structural Opening Drawings including wall cutout drawings- Stage-1	3.50%	58.50%	50	Yes
13	Issue of No Objection Certificate to SEM, SOD and Wall cut out drawings by NMRCStage-1	1.50%	60.00%	56	-
14	Issue of CSD after incorporation of WRD's perpared by system wide contractors- Stage-2	3.50%	63.50%	-	-
15	Issue of No Objection Certificate to CSD after incorporation of WRDs perpared by NMRC-Stage-2	1.50%	65.00%	-	-
16	Issue of Structural Electrical and Mechanical (SEM) and Structural Opening Drawings including wall cutout drawings after incorportaion of WRD's prepared by system wide contractors- Stage-2	3.50%	68.50%	-	-
17	Issue of No Objection Certificate to SEM, SOD and Wall cut out after incorporation of WRDs drawings by NMRC- Stage-2	1.50%	70.00%	-	-
18	Interaction for explanation of Design basis, codes followed, reports & calculations performed using presentations, handouts, site visits & hands on experience on software utilization for NMRC personnel.	5.00%	75.00%	-	-
19	Construction Support Activities including attending various Site meetings, coordination, review of shop/ working drawings of the contractor's and modifications / revisions to CRD and other drawings as required			-	-

a)	Review of technical proposals of equipments/materials	4.00%	79.00%	-	-
b)	Review of design proposals	4.00%	83.00%	-	-
c)	Review of Working Reference Drawings (WRDs)	4.00%	87.00%	-	-
d)	Revising/updating Construction Reference Drawings (CRDs)	4.00%	91.00%	-	-
e)	Review of carrying out rate analysis for variation proposals etc.	4.00%	95.00%	-	-
20	Checking of As-built drawings prepared by the Contractor and Submission of Final Revisions of All Documents as "Originals" and Design Report		100.00%	-	-

- 1 Liquidated damages shall be charged @ 0.05% per week delay or part of the week from the lump sum rate of Schedule-C.
- 2 The above is the breakup of Annexure-C2 of Schedule C of financial package.

Annexure	C3 ·	- Structura	l Design	of Depot

S. No.	Activity to be Completed	Stage Payment in percentage of lump sum cost under Item Part III of Schedule B	Cumulative Payment	Progress Schedule (Weeks from Notice to Proceed - Project Wise)	Liquidated Damage to be imposed if yes
1	Conceptual / Preliminary submission, Program and it's approval.	5.00%	5.00%	12	Yes
2	Delivery of First Review Submission, Drawings, BOQs, Cost Estimates and Specifications for Civil, Structural and utility works based on Tender review.	15.00%	20.00%	15	Yes
2	Approval of First Review Submission	10.00%	30.00%		
3	Presentation and STAAD Model Delivery	5.00%	35.00%	18	Yes
4	Delivery of Final Review Submission	5.00%	40.00%	20	Yes
5	Issue of "Good For Construction" Drawings	30.00%	70.00%	As per approved program	Yes
6	Submission of "Originals"	10.00%	80.00%	-	-
7	Delivery of Final Design Summary Report	5.00%	85.00%	-	-
8	Construction support activities during construction.	10.00%	95.00%	-	-
7	Review and Acceptance of "As Built Drawings"	5.00%	100.00%	-	-

- $1\quad \text{Liquidated damages shall be charged @ 0.05\% per week delay or part of the week from the lump sum rate of Schedule-C.}$
- 2 The above is the breakup of Annexure-C3 of Schedule C of financial package.

Schedule	D - Deplo	vment of 9	Supporting	Staff

omeans a person or outper miles and				
Sr. No.	Schedule	Description	Percentage Proportions	
1	Schedule D1	Deployment of Supporting Staff	100.00%	

Annexure D1	- Deployment	t of Supporting Staff	
Willievale DT	- Debiovillell	. OI JUDDOI LIIIE JLAII	

S. No.	Description	Man-Months Deployment	Payment Percentage	Cummulative Payment Percentage
1	Architect	96	31.00%	
2	Document Controller	96	16.00%	
3	CAD Operator	48	10.50%	100%
4	Surveyor	48	11.50%	
5	Design Cordinator	96	31.00%	

#### Note:

1

The payment for deployment of Staff shall be made as per the actual deployment, on the basis of man month rate quoted. If the deployment of the Experts is not made or delayed for whatever reasons, a deduction of 1.5 times the man month rate shall be made for the duration of delay. Further, if the Staff is not deployed as per the agreed schedule and for the agreed duration, a deduction of 1.5 times the man month rate shall be made.

Example - In case of absence of Architect for 'X' days, the penalty will be calculated as below -

#### Deduction =

1.5 x ('X' days)/((days in that particular month) x (96 month)) x 31% (i.e., Payment Percentage in case of Architecht x (Amount Quoted by Bidder in Schedule D)

## **Notes to Pricing Document:**

1. For "On Account Stage Payment" further distribution of payment for civil structure, civil architecture, architecture finishing and Building Services within each item and for each station shall be done by the Engineer on award of work based on volume of work in different activities in any item.

2. The Key Dates are defined for the major critical tasks to be carried out by Consultant based on the Stage Payments for each item of Payment Schedule enclosed with the Letter of Acceptance, as approved and accepted by Employer. The Liquidated Damages shall be charged at a rate of 0.05% per week of delay or part of the week from the lump sum rate of the Contract for respective components as provided in above payment schedules. The maximum limit of liquidated damages shall be 10% of the total Contract Value or revised Contract Value as notified by the employer to the consultant.